Notations :

1.Options shown in green color and with ✔ icon are correct.

2.Options shown in red color and with ✖ icon are incorrect.

Paper Id	Paper Name
20996311	TS ICET 2024 5th June 2024 Shift 2

Question Paper Name:	TS ICET 2024 5th June 2024 Shift 2
Subject Name:	TS ICET 2024
Creation Date:	2024-06-03 11:57:45
Number of Questions:	200
Total Marks:	200
Display Marks:	Yes
Share Answer Key With Delivery Engine:	Yes
Actual Answer Key:	Yes
Calculator:	None
Magnifying Glass Required?:	No
Ruler Required?:	No
Eraser Required?:	No
Scratch Pad Required?:	No
Rough Sketch/Notepad Required?:	No
Protractor Required?:	No
Show Watermark on Console?:	Yes
Highlighter:	No
Auto Save on Console?	Yes
Question Type For Auto Save	MCQ,COMPREHENSION
Change Font Color?:	No
Change Background Color?:	No
Change Theme?:	No
Help Button?:	No
Show Reports?:	No
Show Progress Bar?:	No
Show hint in candidate console:	No

TS ICET 2024

Group Number :	1
Group Id :	20996311
Group Maximum Duration :	0
Group Minimum Duration :	150
Show Attended Group? :	No
Edit Attended Group? :	No
Break time:	0
Group Marks:	200

Is this Group for Examiner?: No

Show Progress Bar?: No

Navigate To Group Summary From Last Question?: No

Disable Submit Button During Assessment?: No

Analytical Ability

Section Id : 20996331

Section Number : 1

Section type : Online

Mandatory or Optional: Mandatory

Number of Questions to be attempted: 45

Section Marks: 75

Maximum Instruction Time : 0

Sub-Section Number: 1

Sub-Section Id: 209963231

Question Shuffling Allowed : No

Question Id : 2099632081 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Question Numbers : (1 to 20)

SECTION - A : ANALYTICAL ABILITY
1. Data Sufficiency   దత్తాంశ పర్యాప్తత

Note: In questions numbered from 1 to 20, a question is followed by data in the form of two statements labelled as (I) and (II). You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

(a) Mark choice (1) if the statement (I) alone is sufficient to answer the question.

(b) Mark choice (2) if the statement (II) alone is sufficient to answer the question.

(c) Mark choice (3) if both the statements (I) and (II) are sufficient to answer the question but neither statement alone is not sufficient.

(d) Mark choice (4) if both the statements (I) and (II) together are not sufficient to answer the question and additional data are required.

సూచన: 1 నుండి 20 వరకు ఇచ్చిన ప్రతి ప్రశ్నలోను ఒక ప్రశ్న, దాని క్రింద (I), (II) అని గుర్తులు గల రెండు ప్రవచనాలు దత్తాంశంగా ఇవ్వబడ్డాయి. ఇచ్చిన దత్తాంశాన్ని ఉపయోగించి, ఇచ్చిన ప్రవచనాలు ప్రశ్నకు సమాధానాన్ని ఇచ్చేందుకు పర్యాప్తాలు అవుతాయా అని మీరు నిర్ధారించాలి. ఈ నిర్ధారణకు క్రింది మార్గదర్శక సూత్రాలు ఉపయోగించి (1) నుండి (4) వరకు సరైన జవాబును ఎంపిక చేయండి.

(a) ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం (I) మాత్రమే పర్యాప్తమయి (II) చే సమాధానమివ్వలేకపోతే మీ జవాబు (1) గా గుర్తించండి.

(b) ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం (II) మాత్రమే పర్యాప్తమయి, (I) చే సమాధానమివ్వలేకపోతే మీ జవాబు (2) గా గుర్తించండి.

(c) ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం (I), (II) కలిసి పర్యాప్తమయి అందులో ఏ ఒక్కటి కూడా పర్యాప్తం కాకపోతే మీ జవాబు (3) గా గుర్తించండి.

(d) ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం (I), (II) కలిసి కూడా పర్యాప్తం కాక అదనపు దత్తాంశం అవసరమైతే మీ జవాబు (4) గా గుర్తించండి.

Sub questions

Question Number : 1 Question Id : 2099632082 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
1. Data Sufficiency

దత్తాంశ పర్యాప్తత

What is the positive value of ab?

ab యొక్క ధనాత్మక విలువ ఎంత ?

(I) $a - b = 10$

(II) $a^2 = 4$

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 2 Question Id : 2099632083 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

What is the number of elements in the set $(A - B) \cup (B - A)$?

సమితి $(A - B) \cup (B - A)$ లో మూలకాల సంఖ్య ఎంత ?

(I)   The number of elements in $A \cap B^c$ is 10

$A \cap B^c$ లోని మూలకాల సంఖ్య 10

(II)   The number of elements in B is 15.

B లోని మూలకాల సంఖ్య 15.

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

**Question Number : 3 Question Id : 2099632084 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None**
Correct Marks : 1 Wrong Marks : 0

Let A and B be any two non empty disjoint sets. What is the value of $n(B)$?

A, Bలు రెండు శూన్యేతర వియుక్త సమితులు అయినపుడు, $n(B)$ విలువ ఎంత?

(I) $n(A \cap B^c) = 10$

(II) $n((A \cup) - (A \cap B)) = 15$

Options :

1. ✓ 1

2. * 2

3. * 3

4. * 4

Question Number : 4 Question Id : 2099632085 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
    1. Data Sufficiency   దత్తాంశ పర్యాప్తత

What is the volume of the cone?

ఆ శంఖువు ఘన పరిమాణం ఎంత ?

(I)   The cone's surface area is 2210 sq. cm.

        ఆ శంఖువు యొక్క ప్రక్కతల వైశాల్యం 2210 చ.సెం.మీ.

(II)   The cone and cylinder have same height and radius.

        ఆ శంఖువు, స్థూపం లు ఒకే ఎత్తు, వ్యాసార్థాలను కలిగి ఉన్నాయి.

Options :

1. ✔ 1

2. * 2

3. * 3

4. * 4

Question Number : 5 Question Id : 2099632086 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

Let $P(x)$ be a polynomial. Is $(x + 1)$ a factor of $P(2x^2 + x + 8)$?

$P(x)$ అనేది ఒక బహుపది అయితే, $P(2x^2 + x + 8)$ నకు $(x + 1)$ ఒక కారణాంకం అవుతుందా ?

   (I) $(x - 9)$ is a factor of $P(x)$.

        $P(x)$నకు $(x - 9)$ ఒక కారణాంకం.

   (II) $(x + 9)$ is a factor of $P(x)$.

        $P(x)$ నకు $(x + 9)$ ఒక కారణాంకం.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 6 Question Id : 2099632087 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
1. Data Sufficiency   దత్తాంశ పర్యాప్తత

Find the triad (x, y, z) of natural numbers.

సహజ సంఖ్యల త్రికము (x, y, z) ను కనుక్కోండి.

(I) $x + y + z = 7$

(II) $x = 3y = 6z$

Options :

1. ✔ 1

2. ✷ 2

3. ✷ 3

4. ✷ 4

The students in a class want to celebrate a party. How much did each contribute?

ఒక తరగతిలోని విద్యార్థులు ఒక పార్టీ జరుపుకుందామనుకుంటారు. ఒక్కొక్కరు ఎంత చెల్లించాల్సి ఉంటుంది.

(I)   Each student contributes as many rupees as the number of students in the class.

ప్రతీ విద్యార్థి, తమ తరగతిలో ఎంత మంది విద్యార్థులు ఉంటారో, అంతే మొత్తం రూపాయలు చెల్లిస్తాడు.

(II)   The total contribution is Rs.1111.

మొత్తం జమ అయ్యింది రూ. 1111.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 8 Question Id : 2099632089 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

Find the number of terms in the series.

ఆ శ్రేణిలోని పదాల సంఖ్య కనుక్కోండి.

(I)   The series is the series of first few odd natural numbers whose sum is 196.

ఆ శ్రేణి ఏదంటే, అది మొదటి కొన్ని బేసి సహజ సంఖ్యల మొత్తం 196 అయ్యేట్లుగా ఉంది.

(II)   The first term of the series is 1.

ఆ శ్రేణి లోని మొదటి పదం 1.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 9 Question Id : 2099632090 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

Find the four digit perfect square number.

నాలుగు అంకెల సంపూర్ణ వర్గ సంఖ్యను కనుక్కోండి.

(I)   The number leaves the remainder 2 when divided by 4.

       ఆ సంఖ్యను 4 చే భాగిస్తే వచ్చు శేషం 2.

(II)   The number is odd.

       ఆ సంఖ్య బేసి సంఖ్య.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 10 Question Id : 2099632091 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

What is the average weight of 40 persons?

40 మంది వ్యక్తుల బరువుల సరాసరి ఎంత ?

    (I)   The average weight of 10 persons is 55 kgs.

           10మంది వ్యక్తుల సరాసరి బరువు 55 కి.గ్రా.

    (II)   The average weight of 30 persons is 50 kgs.

           30 మంది వ్యక్తుల సరాసరి బరువు 50 కి.గ్రా.

Options :

1. ✔ 1

2. ✳ 2

3. ✳ 3

4. ✳ 4

Question Number : 11 Question Id : 2099632092 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
1. Data Sufficiency   దత్తాంశ పర్యాప్తత

What is the two digit number?

ఆ రెండంకెల సంఖ్య ఏది?

(I)   The difference of two digits of the number is 4.

       ఆ సంఖ్యలోని రెండంకెల భేదం 4

(II)   The two digit number is divisible by 4.

       ఆ రెండంకెల సంఖ్య 4 తో భాగించబడుతుంది.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 12 Question Id : 2099632093 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

With what day the year X ends?

సంవత్సరం X అనేది ఏ రోజుతో ముగుస్తుంది?

(I)   X is a leap year.

X ఒక లీపు సంవత్సరం.

(II)   The year X begins with Saturday.

X సంవత్సరం శనివారంతో మొదలొతుంది.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 13 Question Id : 2099632094 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

Find the sum of squares of the two natural numbers.

ఆ రెండు సహజ సంఖ్యల వర్గాల మొత్తం ను కనుక్కోండి.

(I)   The sum of those two numbers when added to their product, the result is 208.

    ఆ రెండు సంఖ్యల మొత్తాన్ని వాటి లబ్దానికి కలుపగా 208 అవుతుంది.

(II)   The numbers are greater than 2.

    ఆ సంఖ్యలు 2 కన్న పెద్దవి.

Options :

1. ✔ 1

2. ✱ 2

3. ✱ 3

4. ✱ 4

Question Number : 14 Question Id : 2099632095 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
1. Data Sufficiency   దత్తాంశ పర్యాప్తత

Is quadrilateral $ABCD$ a square?

చతుర్భుజం $ABCD$ ఒక చతురస్రం అవుతుందా ?

(I) $ABCD$ is a rectangle.

     $ABCD$ ఒక దీర్ఘ చతురస్రం.

(II) $AB = BC$.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Find the area of the circle C.

C అనే వృత్తం యొక్క వైశాల్యం ఎంత.

(I)   The side of the regular hexagon H inscribed in the circle has length of 10 cm.

వృత్తం C లో అంతర్లిఖించ బడిన క్రమషడ్బుజి H యొక్క ఏదేని అంచు పొడవు 10 సెం.మీ.

(II)   Radius of the circle C is less than the side of hexagon H.

వృత్తం C యొక్క వ్యాసార్ధం, పొడవు, షడ్బుజి H యొక్క భుజం పొడవు కన్నా తక్కువ.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 16 Question Id : 2099632097 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

What is the value of $3^a \cdot 27^b$?

$3^a \cdot 27^b$ విలువ ఎంత ?

(I) $a = 3b$

(II) $a = -3b$

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 17 Question Id : 2099632098 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

Let a, b be any two natural numbers. Is a odd?

a, b లను ఏవేని రెండు సహజ సంఖ్యలుగా గైకొనుము. a ఒక బేసి సంఖ్య అవుతుందా?

(I) $a + b$ is odd.

      $a + b$ ఒక బేసిసంఖ్య.

(II) b is an odd number.

      b ఒక బేసిసంఖ్య.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 18 Question Id : 2099632099 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
1. Data Sufficiency   దత్తాంశ పర్యాప్తత

Find the middle number of 11 consecutive odd numbers.

11 వరుస బేసి సంఖ్యల మధ్యనున్న సంఖ్యను కనుక్కోండి.

(I)   The sum of those odd consecutive numbers is 143.

        ఆ వరుస బేసి సంఖ్యల మొత్తం 143.

(II)   9 is a number among them.

        వాటిలో ఒక సంఖ్య 9.

Options :

1. ✔ 1

2. ✷ 2

3. ✷ 3

4. ✷ 4

Question Number : 19 Question Id : 2099632100 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

1. Data Sufficiency దత్తాంశ పర్యాప్తత

Are x, y and z are in geometric progression?

x, y, z లు గుణశ్రేడి లో ఉన్నాయా?

(I) $y^2 = zx$

(II) $2x, 3y, 4z$ are in arithmetic progression.

$2x, 3y, 4z$ లు అంకశ్రేడిలో ఉన్నాయి.

Options :

1. ✔ 1

2. ✺ 2

3. ✺ 3

4. ✺ 4

SECTION - A : ANALYTICAL ABILITY
1. Data Sufficiency దత్తాంశ పర్యాప్తత

Is the real number x at a distance less than 3 from 4?

x అనే వాస్తవ సంఖ్య 4 నుండి 3 కన్న తక్కువ దూరంలో ఉందా?

(I) x is at a distance greater than 3 from -2.

-2 నుండి x అనేది 3 కన్న ఎక్కువ దూరంలో ఉంది.

(II) x is at a distance less than 4 from 3.

x అనేది 3 నుండి 4 కన్న తక్కువ దూరంలో ఉంది.

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Sub-Section Number:	2
Sub-Section Id:	209963232
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 2099632102 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving   సమస్యా సాధన

A. Series (Analogies/a:b::c:d relationships)   శ్రేణులు

$$\frac{5}{DF} : 52 \ :: \ \frac{9}{HJ} : \underline{\quad\quad}$$

(1)   250

(2)   164

(3)   149

(4)   81

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving — సమస్యా సాధన

A. Series (Analogies/a:b::c:d relationships) — శ్రేణులు

AKN : MJB :: CLR : _____

   (1)   PKE

   (2)   QMD

   (3)   QKD

   (4)   PKF

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 23 Question Id : 2099632104 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
2. Problem Solving   సమస్యా సాధన

A. Series (Analogies/a:b::c:d relationships)   శ్రేణులు

BE : 94 :: _____ : CF

- (1)   63
- (2)   18
- (3)   61
- (4)   46

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 24 Question Id : 2099632105 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving సమస్యా సాధన

A. Series (Analogies/a:b::c:d relationships) శ్రేణులు

TAP : 73 :: ICE : _____

(1) 72

(2) 73

(3) 71

(4) 68

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

SECTION - A : ANALYTICAL ABILITY
2. Problem Solving   సమస్యా సాధన

A. Series (Analogies/a:b::c:d relationships)   శ్రేణులు

DOG : 13 :: CAT : _____

- (1)   14
- (2)   12
- (3)   15
- (4)   16

Options :

1. ✔ 1

2. ✶ 2

3. ✶ 3

4. ✶ 4

Question Number : 26 Question Id : 2099632107 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

2. Problem Solving   సమస్యా సాధన

A. Series (Analogies/a:b::c:d relationships)   శ్రేణులు

CHETAN : AECHTN :: KAMBLI : _____

(1) LMKABI

(2) LMKIAB

(3) LMKIBA

(4) LKMIBA

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 27 Question Id : 2099632108 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving   సమస్యా సాధన

A. Series (Analogies/a:b::c:d relationships)   శ్రేణులు

ACD (24) : EFF (51) :: IIH (78) : _____

(1)   MLJ (105)

(2)   MJL (105)

(3)   LMJ (105)

(4)   LJM (105)

1. ✔ 1

2. ✶ 2

3. ✶ 3

4. ✶ 4

Question Number : 28 Question Id : 2099632109 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

    2. Problem Solving   సమస్యా సాధన

    A. Series (Analogies/a:b::c:d relationships)   శ్రేణులు

D10I : 05I10 :: R15X : _____

(1) 18M24

(2) 19N23

(3) 19N25

(4) 18N24

Options :

1. ✔ 1

2. ✶ 2

3. ✶ 3

4. ✶ 4

Question Number : 29 Question Id : 2099632110 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving   సమస్యా సాధన

A. Series (Analogies/a:b::c:d relationships)   శ్రేణులు

W1024 : U144 :: S8281 : Q_____

(1) 5011

(2) 5021

(3) 5031

(4) 5041

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 30 Question Id : 2099632111 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving సమస్యా సాధన

A. Series (Analogies/a:b::c:d relationships) శ్రేణులు

MXN : 13X12 :: FXR : _____

(1)   5X17

(2)   14X15

(3)   20X8

(4)   7X19

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number:	3
Sub-Section Id:	209963233
Question Shuffling Allowed :	Yes

Question Number : 31 Question Id : 2099632112 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving

A. Series (Odd things out)

సమస్యా సాధన

శ్రేణులు

A3, D6, I11, P18, S21, Y27

(1) D6

(2) Y27

(3) S21

(4) A3

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving సమస్య సాధన

A. Series (Odd things out) శ్రేణులు

$$\frac{2}{10}, \frac{7}{17}, \frac{14}{26}, \frac{23}{37}, \frac{34}{50}, \frac{47}{65}, \frac{62}{84}$$

(1) $\frac{23}{37}$

(2) $\frac{62}{84}$

(3) $\frac{7}{17}$

(4) $\frac{34}{50}$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 33 Question Id : 2099632114 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving   సమస్యా సాధన

A. Series (Odd things out)   శ్రేణులు

13, 19, 21, 29, 37, 49, 60

(1)   13

(2)   37

(3)   49

(4)   60

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

2. Problem Solving   సమస్యా సాధన

A. Series (Odd things out)   శ్రేణులు

$(3, 6, 3), (4, 9, 1), (5, 12, 1), (6, 14, 2), (8, 19, 1), (9, 39, 3), (10, 43, 3)$

(1)   (10, 43, 3)

(2)   (8, 19, 1)

(3)   (6, 14, 2)

(4)   (3, 6, 3)

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 35 Question Id : 2099632116 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving   సమస్యా సాధన

A. Series (Odd things out)   శ్రేణులు

ALGERIA, BANGKOK, SPAIN, FRANCE, ROME, GERMANY, HANOI

(1)   SPAIN

(2)   ROME

(3)   HANOI

(4)   BANGKOK

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 36 Question Id : 2099632117 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

శ్రేణులు

7, 15, 26, 40, 57, 77, 100, _____.

(1) 146

(2) 116

(3) 136

(4) 126

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 37 Question Id : 2099632118 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

శ్రేణులు

$0, -1, 0, 3, 8, 15, 24,$ _____

    (1)   35

    (2)   31

    (3)   27

    (4)   29

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - A : ANALYTICAL ABILITY
A. Series (Missing numbers in sequence or series)
శ్రేణులు

(2, 3), (4, 6), (7, 11), (12, 18), _____, (30, 42), (43, 59)

   (1)   (19, 27)

   (2)   (17, 23)

   (3)   (19, 29)

   (4)   (17, 29)

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 39 Question Id : 2099632120 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
A. Series (Missing numbers in sequence or series)
శ్రేణులు

$$114\frac{2}{7}, 116\frac{4}{6}, 120, 125, 133\frac{1}{3}, \_\_\_\_, 200$$

   (1)   175

   (2)   165

   (3)   125

   (4)   150

Options :

1. ✔ 1

2. ✖ 2

3. ✶ 3

4. ✶ 4

Question Number : 40 Question Id : 2099632121 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

శ్రేణులు

1, 4, 27, 16, 125, _____, 343, 64

(1)   30

(2)   25

(3)   36

(4)   40

Options :

1. ✔ 1

2. ✶ 2

3. ✶ 3

4. ✶ 4

Question Number : 41 Question Id : 2099632122 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

శ్రేణులు

(3, 5), (5, 7), (11, 13), (17, 19), (29, 31), _____, (59, 61)

(1) (41, 43)

(2) (39, 41)

(3) (57, 59)

(4) (37, 39)

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 42 Question Id : 2099632123 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

A. Series (Missing numbers in sequence or series)

శ్రేణులు

$$\frac{\sqrt{3}}{2}, \frac{1}{\sqrt{2}}, \frac{1}{2}, \frac{\sqrt{3}-1}{2\sqrt{2}}, 0, \frac{1-\sqrt{3}}{2\sqrt{2}}, \underline{\hspace{2cm}}$$

(1) $-\frac{1}{2}$

(2) $-\frac{1}{\sqrt{2}}$

(3) $\frac{1}{\sqrt{2}}$

(4) $\frac{1}{2}$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 43 Question Id : 2099632124 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
A. Series (Missing numbers in sequence or series)
శ్రేణులు

71, 70, 73 72, 77, 74, 83, _____.

(1) 72

(2) 74

(3) 76

(4) 78

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - A : ANALYTICAL ABILITY
A. Series (Missing numbers in sequence or series)
శ్రేణులు

$$4, \frac{19}{2}, 26, \frac{101}{2}, 123, \frac{343}{2}, 292, \underline{\quad}$$

(1) $\dfrac{701}{2}$

(2) $\dfrac{729}{2}$

(3) $\dfrac{643}{2}$

(4) $\dfrac{697}{2}$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 45 Question Id : 2099632126 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
A. Series (Missing numbers in sequence or series)
శ్రేణులు

8, 24, 12, 36, 18, 54, _____, 81.

(1) 23

(2) 25

(3) 27

(4) 30

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - A : ANALYTICAL ABILITY
2. Problem Solving   సమస్యా సాధన
B. Data Analysis   దత్తాంశ విశ్లేషణ

The following table shows the number of three products P_1, P_2, P_3 sold by five different shops A, B, C, D and E.

ఈ క్రింది పట్టికలో ఐదు దుకాణాలు A, B, C, D మరియు E లచే అమ్మబడిన మూడు ఉత్పత్తులు P_1, P_2, P_3 ల సంఖ్యను సూచిస్తుంది.

Shop దుకాణం	P_1	P_2	P_3
A	420	540	612
B	360	720	420
C	540	600	510
D	720	480	300
E	324	612	288

Based on the above information, answer the questions from 46 to 48.

పై సమాచారం ఆధారంగా 46 నుండి 48 వరకు గల ప్రశ్నలకు సమాధానాలివ్వండి.

Sub questions

Question Number : 46 Question Id : 2099632128 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
      2. Problem Solving   సమస్యా సాధన
      B. Data Analysis   దత్తాంశ విశ్లేషణ

What is the ratio between the total number of products sold by shop B and C?

B, C అనే దుకాణాలు అమ్మిన మొత్తం ఉత్పత్తుల నిష్పత్తి ఎంత ?

(1)   11 : 10

(2)   10 : 11

(3)   9 : 10

(4)   10 : 9

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

**Question Number : 47 Question Id : 2099632129 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None**
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
      2. Problem Solving   సమస్యా సాధన
      B. Data Analysis   దత్తాంశ విశ్లేషణ

The percentage of sales of product P_1 in the total sales of shop D is

దుకాణము D మొత్తం అమ్మకాలలో ఉత్పత్తి P_1 యొక్క అమ్మకాల శాతం

(1)   48

(2)   20

(3)   34

(4)   52

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 48 Question Id : 2099632130 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
    2. Problem Solving   సమస్యా సాధన
    B. Data Analysis   దత్తాంశ విశ్లేషణ

The average of sales of product P_3 by all shops A, B, C, D, E is

అన్ని దుకాణాలు A, B, C, D మరియు E లచే అమ్మబడిన ఉత్పత్తి P_3 యొక్క అమ్మకాల అమ్మకాల సంఖ్యల సగటు

    (1)   446

    (2)   436

    (3)   426

    (4)   416

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number:	6
Sub-Section Id:	209963236
Question Shuffling Allowed :	No

Question Id : 2099632131 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension
Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Question Numbers : (49 to 51)

2. Problem Solving   సమస్యా సాధన
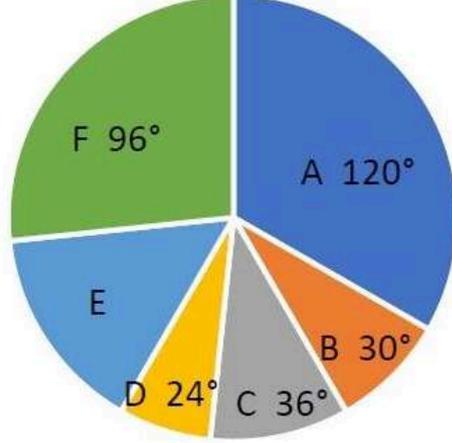
B. Data Analysis   దత్తాంశ విశ్లేషణ

The following pie-chart shows the number of students studying different courses A, B, C, D, E and F in a college.

ఈ క్రింది పై చిత్రం, ఒకానొక కళాశాలలో A, B, C, D, E, F అనే కోర్సులను చదివే విద్యార్థుల సంఖ్యను సూచిస్తుంది.

Based on the above information, answer questions from 49 to 51.

పై సమాచారం ఆధారంగా 49 నుండి 51 వరకు గల ప్రశ్నలకు సమాధానాలివ్వండి.

Sub questions

Question Number : 49 Question Id : 2099632132 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

2. Problem Solving   సమస్యా సాధన

B. Data Analysis   దత్తాంశ విశ్లేషణ

If the total number of students studying course B is 270, then the number of students studying course D is

B అనే కోర్సును చదివే విద్యార్థుల సంఖ్య 270 అయినపుడు, కోర్సు D ని చదివే విద్యార్థుల సంఖ్య

(1)   180

(2)   216

(3)   252

(4)   268

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 50 Question Id : 2099632133 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

2. Problem Solving   సమస్యా సాధన

B. Data Analysis   దత్తాంశ విశ్లేషణ

If the total strength of the college is 7200, then the number of students studying course C is

ఆ కళాశాలలోని మొత్తం విద్యార్థుల సంఖ్య 7200 అయినపుడు, కోర్స్ C ని చదివే విద్యార్థుల సంఖ్య

(1) 720

(2) 1280

(3) 600

(4) 1080

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 51 Question Id : 2099632134 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

2. Problem Solving   సమస్యా సాధన

B. Data Analysis   దత్తాంశ విశ్లేషణ

The total number of students studying courses A and B is equal to the number of students studying which of the following two courses?

A, B అనే రెండు కోర్సులను చదివే మొత్తం విద్యార్థుల సంఖ్య, ఈ క్రింద ఇచ్చిన ఏ రెండు కోర్సులను చదివే మొత్తం విద్యార్థుల సంఖ్యకు సమానం?

(1) D, E

(2) E, F

(3) A, C

(4) B, E

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number:	7
Sub-Section Id:	209963237
Question Shuffling Allowed :	No

Question Id : 2099632135 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Question Numbers : (52 to 55)

In an apartment of 240 families each family subscribe at least one of the three dailies E, T and A. It is known that 120 families subscribe E, 140 subscribe T, 60 subscribe A, 20 subscribe T and A but not E, 30 subscribe E and T and the number of families who subscribe E and A but not T is 20 more than the number of families who subscribe all the three.

240 కుటుంబాలు గల ఒక అపార్ట్ మెంట్ లో ప్రతి కుటుంబం E, T, A దిన పత్రికలలో కనీసం ఒక దానికైనా చందాదారులుగా కలరు. అందులో 120 కుటుంబాలు Eకు, 140 కుటుంబాలు Tకు, 60కుటుంబాలు A లకు చందాదారులు గా ఉన్నారు. Tకు Aకు చందా కడుతూ Eకు చందా కట్టని వారి సంఖ్య 20; E మరియు T లకు చందా కడుతున్నది 30కుటుంబాలు. E మరియు A లకు చందా కడుతూ Tకు చందా కట్టని వారి సంఖ్య అనేది అన్నింటికీ చందా కట్టే వారి సంఖ్య కన్నా 20ఎక్కువ.

Using this data, answer the following questions from 52-55.

ఈ సమాచారం ఆధారంగా 52-55 వరకు గల ప్రశ్నలకు సమాధానాలిమ్ము

Sub questions

Question Number : 52 Question Id : 2099632136 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving సమస్యా సాధన

B. Data Analysis దత్తాంశ విశ్లేషణ

The number of families who subscribe to all the three is

మూడింటికీ చందా కడుతున్న కుటుంబాల సంఖ్య

   (1)   7

   (2)   6

   (3)   5

   (4)   4

Options :

1. ✔ 1

2. ✸ 2

3. ✸ 3

4. ✸ 4

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving   సమస్యా సాధన

B. Data Analysis   దత్తాంశ విశ్లేషణ

The number of families who subscribe only A is

A కు మాత్రమే చందా కడుతున్న కుటుంబాల సంఖ్య

(1)   10

(2)   11

(3)   12

(4)   13

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 54 Question Id : 2099632138 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

The number of families who subscribe only E is

E కు మాత్రమే చందా కడుతున్న కుటుంబాల సంఖ్య

- (1) 62
- (2) 63
- (3) 64
- (4) 65

Options :

1. ✔ 1

2. �✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 55 Question Id : 2099632139 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
          2. Problem Solving   సమస్యా సాధన
          B. Data Analysis   దత్తాంశ విశ్లేషణ

The number of families who subscribe exactly any two of these three is

మూడింటిలో సరిగ్గా ఏవేని రెండింటికి చందాను కట్టిన కుటుంబాల సంఖ్య

- (1) 65
- (2) 70
- (3) 75
- (4) 80

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Id : 2099632140 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Question Numbers : (56 to 60)

SECTION - A : ANALYTICAL ABILITY
 2. Problem Solving   సమస్యా సాధన

 C. Coding and Decoding Problems
     కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

The letters of English alphabet are arranged around a circle in clock wise direction and are coded as follows:

 a) A vowel is coded as 4th vowel from it in the clockwise direction.

 b) A consonant is coded as 2nd consonant from it in the counter clockwise direction.

For decoding inverse process is followed.

Based on the above information, answer the questions from 56 to 60.

ఆంగ్ల వర్ణమాలలోని అక్షరాలను ఒక వృత్తం చుట్టూ సవ్యదిశలో అమర్చి వాటిని ఈ క్రింది విధంగా కోడ్ చేసిరి.

 a) ఒక అచ్చును దాని నుండి 4వ అచ్చుతో సవ్యదిశలో కోడ్ చేసిరి.

 b) ఒక హల్లును దానినుండి రెండవ హల్లుతో అపసవ్య దిశలో కోడ్ చేసిరి.

డీకోడింగ్ కు విలోమ పద్ధతిని అనుసరిస్తారు.

పై సమాచారం ఆధారంగా 56 నుండి 60 వరకు గల ప్రశ్నలకు సమాధానం ఇవ్వండి.

Sub questions

Question Number : 56 Question Id : 2099632141 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving   సమస్యా సాధన

C. Coding and Decoding Problems
కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

The code for TSICET is

TSICET కు కోడ్

(1) RQAYAR

(2) RQEZAR

(3) SQEZAS

(4) SPEZAS

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

**Question Number : 57 Question Id : 2099632142 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None**

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving   సమస్యా సాధన

C. Coding and Decoding Problems
కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

The code for AVOID is

AVOID కు కోడ్

(1) UTAEB

(2) ZSIFA

(3) USIEB

(4) UROEB

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

**Question Number : 58 Question Id : 2099632143 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None**

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving సమస్య సాధన

C. Coding and Decoding Problems
కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

The string of letters that is coded as PENCIL is

PENCIL గా కోడ్ చేయబడిన అక్షరాల కూర్పు

(1) RIQFON

(2) SIPFOM

(3) RUQFIN

(4) RIPGUN

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - A : ANALYTICAL ABILITY
2. Problem Solving   సమస్యా సాధన

C. Coding and Decoding Problems
కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

The string of letters that is coded as RACE is

RACE గా కోడ్ చేయబడిన అక్షరాల కూర్పు

(1)   TUFO

(2)   SEGI

(3)   TEFI

(4)   TIGE

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 60   Question Id : 2099632145   Question Type : MCQ   Option Shuffling : No   Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0   Minimum Instruction Time(in seconds) : 0   Calculator : None

Correct Marks : 1   Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
2. Problem Solving   సమస్యా సాధన

C. Coding and Decoding Problems
కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

The code for CRAFT is

CRAFT నకు కోడ్

(1)   ZQIDS

(2)   ZRADR

(3)   ZCAPR

(4)   ZPUCR

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

2. Problem Solving   సమస్యా సాధన

C. Coding and Decoding Problems
కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

In a certain code if DEJECTION is coded as TCENOIJED and DUPLEXITY is coded as XELYTIPUD then the word DEBUNKING is coded as

ఒకానొక కోడ్ లో DEJECTION ను TCENOIJED గాను, DUPLEXITY ని XELYTIPUD గాను కోడ్ చేసినపుడు DEBUNKING యొక్క కోడ్

(1) GNIKNUBED

(2) KNUGNIBED

(3) GNIBEDKNU

(4) BEDKNUGNI

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 62 Question Id : 2099632147 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving   సమస్యా సాధన

C. Coding and Decoding Problems
కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

If CLASS is coded as TRBKD, then code for LEVEL is

CLASS ను TRBKD గా కోడ్ చేస్తే, LEVEL కు కోడ్

(1) MDWDM

(2) KDUDK

(3) MEVEM

(4) MDVDM

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

2. Problem Solving సమస్యా సాధన

C. Coding and Decoding Problems
కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

If LIFEHACKS is coded as 14110871003051321 then, the code for SAVER is

LIFEHACKS ను 14110871003051321 గా కోడ్ చేసినచో, SAVER యొక్క కోడ్

(1) 2103240720

(2) 2103340720

(3) 2103440720

(4) 2103540720

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 64 Question Id : 2099632149 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving   సమస్యా సాధన

C. Coding and Decoding Problems

కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

In a code language, GIANT is written as SMBHF, then the DRIVE is written in that code as

ఒక కోడ్ బాషలో GIANT ను SMBHF గా వ్రాస్తే, అదే కోడ్ బాషలో DRIVE ను ఏ విధంగా వ్రాస్తారు

(1) DVMQC

(2) DUMQC

(3) DUJQC

(4) DJVRC

Options :

1. ✔ 1

2. ✷ 2

3. ✷ 3

4. ✷ 4

Question Number : 65 Question Id : 2099632150 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY
2. Problem Solving   సమస్యా సాధన
C. Coding and Decoding Problems
కోడింగ్ మరియు డీకోడింగ్ సమస్యలు

In a certain code BREAK is coded as 185 and CAUSE is coded as 245, then the code of CROWD is

ఒకానొక కోడ్ లో BREAK ను 185 గా, CAUSE ను 245 గా కోడ్ చేసినపుడు అదే కోడ్ బాషలో CROWD యొక్క కోడ్

(1) 325

(2) 305

(3) 315

(4) 335

Options :

1. ✔ 1

2. ✷ 2

3. ✷ 3

4. ✷ 4

SECTION - A : ANALYTICAL ABILITY
2. Problem Solving   సమస్యా సాధన

D. Date and Time & Arrangement Problems
తేది, సమయం మరియు అమరికల సమస్యలు

Christmas day in the year 2025 falls on the day

2025 వ సంవత్సరములో క్రిస్టమస్ ఏ రోజు వచ్చును?

(1)	Wednesday	బుధవారం
(2)	Thursday	గురువారం
(3)	Friday	శుక్రవారం
(4)	Saturday	శనివారం

Options :

1. ✔ 1

2. ✷ 2

3. ✷ 3

4. ✷ 4

2. Problem Solving   సమస్యా సాధన

D. Date and Time & Arrangement Problems
తేది, సమయం మరియు అమరికల సమస్యలు

At what time between 3pm and 4pm are the hands of a clock together?

మధ్యాహ్యం 3 మరియు 4 గంటల మధ్య గడియారం లోని ముల్లులు ఏ సమయం వద్ద ఏకీభవిస్తాయి?

(1) $16\frac{3}{11}$ min past 3   3 గం.$16\frac{3}{11}$ ని.

(2) $16\frac{4}{11}$ min past 3   3 గం. $16\frac{4}{11}$ ని.

(3) $27\frac{3}{11}$ min past 3   3 గం. $27\frac{3}{11}$ ని.

(4) $29\frac{3}{11}$ min past 3   3 గం. $29\frac{3}{11}$ ని.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 68 Question Id : 2099632153 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - A : ANALYTICAL ABILITY

2. Problem Solving సమస్యా సాధన

D. Date and Time & Arrangement Problems
తేది, సమయం మరియు అమరికల సమస్యలు

If time in a clock is 5.40, then what time does its mirror image show?

గడియారంలో 5.40 సమయాన దాని యొక్క దర్పణ ప్రతిబింబం చూపే సమయం

(1) 6.10
(2) 6.20
(3) 6.30
(4) 6.40

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

2. Problem Solving   సమస్యా సాధన

D. Date and Time & Arrangement Problems
తేది, సమయం మరియు అమరికల సమస్యలు

A is my brother's son's sister. B is my mother's husband.

Then A is related to B as

నా సోదరుడి కుమారుని సోదరి A . నాతల్లి యొక్క భర్త B. అయిన, B కు A ఏమౌతారు?

(1)   Daughter   కూతురు

(2)   Sister   సోదరి

(3)   Niece   మేనకోడలు

(4)   Granddaughter మనుమరాలు

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 70 Question Id : 2099632155 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

2. Problem Solving సమస్యా సాధన

D. Date and Time & Arrangement Problems
తేది, సమయం మరియు అమరికల సమస్యలు

If a person leaves home at 8.00 am for his office by walk with a speed of 4 kmph and he reaches office on time. Had he walked to his office with a speed of 3 kmph, he would have reached office late by 20 minutes. Then the distance between office and home (in km.) is

ఒక వ్యక్తి తన ఇంటి నుండి ఉ.8 గంటలకు గంటకు 4 కి.మీ. వేగంతో నడుస్తూ తన కార్యాలయానికి బయలుదేరి సకాలములో చేరెను. అతను కనక గంటకు 3 కి.మీ. వేగంతో నడిచి వెళ్లి ఉంటె, కార్యాలయానికి 20 ని. ఆలస్యంగా చేరుకునేవాడు. అపుడు, తన ఇంటికి మరియు కార్యాలయానికి గల మధ్య దూరం (కి.మీ.లలో)

(1)   4.1

(2)   4

(3)   4.5

(4)   5

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 71 Question Id : 2099632156 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

2. Problem Solving సమస్యా సాధన

D. Date and Time & Arrangement Problems
తేది, సమయం మరియు అమరికల సమస్యలు

A bus leaves for Tirupati every 5 hours from MGBS. An announcement was made that the bus left for Tirupati 40 minutes ago and the next bus will leave at 8 pm. At what time was the announcement made?

MGBS నుండి ప్రతీ 5 గంటలకు ఒక బస్సు తిరుపతికి బయలుదేరుతుంది. ఆ MGBS లో ఒక ప్రకటన ఇలా వచ్చింది. 40 ని. ల క్రితం తిరుపతికి బస్సు వెళ్ళింది మరియు తర్వాత బస్సు 8 గంటలకు బయలుదేరుతుంది. అయితే, ఆ ప్రకటన చేయబడిన సమయమెంత?

(1) మ. 3.30 pm

(2) మ. 2.40 pm

(3) మ. 3 pm

(4) మ. 3.40 pm

Options :

1. ✔ 1

2. ✶ 2

3. ✶ 3

4. ✶ 4

Question Number : 72 Question Id : 2099632157 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

2. Problem Solving   సమస్యా సాధన

D. Date and Time & Arrangement Problems
తేది, సమయం మరియు అమరికల సమస్యలు

A, B, C, D, E, F are sitting in a row facing North. E and F are in the centre. A and B are at the ends, C is sitting to the left of B, F is sitting to the right of D. Who is sitting to the right of E?

A, B, C, D, E, F లు ఉత్తరాభిముఖంగా ఒక వరుసలో కూర్చున్నారు. E Fలు మధ్యలో కూర్చున్నారు. A, Bలు రెండు చివర్లలో కూర్చున్నారు. Bకు ఎడమవైపున C కూర్చున్నాడు. Dకు కుడి వైపున Fకూర్చున్నాడు. అయితే, E కు కుడివైపు కూర్చున్నదెవరు?

(1)   A
(2)   C
(3)   D
(4)   E

Options :

1. ✔ 1

2. ✷ 2

3. ✷ 3

4. ✷ 4

Question Number : 73 Question Id : 2099632158 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

2. Problem Solving సమస్యా సాధన

D. Date and Time & Arrangement Problems
తేది, సమయం మరియు అమరికల సమస్యలు

For $a, b \in \mathbb{Z}$ define $a \ominus b = a \times b, a \otimes b = a + b$

$a \oplus b = a - b$ and $a \ominus b = a \div b$. Then,

$25 \ominus 5 \otimes 10 \oplus 30 \ominus 10 =$

$a, b \in \mathbb{Z}$ లకు

$a \ominus b = a \times b, a \otimes b = a + b$, $a \oplus b = a - b$ మరియు $a \ominus b = a \div b$ గా

నిర్వచించండి. అపుడు, $25 \ominus 5 \otimes 10 \oplus 30 \ominus 10 =$

(1) 132

(2) 133

(3) 134

(4) 135

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 74 Question Id : 2099632159 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

2. Problem Solving సమస్యా సాధన

D. Date and Time & Arrangement Problems
తేదీ, సమయం మరియు అమరికల సమస్యలు

If $a * b = a + b + 1$ and $a \oplus b = \dfrac{ab}{5}$ then $(2 * 3) \oplus 5 =$

$a * b = a + b + 1$ మరియు $a \oplus b = \dfrac{ab}{5}$ అయినపుడు, $(2 * 3) \oplus 5 =$

(1) 2

(2) 4

(3) 6

(4) 8

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 75 Question Id : 2099632160 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

2. Problem Solving   సమస్యా సాధన

D. Date and Time & Arrangement Problems
తేది, సమయం మరియు అమరికల సమస్యలు

If $a * b = (a + b)^2$ and $a \triangle b = (a - b)^2$, then $(3 * 6) \triangle (5 * 8) =$

$a * b = (a + b)^2$ మరియు $a \triangle b = (a - b)^2$ అయితే, $(3 * 6) \triangle (5 * 8) =$

(1)   7744

(2)   7754

(3)   6752

(4)   7245

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Mathematical Ability

Section Id :	20996332
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions to be attempted:	75
Section Marks:	75
Maximum Instruction Time :	0

Sub-Section Number:	1
Sub-Section Id:	209963241
Question Shuffling Allowed :	Yes

Question Number : 76 Question Id : 2099632161 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

$$\frac{\left(\frac{3}{7}\right)^3 + \left(\frac{6}{35}\right)^3 - \left(\frac{3}{5}\right)^3}{\frac{3}{7} \times \frac{3}{5} \times \frac{18}{35}} =$$

(1) -1

(2) -2

(3) 1

(4) 2

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

If x and y are natural numbers such that $x^y = 81$ and $y^x = 64$, then $x^2 + y^2 =$

x, y లు సహజ సంఖ్యలు $x^y = 81$ and $y^x = 64$ అయ్యెటట్లంటే $x^2 + y^2 =$

    (1)   25

    (2)   65

    (3)   13

    (4)   34

Options :

1. ✔ 1

2. � 2

3. ✖ 3

4. ✖ 4

Question Number : 78 Question Id : 2099632163 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్ధ్యత

If $x^2 + 4y^2 - 4xy = 0$, then $(x + y):(x - y) =$

$x^2 + 4y^2 - 4xy = 0$ అయితే, $(x + y):(x - y) =$

(1) 2 : 3

(2) 2 : 1

(3) 3 : 1

(4) 3 : 4

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్ధ్యత

The total of the daily wages of A, B and C is Rs.1500. If they spend 20%, 25% and 50% of their incomes respectively, then the ratio of their savings becomes 8 : 9 : 4. What is the income of B (in rupees) ?

A, B, C ల రోజువారి వేతనాల మొత్తం రూ. 1500. వారి ఆదాయాలలో వరుసగా 20%, 25% మరియు 50% ఖర్చు చేస్తే, వారి పొదుపుల నిష్పత్తి 8 : 9 : 4 అవుతుంది. B యొక్క ఆదాయం ఎంత (రూ.లలో) ?

(1) 600

(2) 500

(3) 400

(4) 700

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

$$\sqrt{14 + 4\sqrt{6}} + \sqrt{14 - 4\sqrt{6}} =$$

(1) $4\sqrt{3}$

(2) $8\sqrt{2}$

(3) $6\sqrt{3}$

(4) $5\sqrt{2}$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 81 Question Id : 2099632166 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

$$x = 5 + 5^{\frac{1}{3}} + 5^{\frac{2}{3}} \implies x^3 - 15x^2 + 60x =$$

(1) 50

(2) 60

(3) 70

(4) 80

Question Number : 82 Question Id : 2099632167 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY
1. Arithmetical Ability
అంకగణిత సామర్థ్యత

Let a be a two digit number and b be the number obtained by reversing its digits. If $ab = 3478$, then the difference of these two numbers is

a ఒక రెండంకెల సంఖ్య అని మరియు b అనేది ఆ సంఖ్యలోని అంకెలను తారుమారు చేయగా వచ్చు సంఖ్య అనుకొనుము. $ab = 3478$ అయితే, ఈ రెండు సంఖ్యల భేదం

   (1) 25

   (2) 27

   (3) 36

   (4) 18

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 83 Question Id : 2099632168 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

The greatest possible length of scale (in cm) that can be used to measure exactly three iron rods of lengths 296 cm, 185 cm and 407 cm is (in cm)

296 సెం.మీ., 185 సెం.మీ. మరియు 407 సెం.మీ. అనే మూడు ఇనుప కడ్డీలను, ఖచ్చితంగా కొలవడానికి ఉపయోగపడే అత్యంత పొడవైన స్కేలు పొడవు (సెం.మీ.లలో)

    (1)   37

    (2)   35

    (3)   8

    (4)   18

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 84 Question Id : 2099632169 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY
1. Arithmetical Ability
అంకగణిత సామర్థ్యత

The HCF of $2^4 5^3 7^2 11^4$, $2^5 3^7 5^2 11^2 13^7$ is

$2^4 5^3 7^2 11^4$, $2^5 3^7 5^2 11^2 13^7$ ల గరిష్ఠ సామాన్య భాజకం

(1) $2^4 \, 5^2 \, 11^4$

(2) $2^5 \, 5^3 \, 11^2$

(3) $2^3 \, 3^5 \, 11^4$

(4) $2^4 \, 5^2 \, 11^2$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 85 Question Id : 2099632170 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

The greatest common divisor of the numbers $5^{18} - 1, 5^{24} - 1$ is

$5^{18} - 1, 5^{24} - 1$ అను సంఖ్యల గరిష్ట సామాన్య భాజకం

    (1) $5^4 - 1$

    (2) $5^6 - 1$

    (3) $5^{12} - 1$

    (4) $5^8 - 1$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 86 Question Id : 2099632171 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY
1. Arithmetical Ability
అంకగణిత సామర్ధ్యత

$0.1\overline{36} =$

(1) $\dfrac{5}{23}$

(2) $\dfrac{4}{21}$

(3) $\dfrac{3}{22}$

(4) $\dfrac{2}{27}$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 87 Question Id : 2099632172 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

$x : y = 5 : 3 \implies \dfrac{x^2 - xy + y^2}{x^2 + xy + y^2} =$

    (1) $\dfrac{17}{49}$

    (2) $\dfrac{19}{47}$

    (3) $\dfrac{19}{49}$

    (4) $\dfrac{13}{49}$

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

The ascending order of the numbers $\frac{2}{5}, \frac{4}{11}, \frac{5}{7}, \frac{7}{13}, \frac{13}{17}$ is

$\frac{2}{5}, \frac{4}{11}, \frac{5}{7}, \frac{7}{13}, \frac{13}{17}$ అనే సంఖ్యల ఆరోహణ క్రమం

(1) $\frac{2}{5}, \frac{4}{11}, \frac{5}{7}, \frac{7}{13}, \frac{13}{17}$

(2) $\frac{5}{7}, \frac{13}{17}, \frac{7}{13}, \frac{4}{11}, \frac{2}{5}$

(3) $\frac{4}{11}, \frac{2}{5}, \frac{7}{13}, \frac{5}{7}, \frac{13}{17}$

(4) $\frac{4}{11}, \frac{7}{13}, \frac{13}{17}, \frac{2}{5}, \frac{5}{7}$

Options :

1. ✔ 1

2. ✱ 2

3. ✱ 3

4. ✱ 4

Question Number : 89 Question Id : 2099632174 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

The positive square root of the smallest of the numbers

$$4 - \sqrt{15}, \ 7 - 2\sqrt{3}, \ 5 - \sqrt{6}, \ 6 - \sqrt{15}$$

$4 - \sqrt{15}, \ 7 - 2\sqrt{3}, \ 5 - \sqrt{6}, \ 6 - \sqrt{15}$ లలో కనిష్ఠ పదం యొక్క ధన వర్గ మూలం

(1) $\dfrac{\sqrt{5} - \sqrt{3}}{\sqrt{2}}$

(2) $\dfrac{\sqrt{6} - 2}{\sqrt{2}}$

(3) $\dfrac{\sqrt{7} - \sqrt{5}}{\sqrt{2}}$

(4) $\dfrac{2\sqrt{2} - \sqrt{6}}{\sqrt{2}}$

Options :

1. ✔ 1

2. ✱ 2

3. ✱ 3

4. ✱ 4

Question Number : 90 Question Id : 2099632175 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

If 18% of a property is worth Rs. 1.98 lakhs, then 48% of the property is worth (in lakhs of rupees)

ఒక సంపదలో 18% అనేది రూ. 1.98 లక్షల విలువను కలిగి ఉంటె, ఆ సంపదలో 48% యొక్క విలువ (లక్షల రూ.లలో)

(1) 5.76

(2) 4.80

(3) 5.28

(4) 4.32

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 91 Question Id : 2099632176 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

A person Mr. A sells two mobile phones for Rs. 96000 each, gaining 20% on one and losing 20% on the other. Then his overall loss percentage in this transaction is

ఒక వ్యక్తి Mr. A తన రెండు మొబైల్ ఫోన్లను ఒక్కోదానిని రూ.96000 లకు అమ్మినప్పుడు, ఒక దానిపై 20% లాభం, రెండవ దానిపై 20% నష్టం వచ్చెను. ఈ లావాదేవిలో అతని నష్ట శాతం

(1) 8

(2) 6

(3) 5

(4) 4

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 92 Question Id : 2099632177 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్ధ్యత

An article is sold at the profit of 25%. If it was sold at the profit of 30%, then Rs.50 more would have gained. The cost price of the article is (in Rupees)

ఒక వస్తువును 25% లాభంతో అమ్మిరి. దానిని 30% లాభంతో అమ్మి ఉంటె, రూ. 50 లు ఎక్కువగా పొందేవారు. ఆ వస్తువు కొన్నవెల (రూ.లలో)

(1) 800

(2) 900

(3) 1000

(4) 700

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 93 Question Id : 2099632178 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

A person bought an article for Rs.1200. He sells it with a discount of 10% on its marked price and derives a profit of 20%. Then what is the marked price of the article (in rupees)?

ఒకానోక వస్తువును ఒక వ్యక్తి రూ. 1200 లకు కొన్నాడు. ఆ వస్తువు యొక్క ప్రకటిత వెల పై 10% తగ్గింపుతో ఇచ్చి, దానిని 20% లాభం కు అమ్మినపుడు ఆ వస్తువు యొక్క ప్రకటిత వెల ఎంత (రూ.లలో)?

    (1)   1400

    (2)   1500

    (3)   1600

    (4)   1700

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 94 Question Id : 2099632179 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

Three persons A, B and C started a business. A invested $\frac{1}{3}$ of the total capital and B invested amount equal to the investment of A and C. If the annual profit in the business is Rs.21000, then the profit of C is (in Rupees)

A, B, C అనే ముగ్గురు వ్యక్తులు ఉమ్మడిగా ఒక వ్యాపారాన్ని మొదలు పెట్టారు. మొత్తం మూలధనంలో $\frac{1}{3}$ వ వంతును A పెట్టుబడిగా పెట్టాడు. A, C ల పెట్టుబడుల మొత్తానికి సమానం అయిన సొమ్మును B పెట్టుబడిగా పెట్టాడు. ఆ వ్యాపారంలో సంవత్సరాంత లాభం రూ. 21000 అయితే, C యొక్క లాభం (రూ.లలో)

(1) 3500

(2) 10500

(3) 7000

(4) 9500

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

Two persons A and B start a business as a joint venture with the investments in the ratio 3 : 4. B withdraws his investment after few months. Immediately, at the time of departure of B, another person C joins with A with an investment half that of B. A and C continue till the end. If shares of B and C are equal in the year end profit, then when did B leave?

A, B అనే వ్యక్తులు 3 : 4 నిష్పత్తితో పెట్టుబడితో ఒక ఉమ్మడి వ్యాపారాన్ని ప్రారంభించిన కొన్ని సెలల పిదప B వ్యాపారం నుండి నిష్క్రమించెను. అదే సమయంలో A తో C అనే వ్యక్తి B యొక్క పెట్టుబడిలో సగం పెట్టుబడితో చేరి, చివరిదాకా కొనసాగెను. సంవత్సరాంత లాభంలో B మరియు C ల వాటాలు సమానం అయినపుడు, ఎన్ని సెలల తర్వాత B ఆ వ్యాపారం నుండి నిష్క్రమించెను?

(1)	After 4 months	నాలుగు సెలల తరువాత
(2)	After 6 months	ఆరు సెలల తరువాత
(3)	After 5 months	ఐదు సెలల తరువాత
(4)	After 7 months	ఏడు సెలల తరువాత

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 96 Question Id : 2099632181 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

There are two taps A and B are attached to the bottom of a rectangular tank. The tap A when opened fills the empty tank in 2 hours whereas tap B empties the full tank in 5 hours. When the tank is empty both the taps A and B are opened at 10 am. The amount of time taken to fill the tank is

ఒక దీర్ఘ చతురస్రాకార తొట్టి అడుగు భాగాన A, B లు అనే రెండు నల్లాలు అమర్చ బడ్డాయి. నల్లా A ను తెరిచినపుడు ఆ ఖాళీ తొట్టి ని 2 గంటలలో నింపగా నల్లా B ఆ నిండు తొట్టి ని 5గంటలలో ఖాళీ చేస్తుంది. ఆ తొట్టి ఖాళీగా ఉన్నపుడు రెండు నల్లాలు A, Bలను ఉదయం గం.10 కి తెరిస్తే, ఆ తొట్టి నిండటానికి పట్టే సమయం

(1) 3 hours 20 minutes   3 గం. 20 ని.

(2) 3 hours   3 గం.

(3) 4 hours   4 గం.

(4) 4 hours 10 minutes   3 గం. 10 ని.

Options :

1. ✔ 1

2. ✺ 2

3. ✺ 3

4. ✺ 4

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

A pipe can fill a cistern in 3 hours. Due to leak in the cistern, it takes 4 hours to fill. In how much time can the leak empty the cistern? (in hours)

ఒక పైపు నీటి తొట్టిని 3 గంటలలో నింపగలదు. ఆ తొట్టిలో లీకు కారణంగా, అది 4 గంటలలో నిండుతుంది. ఎంత సమయంలో ఆ లీకు ఆ తొట్టిని ఖాళీ చేస్తుంది(గం.లలో)?

(1) 11

(2) 12

(3) 13

(4) 13.5

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 98 Question Id : 2099632183 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

A girl walking at a speed of 15 kmph and reaches her school 20 minutes late. Next time, she increases her speed by 5 kmph, but still she is late by 10 minutes. The distance of the school from her home is (in kms)

ఒక బాలిక గంటకు 15కి.మీ. వేగంతో నడిచి తన స్కూల్ కు 20 ని. లు ఆలస్యంగా చేరుకుంటుంది. తదుపరి సారి, ఆమె వేగాన్ని గంటకు 5కి.మీ. కు పెంచినప్పటికీ స్కూల్ కు 10ని.లు ఆలస్యంగా చేరుకున్నట్లయితే, ఆమె ఇంటి నుండి స్కూల్ కు గల దూరం (కి.మీ.లలో)

(1) 15

(2) 10

(3) 12

(4) 8

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

A train travels between A and C via B. The train leaves A at 8.00 am with a speed of 60 kmph and reaches the station B at 9.40 am. The train halts at B for 10 minutes and starts moving towards C with a speed of 90 kmph and reaches C at 11.30 am. Then the distance between A and C (in kmph) is

ఒక రైలు B మీదుగా A నుండి C వరకు ప్రయాణిస్తుంది. స్టేషన్ A నుండి ఉ.8 గం.లకు గంటకు 60 కి.మీ. వేగంతో బయలుదేరి రైలు స్టేషన్ Bను ఉ.9.40 గం.లకు చేరుకుంటుంది. స్టేషన్ B వద్ద 10 ని. ఆగి ఆపై C వైపు గంటకు 90 కి.మీ. వేగంతో బయలుదేరి ఉ.11.30 కు C ని చేరుకుంటుంది. అపుడు A మరియు C ల మధ్య దూరం (కి.మీ.లలో)

(1) 200

(2) 240

(3) 250

(4) 260

Options :

1. ✔ 1

2. ✷ 2

3. ✷ 3

4. ✷ 4

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

Three persons P, Q and R together can finish a job in 18 days. P and Q together can complete the same job in 20 days where as P alone can finish the same job in 30 days. If Q and R work together, then the number of days required to complete the job is

ముగ్గురు వ్యక్తులు P, Q , R లు ఒక పనిని 18 రోజులలో పూర్తి చేయగలరు. P, Q లు ఇద్దరూ కలసి ఆ పనిని 20 రోజులలో పూర్తి చేయగలరు. కాగా P ఒక్కడే ఆ పనిని 30 రోజుల్లో పూర్తిచేయగలడు. Q, R లు ఇద్దరూ కలిసి పని చేస్తే ఆ పనిని పూర్తి చేయుటకు పట్టు రోజుల సంఖ్య

- (1) 40
- (2) 42
- (3) 45
- (4) 48

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 101 Question Id : 2099632186 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

The ratio of one day work of a job of three persons A, B and C is 6 : 4 : 3. If A and B together can finish the job in 15 days, then how many days C alone can finish the job?

ఒక పనికి సంబంధించి ముగ్గురు వ్యక్తులు A, B, C ల ఒక రోజు పని నిష్పత్తి 6 : 4 : 3. A, Bలు ఇద్దరూ కలిసి ఆ పనిని 15 రోజులలో పూర్తి చేయగల్గితే, C ఒక్కడే ఆ పనిని ఎన్ని రోజులలో పూర్తి చేయగలడు?

(1) 40

(2) 45

(3) 50

(4) 55

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

Area of the triangle whose sides are $\frac{x}{y}+\frac{y}{z}, \frac{y}{z}+\frac{z}{x}, \frac{z}{x}+\frac{x}{y}$ is (in square units)

$\frac{x}{y}+\frac{y}{z}, \frac{y}{z}+\frac{z}{x}, \frac{z}{x}+\frac{x}{y}$ భుజాలుగా గల ఒక త్రిభుజం యొక్క వైశాల్యం (చ.యూ.లలో)

(1) $\sqrt{\dfrac{x}{y}+\dfrac{y}{z}}$

(2) $\sqrt{\dfrac{y}{z}+\dfrac{z}{x}}$

(3) $\sqrt{\dfrac{x}{y}+\dfrac{y}{z}+\dfrac{z}{x}}$

(4) $\sqrt{\dfrac{z}{x}+\dfrac{x}{y}}$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 103 Question Id : 2099632188 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

Let S be a circle with centre O and radius $5\sqrt{2}$ cm. If AB is a chord of length 10cm in the circle S, then area of the sector AOB is what percent of the area of the circle S?

O కేంద్రం గా ను $5\sqrt{2}$ సెం.మీ. వ్యాసార్థం గల వృత్తం ను S అనుకోండి వృత్తం Sలో 10సెం.మీ. గల జ్యా AB, అయితే, ఆ వృత్త వైశాల్యంలో సెక్టార్ AOB వైశాల్యం ఎంత శాతం ?

    (1) 20

    (2) 25

    (3) 24

    (4) 30

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

A cuboid A has dimensions $6 \times 12 \times 24$ in centimetres. A cube C has volume equal to the volume of A. Then the surface area of C (in cm^2) is

A అనే దీర్ఘ ఘనం కొలతలు సెం.మీ.లలో $6 \times 12 \times 24$. A యొక్క ఘనపరిమాణం కు సమానమైన ఘనపరిమాణం గల సమఘనం C యొక్క ఉపరితల వైశాల్యం (సెం.మీ.^{2} లలో)

(1) 864

(2) 844

(3) 900

(4) 824

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

The circumference of the base of a cylinder is 66 cm and its height is 20 cm. Then the volume of the cylinder is (in cm^3)

20 సెం.మీ. ఎత్తుగాగల ఒక స్తూపం యొక్క అడుగు భాగం యొక్క చుట్టు కొలత 66 సెం.మీ. అయితే, ఆ స్తూపం యొక్క ఘన పరిమాణం (సెం.మీ.^{3} లలో)

    (1)   6600

    (2)   6930

    (3)   6270

    (4)   6336

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 106 Question Id : 2099632191 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

The length of a room is double its breadth. The cost of colouring the ceiling at Rs.25 per sq. meter is Rs.5000 and the cost of painting the four walls at Rs.240 per sq. meter is Rs.64800. Then the height of the room (in meters) is

ఒక గది యొక్క పొడవు, వెడల్పు కు రెండు రెట్లు. ఆ గది పైకప్పుకు రంగు వేయుటకు చ.మీ. కు రూ.25చొప్పున రూ.5000 ఖర్చు కాగా, నాలుగు గోడలకు పెయింట్ వేయుటకు, చ.మీ.కు రూ. 240 చొప్పున రూ. 64800 ఖర్చు అయినచో, ఆ గది ఎత్తు (మీ.లలో)

(1) 5

(2) 4.5

(3) 4

(4) 3.5

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 107 Question Id : 2099632192 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

There is a rectangular park of dimensions $300 \times 250 \ m^2$. It is decided to go for fencing along the boundary, with a provision for a gate of width 3m. along longer side. Erection of gate costs Rs.12000, while rate of fencing per meter is Rs.125. Then the total cost involved in entire work (in rupees) is

300×250 మీ.^{2} కొలతలు గల ఒక దీర్ఘ చతురస్రాకారపు పార్కు కలదు. పొడవు వెంబడి 3 మీ. నిడివిని గేటు కొరకు వదిలి మిగతా చుట్టూ కంచె వేయుటకు నిర్ణయించిరి. గేటును పెట్టుటకు అయిన ఖర్చు రూ. 12000, కాగా ఒక మీటరు కంచె వేయుటకు ఖర్చు రూ.125 చొప్పున ఈ మొత్తం పనిలో అయిన ఖర్చు (రూ.లలో)

 (1) 149100

 (2) 149125

 (3) 149250

 (4) 149275

Options :

1. ✔ 1

2. ✷ 2

3. ✷ 3

4. ✷ 4

Question Number : 108 Question Id : 2099632193 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

1. Arithmetical Ability

అంకగణిత సామర్థ్యత

A rectangular room has floor length of 14×10 sq.ft. Each tile is of dimension 2×1 sq.ft. and costs Rs.20. Total cost including tiles cost incurred in laying tiles on the floor is Rs.19040. Then the cost of laying tiles (per sq.ft) is (in Rs.)

ఒక దీర్ఘ చతురస్రాకార గది నేల కొలతలు 14×10 చ.అ.; 2×1 చ. అ. కొలతలను కలిగిన ఒక్కో టైల్ ఖరీదు రూ.20 అయినపుడు, ఆ నేల పై టైల్స్ ను వేయడానికి మరియు టైల్స్ కొనడానికి అయిన మొత్తం ఖర్చు రూ.19040 అయినపుడు, టైల్స్ వేయడానికి అయిన ఖర్చు (ప్రతి చ.అ.నకు) (రూ.లలో)

(1) 136

(2) 126

(3) 116

(4) 146

Options :

1. ✔ 1

2. ✸ 2

3. ✸ 3

4. ✸ 4

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

The remainder when 31^{49} is divided by 4 is

31^{49} ను 4 చే భాగించగా వచ్చు శేషం

    (1) 1

    (2) 2

    (3) 3

    (4) 0

Options :

1. ✔ 1

2. ✺ 2

3. ✺ 3

4. ✺ 4

Question Number : 110 Question Id : 2099632195 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

1. Arithmetical Ability
అంకగణిత సామర్థ్యత

The solution of $3x \equiv 4 \ (mod \ 7)$ is

$3x \equiv 4$ (మాపం 7) is యొక్క సాధన

(1) 2

(2) 3

(3) 6

(4) 5

Options :

1. ✔ 1

2. ✱ 2

3. ✱ 3

4. ✱ 4

Sub-Section Number:	2
Sub-Section Id:	209963242
Question Shuffling Allowed :	Yes

Question Number : 111 Question Id : 2099632196 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

2. Algebraic and Geometrical Ability
   బీజీయ, జ్యామితీయ సామర్థ్యత

Let $A = \{2, 4, 6, 8, \ldots, 50\}$ and $B = \{3, 6, 9, 12, \ldots, 48\}$. Then the total number of elements in the set $(A - B) \cup (B - A)$ is

సమితులు $A = \{2, 4, 6, 8, \ldots, 50\}$, $B = \{3, 6, 9, 12, \ldots, 48\}$ గా తీసికొంటే, సమితి $(A - B) \cup (B - A)$ లోని మూలకాల సంఖ్య

(1) 23
(2) 22
(3) 25
(4) 24

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 112 Question Id : 2099632197 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

Let A, B be any two finite sets with m, n elements respectively. If A has 192 more subsets than B, then the ordered pair $(m, n) =$

వరుసగా m, n సంఖ్యలలో మూలకాలను కలిగిన పరిమిత సమితులు A, B లనుకోండి. సమితి B కన్నా సమితి A కు 192 ఉప సమితులు ఎక్కువగా ఉన్నచో క్రమయుగ్మం $(m, n) =$

(1) $(8, 7)$

(2) $(8, 5)$

(3) $(8, 6)$

(4) $(6, 8)$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

Let $p(x) = x^2 + ax + b$. If $p(x)$ leaves remainders 2 and 3 respectively when divided by $x - 1$ and $x - 2$, then $a^3 + b^3 =$

$p(x) = x^2 + ax + b$ అనుకొనుము. $p(x)$ ను $x - 1$ మరియు $x - 2$ లచే భాగించగా వచ్చు శేషాలు వరుసగా 2, 3 అయితే, $a^3 + b^3 =$

(1) 19

(2) 18

(3) 17

(4) 16

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 114 Question Id : 2099632199 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

Let $p(x)$ be a quadratic polynomial such that $p(1) + p(2) = p(3), p(2) = p(-2)$ and $p(4) = 20$. Then $p(5) =$

$p(x)$ అనేది ఒక వర్గ బహుపది అయి $p(1) + p(2) = p(3), p(2) = p(-2)$ మరియు $p(4) = 20$ అయ్యేట్లు ఉంటే, $p(5)$ =

(1) 28

(2) 27

(3) 26

(4) 29

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION – B : MATHEMATICAL ABILITY
2. Algebraic and Geometrical Ability
బీజియ, జ్యామితీయ సామర్థ్యత

If the polynomial $x^3 - 2x^2 + ax + b$ is divided by $(x - 1)$ and $(x + 1)$ leaves remainders 6 and -2 respectively, then $a^2 + b^2 =$

బహుపది $x^3 - 2x^2 + ax + b$ ను $(x - 1)$, $(x + 1)$ లచే భాగించినప్పుడు వరుసగా 6, -2 లు శేషాలు గా వస్తే, $a^2 + b^2 =$

(1) 20

(2) 32

(3) 25

(4) 48

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 116 Question Id : 2099632201 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

   బీజీయ, జ్యామితీయ సామర్థ్యత

If a polynomial leaves remainders 5 and 8 when divided by $(x - 1)$ and $(x - 2)$ respsectively, then the remainder when the same polynomial is divided by $x^2 - 3x + 2$ is

ఒక బహుపదిని $(x - 1), (x - 2)$ లతో భాగించినపుడు వరుసగా 5 , 8 లు శేషాలుగా లభిస్తాయి. అయితే, అదే బహుపదిని $x^2 - 3x + 2$ తో భాగించి నపుడు లభించే శేషం

   (1) $3x - 2$

   (2) $2x + 3$

   (3) $3x + 2$

   (4) $2x - 3$

Options :

1. ✔ 1

2. ✳ 2

3. ✳ 3

4. ✳ 4

Question Number : 117 Question Id : 2099632202 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If $\frac{2}{x-2y} + \frac{3}{2x+y} = \frac{7}{2}$ and $\frac{4}{x+y} + \frac{1}{2x+3y} = \frac{9}{2}$, then $\frac{x+y}{x-y} =$

$\frac{2}{x-2y} + \frac{3}{2x+y} = \frac{7}{2}$, $\frac{4}{x+y} + \frac{1}{2x+3y} = \frac{9}{2}$ అయితే, $\frac{x+y}{x-y} =$

(1) 0

(2) 8

(3) 1

(4) $\frac{3}{2}$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 118 Question Id : 2099632203 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

The value of k for which the equations $x + 2y = 5$ and $3x + ky = 10$ have no solution is

k యొక్క ఏ విలువకు సమీకరణాలు $x + 2y = 5$, $3x + ky = 10$ లకు సాధన ఉండదు?

    (1) $k = 4$

    (2) $k \ne 6$

    (3) $k = 6$

    (4) $k = -6$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 119 Question Id : 2099632204 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

$$\frac{(1.7)^3+(3.1)^3+(8.2)^3-129.642}{(1.7)^2+(3.1)^2+(8.2)^2-44.63} =$$

(1) 13

(2) 15

(3) $\frac{14}{3}$

(4) $\frac{25}{2}$

Options :

1. ✔ 1

2. ✶ 2

3. ✶ 3

4. ✶ 4

SECTION – B : MATHEMATICAL ABILITY
2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

Ninth term of the progression $-1, \frac{3}{2}, \frac{-9}{4}, \frac{27}{8}, \frac{-81}{16}, \ldots$ is

$-1, \frac{3}{2}, \frac{-9}{4}, \frac{27}{8}, \frac{-81}{16}, \ldots$ శ్రేఢి యొక్క 9వ పదం

(1) $-\dfrac{2187}{256}$

(2) $-\dfrac{6561}{128}$

(3) $-\dfrac{2187}{128}$

(4) $-\dfrac{6561}{256}$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 121 Question Id : 2099632206 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్ధ్యత

The 100th term of the progression 1, 3, 5, 7, …

1, 3, 5, 7, … అనే శ్రేఢి లో 100 వ పదం

    (1) 199

    (2) 10000

    (3) 201

    (4) 200

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 122 Question Id : 2099632207 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

$\tan 75^0 =$

(1) $1 + \sqrt{3}$

(2) $3 + \sqrt{3}$

(3) $\sqrt{3} - 1$

(4) $2 + \sqrt{3}$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 123 Question Id : 2099632208 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability
   బీజీయ, జ్యామితీయ సామర్థ్యత

$sec^2\theta + \tan^2\theta = 7, \ 0 \le \theta \le \frac{\pi}{2} \implies \theta =$

(1) $\dfrac{\pi}{2}$

(2) $\dfrac{2\pi}{3}$

(3) $\dfrac{\pi}{3}$

(4) $\dfrac{\pi}{4}$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 124 Question Id : 2099632209 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

$$\sin \theta + \sin^2 \theta = 1 \implies \cos^4 \theta + \cos^2 \theta =$$

    (1)   0

    (2)   2

    (3) $\frac{1}{2}$

    (4)   1

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 125 Question Id : 2099632210 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్ధ్యత

$(cosec\theta - sin\theta)(\sec\theta - \cos\theta)(\tan\theta + \cot\theta) =$

(1) -1

(2) 2

(3) 1

(4) -2

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

**Question Number : 126 Question Id : 2099632211 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None**

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

AB is a pole of height 60 ft., with A being foot of the pole, C is a point on AB. Let P be a point on the ground horizontal with A. Angles of depression of P from the points B, C are 60^0 and 30^0 respectively. Then BC (in ft.) is

60 అడుగుల ఎత్తుగల ఒక స్తంభం AB యొక్క పాదం A, మరియు AB పై C ఒక బిందువు. A కు క్షితిజ సమాంతరంగా ఉన్న రేఖ పై ఉన్న ఒక బిందువు P. P నుండి B, C ల నిమ్న కోణాలు వరుసగా 60^0, 30^0 అయితే, BC (అడుగులలో)

(1) 20

(2) 25

(3) 40

(4) 45

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION – B : MATHEMATICAL ABILITY
2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్ధ్యత

In a ΔABC, D, E are points on the sides AB and AC are respectively such that $DE \parallel BC$. If $AD = x, DB = x - 2, AE = x + 2$ and $EC = x - 1$, then the value of $3x + 1$ is

ΔABCలోని భుజాలైన AB, AC ల పై D, E బిందువులు వరుసగా $DE \parallel BC$ అయ్యేట్లున్నాయి. $AD = x, DB = x - 2, AE = x + 2$ మరియు $EC = x - 1$, అయినచో, $3x + 1$ యొక్క విలువ

(1) 5

(2) 9

(3) 17

(4) 13

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 128 Question Id : 2099632213 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If two lines PQ and RS intersect at O such that $\angle POR = 3\angle POS$, then the four angles are

$\angle POR = 3\angle POS$, అయ్యేటట్లుగా PQ, RS అనే రెండు సరళరేఖలు O వద్ద ఖండించుకుంటే, ఆ నాలుగు కోణాలు

    (1) $30°, 30°, 150°·150°$

    (2) $40°, 40°, 140°, 140°$

    (3) $45°, 45°, 135°, 135°$

    (4) $60°, 60°, 120°·120°$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 129 Question Id : 2099632214 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
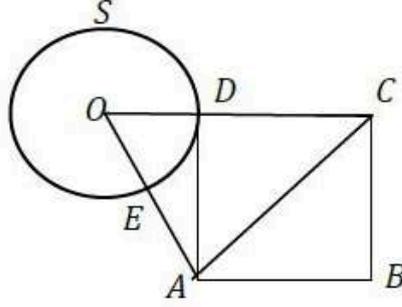**Correct Marks : 1 Wrong Marks : 0**

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

S is a circle of radius 9 cm with centre O, in the following figure and ABCD is a square touching S with AE = 6 cm. Then the area of ΔOAC (in sq. cm) is

క్రింది చిత్రంలో O ను కేంద్రంగా కల్గిన వృత్తం S యొక్క వ్యాసార్థం 9 సెం.మీ. మరియు ABCD అనే చతురస్రం S ను స్పృశిస్తూ AE = 6 సెం.మీ. అయినపుడు, ΔOAC వైశాల్యం (చ.సెం.మీ.లలో)

(1) 116

(2) 126

(3) 120

(4) 130

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

   బీజీయ, జ్యామితీయ సామర్థ్యత

The total surface area of a rectangular box with dimensions $10\ cm \times 8\ cm \times 6\ cm$ (in square cms) is

10 సెం. మీ.× 8 సెం. మీ.× 6 సెం. మీ. ల కొలతలుగల ఒక దీర్ఘ ఘనాకారపు పెట్టె యొక్క సంపూర్ణ తల వైశాల్యం (చ.సెం.మీ.లలో)

    (1) 256

    (2) 376

    (3) 216

    (4) 280

Options :

1. ✔ 1

2. ✷ 2

3. ✷ 3

4. ✷ 4

Question Number : 131 Question Id : 2099632216 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If a circular sector subtending 120° at the centre has an area $\frac{22}{21}$ cm², then, the area of the circle is (in cm²) (Take $\pi=\frac{22}{7}$)

$\frac{22}{21}$ సెం.మీ.² వైశాల్యం కల్గిన ఒక వృత్తాకార త్రిజ్యాంతరం ఆ వృత్త కేంద్రం వద్ద చేయు కోణం120° అయినపుడు, ఆ వృత్త వైశాల్యం (సెం.మీ.² లలో) ($\pi = \frac{22}{7}$ గా తీసికొనుము)

- (1) $\frac{\pi}{3}$
- (2) $\frac{\pi}{2}$
- (3) $\sqrt{2}\,\pi$
- (4) π

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 132 Question Id : 2099632217 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY
2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్ధ్యత

Let A be an external point to the circle S. A pair of tangents are drawn from A to S touching the circle at the points B and C. Let the center of S be O, If AO = 10 cm, and AB = 8 cm, then the area of the quadrilateral ACOB (in sq.cm) is

S అనే వృత్తానికి A ను ఒక బాహ్య బిందువుగా గైకొనుము. బిందువు A నుండి S అనే వృత్తానికి గీయబడిన స్పర్శ రేఖలు వృత్తాన్ని B మరియు C బిందువుల వద్ద స్పృశిస్తాయి. Oను Sవృత్త కేంద్రంగా గైకొనుము. AO = 10 సెం.మీ., AB = 8 సెం.మీ. అయినపుడు, ACOB చతుర్భుజ వైశాల్యం (చ.సెం.మీ.లలో)

(1) 120

(2) 96

(3) 36

(4) 48

Options :

1. ✔ 1

2. ✳ 2

3. ✳ 3

4. ✳ 4

SECTION – B : MATHEMATICAL ABILITY
2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

If the points $(1, 3), (5, 6), (17, k)$ are collinear, then the value of k is

$(1, 3), (5, 6), (17, k)$ అనే బిందువులు సరేఖీయాలు అయినపుడు, $k =$

(1) 15

(2) 13

(3) 11

(4) 9

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 134 Question Id : 2099632219 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

The Y-axis divides the line segment joining $(-1, 2), (3, 4)$ is

$(-1, 2), (3, 4)$ లను కలిపే రేఖా ఖండాన్ని Y-అక్షం విభజించే నిష్పత్తి

    (1)   1 : 3

    (2)   -1 : 3

    (3)   2 : 4

    (4)   -2 : 4

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 135 Question Id : 2099632220 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability
   బీజీయ, జ్యామితీయ సామర్థ్యత

If the line $ax + by + c = 0$ is passing through the points $(8, -3), (-4, 12)$, then

$4a + 9b + 2c =$

$ax + by + c = 0$ అనే సరళరేఖ $(8, -3), (-4, 12)$ అనే బిందువుల గుండా పోతే,

$4a + 9b + 2c =$

    (1) 28

    (2) 19

    (3) 0

    (4) 32

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

The equation of the straight line passing through the origin and making an angle 120°
with the positive direction of X-axis

మూల బిందువు గుండా పోతూ X-అక్షం ధన దిశతో 120° కోణాన్ని చేసే సరళరేఖా సమీకరణం

(1) $\sqrt{3}y - x = 0$

(2) $y - \sqrt{3}x = 0$

(3) $y + \sqrt{3}x = 0$

(4) $\sqrt{3}y + x = 0$

Options :

1. ✔ 1

2. ✱ 2

3. ✱ 3

4. ✱ 4

Question Number : 137 Question Id : 2099632222 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

The slope of the line perpendicular to the line passing through the points

$(0, 0), (1, 2)$ is

$(0, 0), (1, 2)$ బిందువుల గుండా పోయే సరళరేఖకు లంబంగా ఉన్న సరళరేఖ వాలు

(1) $-\dfrac{1}{2}$

(2) -2

(3) 2

(4) $\dfrac{1}{2}$

Options :

1. ✔ 1

2. ✳ 2

3. ✳ 3

4. ✳ 4

Question Number : 138 Question Id : 2099632223 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

The line passing through the point $(-2, -3)$ with slope $\frac{1}{2}$ is

బిందువు $(-2, -3)$ గుండా పోతూ $\frac{1}{2}$ వాలుగా గల సరళరేఖ

(1) $y = \frac{-x}{2} - 2$

(2) $y = \frac{x}{2} + 2$

(3) $y = \frac{-x}{2} + 2$

(4) $y = \frac{x}{2} - 2$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 139 Question Id : 2099632224 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY
2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

The slope of the line perpendicular to the straight line

$\sqrt{3}(x + y - 2) + 2(y - x) - 5 = 0$ is

$\sqrt{3}(x + y - 2) + 2(y - x) - 5 = 0$ అనే సరళరేఖ కు లంబంగా ఉండే సరళరేఖ వాలు

(1) $-7 + 4\sqrt{3}$

(2) $7 + 4\sqrt{3}$

(3) $7 - 4\sqrt{3}$

(4) $-7 - 4\sqrt{3}$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 140 Question Id : 2099632225 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

2. Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

The equation of the straight line passing through the points $(5, 0)$ and $(2, 3)$ is

బిందువులు $(5, 0)$ మరియు $(2, 3)$ ల గుండా పోయే సరళరేఖా సమీకరణం

(1) $2x + y = 10$

(2) $x + y = 5$

(3) $2x - 3y = -5$

(4) $2x + y = 7$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number:	3
Sub-Section Id:	209963243
Question Shuffling Allowed :	Yes

Question Number : 141 Question Id : 2099632226 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

If the arithmetic mean of $73, 85, 63, x + 1, 92$ is 75, then $x =$

$73, 85, 63, x + 1, 92$ ల అంకమధ్యమం 75 అయితే, $x =$

- (1) 69
- (2) 67
- (3) 63
- (4) 61

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 142 Question Id : 2099632227 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

The arithmetic mean of 15 observations is 62. If the mean of first 8 observations is 60 while that of last 8 observations is 65, then the 8th observation is

15 పరిశీలనల అంకమధ్యమం 62. వాటిలో మొదటి 8 పరిశీలనల మధ్యమం 60 కాగా చివరి 8 పరిశీలనల మధ్యమం 65 అయినచో, 8 వ పరిశీలన

    (1)   90

    (2)   60

    (3)   70

    (4)   50

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 143 Question Id : 2099632228 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability
సంఖ్యాకశాస్త్ర సామర్థ్యత

The arithmetic mean of the squares of first 35 natural numbers is

మొదటి 35 సహజ సంఖ్యల వర్గాల అంకమధ్యమం

   (1) 446

   (2) 436

   (3) 426

   (4) 416

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 144 Question Id : 2099632229 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability
సంఖ్యాకశాస్త్ర సామర్థ్యత

Median of the following grouped data is

క్రింది వర్గీకృత దత్తాంశానికి మధ్యగతం

Class interval తరగతి అంతరం	0-10	10-20	20 – 30	30-40	40-50
Frequency పౌనః పున్యం	10	15	20	25	10

(1) 27.5

(2) 27.8

(3) 27.9

(4) 28

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 145 Question Id : 2099632230 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability
సంఖ్యకశాస్త్ర సామర్థ్యత

In a data it is observed that the numbers 4, 9, 25, 36, 49 appeared respectively 17, 37, 101, 145, 197 times. Then the median of the data is

ఒక దత్తాంశంలో సంఖ్యలు 4, 9, 25, 36, 49 లనేవి వరుసగా 17, 37, 101, 145, 197 సార్లు అగుపించాయని గమనిస్తే ఆ దత్తాంశం యొక్క మధ్యగతం

 (1) 25

 (2) 49

 (3) 36

 (4) 9

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

If the mode of the observations $5, 8, 10, 7, 9, 15, 2, 7, 5, 3, 8, 4, 2, 7, 8, 6, x$ is 8,

then $x =$

$5, 8, 10, 7, 9, 15, 2, 7, 5, 3, 8, 4, 2, 7, 8, 6, x$ ల బాహుళకం 8 అయితే, $x =$

    (1) 2

    (2) 9

    (3) 7

    (4) 8

Options :

1. ✔ 1

2. ✱ 2

3. ✱ 3

4. ✱ 4

Question Number : 147 Question Id : 2099632232 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability
సంఖ్యాకశాస్త్ర సామర్థ్యత

The mode of the following distribution is

క్రింది విభాజనానికి బాహుళకం

Class interval తరగతి అంతరం	1-3	3-5	5-7	7-9	9-11
Frequency పౌనః పున్యం	7	8	2	2	1

(1)   3.285

(2)   3.825

(3)   3.625

(4)   3.565

Options :

1. ✔ 1

2. ✱ 2

3. ✱ 3

4. ✱ 4

Question Number : 148 Question Id : 2099632233 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability

సంఖ్యాకశాస్త్ర సామర్థ్యత

If two dice are thrown, then the probability that difference of numbers appeared on them is 3, is

రెండు పాచికలను విసిరినపుడు, వాటి ముఖాలపై సంఖ్యల భేదం 3 అయ్యే ఘటనకు సంభావ్యత

(1) $\frac{1}{6}$

(2) $\frac{1}{2}$

(3) $\frac{1}{36}$

(4) $\frac{5}{36}$

Options :

1. ✔ 1

2. ✸ 2

3. ✸ 3

4. ✸ 4

SECTION – B : MATHEMATICAL ABILITY

3. Statistical Ability
సంఖ్యకశాస్త్ర సామర్థ్యత

The probability of choosing two distinct numbers randomly from the set $\{1, 2, 3, . . ., 40\}$ so that each of them is divisible by 3 is

$\{1, 2, 3, . . ., 40\}$ అనే సమితి నుండి యాద్చ్చికంగా తీసిన రెండు సంఖ్యలలో ప్రతిదీ 3చే భాగింపబడేట్లుండే ఘటనకు సంభావ్యత

(1) $\frac{1}{9}$

(2) $\frac{1}{78}$

(3) $\frac{2}{5}$

(4) $\frac{1}{10}$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 150 Question Id : 2099632235 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION – B : MATHEMATICAL ABILITY
3. Statistical Ability
సంఖ్యాకశాస్త్ర సామర్థ్యత

Suppose a and b are positive integers such that $a + b = 7$. If such a pair (a, b) is chosen randomly, then the probability that $b = 2$ is

a, b లు $a + b = 7$ ను తృప్తి పరిచే ధన పూర్ణాంకాలు అనుకోండి. ఇలాంటి ఒక యుగ్మం (a, b) ను యాద్చ్చికంగా ఎన్నుకుంటే, అందులో $b = 2$ అయ్యేందుకు సంభావ్యత

(1) $\frac{1}{6}$

(2) $\frac{1}{12}$

(3) $\frac{1}{3}$

(4) $\frac{1}{4}$

Options :

1. ✔ 1

2. ✺ 2

3. ✺ 3

4. ✺ 4

Communication Ability

Section Id :	20996333
Section Number :	3
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions to be attempted:	38
Section Marks:	50
Maximum Instruction Time :	0

Sub-Section Number:	1
Sub-Section Id:	209963244
Question Shuffling Allowed :	Yes

Question Number : 151 Question Id : 2099632236 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

One who demonstrates courage or fearlessness is a/an _____ .

   (1)   introvert

   (2)   egoist

   (3)   gallant

   (4)   simpleton

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 152 Question Id : 2099632237 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Meanings

The master gifted a house to his worker in appreciation of his_____ .

   (1)   integrity

   (2)   coldness

   (3)   hostility

   (4)   laziness

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 153 Question Id : 2099632238 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Meanings

He had strange habits. He alienated himself from the public because of his

_____ .

    (1)   cleverness

    (2)   commonness

    (3)   sympathies

    (4)   idiosyncrasies

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 154 Question Id : 2099632239 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Meanings

When Raju listened to the heart-rending story of the old man, he felt ____

    (1)   empathetic

    (2)   emphatic

    (3)   empowered

    (4)   enamoured

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - C : COMMUNICATION ABILITY – Meanings

A <u>score</u> of my classmates attended the meeting.

    (1)   twenty

    (2)   thirty

    (3)   forty

    (4)   fifty

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - C : COMMUNICATION ABILITY – Synonyms and Antonyms

The synonym of 'authentic'

    (1)   unique

    (2)   replica

    (3)   model

    (4)   genuine

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 157 Question Id : 2099632242 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Synonyms and Antonyms

The synonym of 'regenerate'

(1)   revisit

(2)   retrace

(3)   revive

(4)   review

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 158 Question Id : 2099632243 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Synonyms and Antonyms

The synonym of <u>merchandise</u>

    (1)   service

    (2)   disservice

    (3)   ownership

    (4)   commodities

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 159 Question Id : 2099632244 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Synonyms and Antonyms

The antonym of 'antagonism'

    (1)   friendship

    (2)   resentment

    (3)   jealousy

    (4)   hostility

Options :

1. ✔ 1

2. ✖ 2

3. ✶ 3

4. ✶ 4

Question Number : 160 Question Id : 2099632245 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Synonyms and Antonyms

Synonym of 'guard'

(1) protect

(2) subdue

(3) move

(4) sit

Options :

1. ✔ 1

2. ✶ 2

3. ✶ 3

4. ✶ 4

Sub-Section Number:	3
Sub-Section Id:	209963246
Question Shuffling Allowed :	Yes

Question Number : 161 Question Id : 2099632246 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Verb (Tense & Voice)

I have been waiting for the bus _____ 5 p.m.

    (1)   for

    (2)   since

    (3)   from

    (4)   at

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 162 Question Id : 2099632247 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Verb (Tense & Voice)

They eagerly looked forward to _____ the movie on the big screen.

    (1)   watch

    (2)   watching

    (3)   have watched

    (4)   had watched

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 163 Question Id : 2099632248 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

SECTION - C : COMMUNICATION ABILITY – Verb (Tense & Voice)

The pilot likes to _____ alone.

    (1)   flew

    (2)   fly

    (3)   flies

    (4)   flown

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - C : COMMUNICATION ABILITY – Verb (Tense & Voice)

They _____ living in this flat for ten years.

    (1)   had been

    (2)   has been

    (3)   have been

    (4)   were

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - C : COMMUNICATION ABILITY – Verb (Tense & Voice)

Passive voice for "He gave a present."

(1) A present was given by him.

(2) A present had been given by him.

(3) A present gave him.

(4) He had been given a present.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - C : COMMUNICATION ABILITY – Phrasal Verbs and Idioms

The students _____ their teacher as their role model.

    (1)   look down upon

    (2)   look after

    (3)   look away

    (4)   look up to

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 167 Question Id : 2099632252 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Phrasal Verbs and Idioms

She paid the bill and _____ the hotel room and drove towards the airport.

    (1)   checked in

    (2)   checked out of

    (3)   checked up

    (4)   checked away

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - C : COMMUNICATION ABILITY – Phrasal Verbs and Idioms

He says he can get a first class; but <u>reading between the lines</u> I don't think he can.

The underlined idiom infers.

(1) He does not say what he intended

(2) He says what he meant

(3) He says after reading the lines in the book

(4) He is sure to get a first class

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

SECTION - C : COMMUNICATION ABILITY – Phrasal Verbs and Idioms

The thief _____ a locked house.

(1) broke up

(2) broke out

(3) broke into

(4) broke over

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✷ 4

SECTION - C : COMMUNICATION ABILITY – Phrasal Verbs and Idioms

You have to _____ the delay.

    (1)   account for

    (2)   account at

    (3)   account on

    (4)   account in

Options :

1. ✔ 1

2. ✷ 2

3. ✷ 3

4. ✷ 4

Sub-Section Number:	5
Sub-Section Id:	209963248
Question Shuffling Allowed :	Yes

The Principal of the school laid _____ a uniform policy for all the students.

    (1)   out

    (2)   on

    (3)   in

    (4)   for

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 172 Question Id : 2099632257 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Articles and Propositions

He tried to cope _____ the situation, but failed.

    (1)   up with

    (2)   with

    (3)   on with

    (4)   upon

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

SECTION - C : COMMUNICATION ABILITY – Articles and Propositions

He accomplished the task _____ dint of sheer hard work.

    (1)   with

    (2)   upon

    (3)   by

    (4)   through

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - C : COMMUNICATION ABILITY – Articles and Propositions

The hunter spotted a deer standing _____ the two trees.

    (1)   among

    (2)   on

    (3)   between

    (4)   with

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✗ 4

Question Number : 175 Question Id : 2099632260 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Articles and Propositions

The Ganges is _____ most sacred river.

(1) a

(2) the

(3) an

(4) any

Options :

1. ✔ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Sub-Section Number:	6
Sub-Section Id:	209963249
Question Shuffling Allowed :	Yes

Question Number : 176 Question Id : 2099632261 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

MIPS stands for

(1) Million Instructions Per Second

(2) Multiple Instructions Per Second

(3) More Instructions Processing Speed

(4) Million Innovations Per Second

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 177 Question Id : 2099632262 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Computer Terminology

HTML stands for

(1) Hyper Text Marker Language

(2)   Hyper Text Makeup Language

(3) Hyper Text Markup Language

(4) Hyper Text Marked Language

Options :

1. ✔ 1

2. ✶ 2

3. ✶ 3

4. ✶ 4

Question Number : 178 Question Id : 2099632263 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Computer Terminology

Using a person's unique characteristics to verify his identity including finger print

scanning, etc.

    (1)   Attendance Register

    (2)   Punching

    (3)   Biometric Authentication

    (4)   Blockchain

Options :

1. ✔ 1

2. ✶ 2

3. ✶ 3

4. ✶ 4

Question Number : 179 Question Id : 2099632264 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Computer Terminology

_____ is a network security device that prevents unauthorized access to an
operating system.

    (1)   Firewall

    (2)   Firefence

    (3)   Fireball

    (4)   Firefox

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 180 Question Id : 2099632265 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Computer Terminology

Megabyte is equal to

(1) 1048576 bytes

(2) 1084572 bytes

(3) 1184576 bytes

(4) 1048572 bytes

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number:	7
Sub-Section Id:	209963250
Question Shuffling Allowed :	Yes

Question Number : 181 Question Id : 2099632266 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

An individual or a company creating an original design can apply for a copyright or trademark on the designs. It is termed as _____ right.

(1)   Independent patent

(2)   Intelligible property

(3)   Intellectual property

(4)   Intelligent property

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 182 Question Id : 2099632267 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Business Terminology

_____ report is written by seniors of a company on existing employees who are due for promotion.

(1)   Performance

(2)   Standing committee

(3)   Formal

(4)   Problem solving

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 183 Question Id : 2099632268 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

SECTION - C : COMMUNICATION ABILITY – Business Terminology

ATM means

(1) Automated Teller Machine

(2) Automatic Teller Machine

(3) Anytime Teller Machine

(4) Automated Telling Machine

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 184 Question Id : 2099632269 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0
SECTION - C : COMMUNICATION ABILITY – Business Terminology

When two companies within the same industry and at the same stage in
production merge together, it is_____.

(1) vertical merger

(2) conglomerate merger

(3) congeneric merger

(4) horizontal merger

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✷ 4

Question Number : 185 Question Id : 2099632270 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Business Terminology

The act of invalidating specific currency

(1) Monetization

(2) Validization

(3) Adaptation

(4) Demonitization

Options :

1. ✔ 1

2. ✷ 2

3. ✷ 3

4. ✷ 4

Sub-Section Number:	8
Sub-Section Id:	209963251
Question Shuffling Allowed :	No

Question Id : 2099632271 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension
Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in
seconds) : 0 Calculator : None

Question Numbers : (186 to 190)

We crossed the stream on a log and then another log and on the other side, half way up the hillside, there was a deeply worn game trail that graded along the bank under the heavily leafed branches of the trees. We went along quite fast, but walking carefully, and below us, now, the stream bed was covered solidly with foliage. It was still early in the morning but the breeze was rising and the leaves stirred over our heads. We crossed one ravine that came down to the stream, going into the thick bush to be out of sight and stooping as we crossed behind trees in the small open place, then, using the shoulder of the ravine as protection, we climbed so that we might get high up the hillside above the buffalo and work down to them. We stopped in the shelter of the ridge, me sweating heavily and fixing a handkerchief inside the sweatband of my Stetson, and sent Droop ahead to look. He came back to say they were gone. From above, we could see nothing of them, so we cut across the ravine and the hillside thinking we might intercept them on their way down into the river bed. The next hillside had been burned and at the bottom of the hill there was a burned area of bush. In the ash dust were the tracks of the buffalo as they came down and into the thick jungle of the stream bed. Here it was too overgrown and there were too many vines to follow them. There were no tracks going down the stream so we knew they were down in the part of the stream bed we had looked down on from the game trail.

Sub questions

Question Number : 186 Question Id : 2099632272 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-1

The word that means 'thick greenery' in the passage is

(1)   ravine

(2)   track

(3)   foliage

(4)   vines

Options :

1. ✔ 1

2. ✱ 2

3. ✱ 3

4. ✱ 4

Question Number : 187 Question Id : 2099632273 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-1

They climbed up the hillside by safeguarding themselves behind the steep sides of the _____ .

(1) ravine

(2) stream

(3) river

(4) track

Options :

1. ✔ 1

2. ✱ 2

3. ✱ 3

4. ✱ 4

Question Number : 188 Question Id : 2099632274 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-1

When Droop says, "they were gone," he is referring to ___

(1) hunters

(2) poachers

(3) buffaloes

(4) bushrangers

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 189 Question Id : 2099632275 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-1

They were prevented from pursuing the tracks by _____

(1) ash dust

(2) stream

(3) hill side

(4) vines

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 190 Question Id : 2099632276 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

The word in the passage which means, "a path created by the repeated movement of wildlife through an area"

(1)   stream

(2)   game trail

(3)   bank

(4)   ridge

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number:	9
Sub-Section Id:	209963252
Question Shuffling Allowed :	No

Question Id : 2099632277 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Question Numbers : (191 to 195)

Lessons might have been a pleasure. They never were, or rather, only the Danish ones. But in childhood, and during the first years of boyhood they were fertilising. As a boy they hung over me like a dread compulsion; yet the compulsion was beneficial. It was only when I was almost fourteen that I began inwardly to rebel against the time which was wasted, that the stupidest and laziest of the boys might be enabled to keep up with the industrious and intelligent. There was too much consideration shown towards those who would not work or could not understand. And from the time I was sixteen, school was my despair. I had done with it all, was beyond it all, was too matured to submit to the routine of lessons; my intellectual pulses no longer beat within the limits of school. What absorbed my interest was the endeavour to become master of the Danish language in prose and verse, and musings over the mystery of existence. In school, I most often threw up the sponge entirely, and laid my head on my arms that I might neither see nor hear what was going on around me.

Sub questions

Question Number : 191 Question Id : 2099632278 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-2

What does the author mean when he says, "during the first years of boyhood they were fertilising"?

(1)   Lessons learnt during the first years of boyhood are enriching.
(2)   Lessons learnt during the first years of boyhood are forgotten.
(3)   Lessons learnt during the first years of boyhood are painful.
(4)   Lessons learnt during the first years of boyhood are awesome.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

Question Number : 192 Question Id : 2099632279 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-2

Consideration was shown to those students who could not____

(1) compete.

(2) comprehend.

(3) play.

(4) communicate.

Options :

1. ✔ 1

2. ✱ 2

3. ✱ 3

4. ✱ 4

Question Number : 193 Question Id : 2099632280 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-2

According to the author, school was his

(1) hopelessness.

(2) pleasure.

(3) fear.

(4) pain.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-2

The author did not appreciate the school's curriculum as it was

(1) exhaustive.

(2) severe.

(3) intense.

(4) limited.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-2

The author wanted to absorb himself in the thoughts on

(1) books.

(2) physical nature.

(3) mystery of existence.

(4) evolution.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number:	10	
Sub-Section Id:	209963253	
Question Shuffling Allowed :	No	

Question Id : 2099632283 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None

Question Numbers : (196 to 200)

The i-pad is the new pacifier for babies and toddlers. Young school aged children read stories on smart phones. A neuro-sciences study indicates, the acquisition of literacy necessitated a new circuit in our species brain more than 6000 years ago. That circuit evolved from a very simple mechanism for decoding based information, to the present, highly elaborated reading brain. Research in many parts of the world is now cautious that each of these essential 'deep reading' processes may be under threat as we move into digital-based modes of reading. When we innovate, we ignore what we disrupt or diminish while innovating. Mark Edmundson, a scholar and teacher, describes how college students no longer have the patience to read longer, denser, more difficult texts. There is a potential inability of large numbers of students to read with a critical analysis to comprehend the complexity of thought and argument found in more demanding texts.

Sub questions

Question Number : 196 Question Id : 2099632284 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-3

What does the acquisition of literacy require?

(1) A circuit in species brain.

(2) An analogical circuit in species brain.

(3) A digital circuit in species brain.

(4) A machine in species brain.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 197 Question Id : 2099632285 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-3

What is the threat with digital reading?

   (1)   Reading process

   (2)   Listening process

   (3)   Writing process

   (4)   Speaking process

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 198 Question Id : 2099632286 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-3

What happens with technological innovation in reading?

(1) Technological innovation has led to a increase in print reading.

(2) We ignore what we disrupt or diminish.

(3) Encouraging more young people to involve in innovation.

(4) Difference between developing products and developing ideas.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 199 Question Id : 2099632287 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Maximum Instruction Time(in seconds) : 0 Minimum Instruction Time(in seconds) : 0 Calculator : None
Correct Marks : 1 Wrong Marks : 0

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-3

What is the attitude of college students according to Mark Edmundson?

(1) Changing the way he teaches.

(2) Avoiding reading difficult texts.

(3) Unconcerned about learning.

(4) Interest in reading texts.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

SECTION - C : COMMUNICATION ABILITY – Comprehension Passage-3

What is the passage about?

(1)   Deep Reading Vs Digital based Reading.

(2)   Hidden effects of use of technology.

(3)   Encouraging use of technology.

(4)   Reduction in reading

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4