### LAACH



**Test Booklet Code** 

SS

This Booklet contains 24 pages.

Do not open this Test Booklet until you are asked to do so.

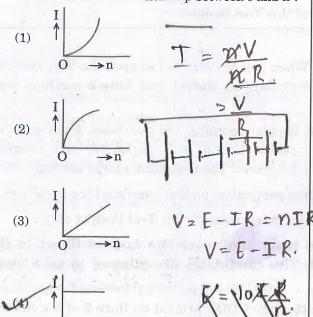
Read carefully the Instructions on the Back Cover of this Test Booklet.

#### Important Instructions:

- The Answer Sheet is inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars on Side-1 and Side-2 carefully with blue/black ball point pen only.
- The test is of 3 hours duration and this Test Booklet contains 180 questions. Each question
  carries 4 marks. For each correct response, the candidate will-get 4 marks. For each incorrect
  response, one mark will be deducted from the total scores. The maximum marks are 720.
- 3. Use Blue/Black Ball Point Pen only for writing particulars on this page/marking responses.
- 4. Rough work is to be done on the space provided for this purpose in the Test Booklet only.
- On completion of the test, the candidate must hand over the Answer Sheet to the Invigilator before leaving the Room/Hall. The candidates are allowed to take away this Test Booklet with them.
- 6. The CODE for this Booklet is SS. Make sure that the CODE printed on Side-2 of the Answer Sheet is the same as that on this Test Booklet. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet.
- The candidates should ensure that the Answer Sheet is not folded. Do not make any stray
  marks on the Answer Sheet. Do not write your Roll No. anywhere else except in the specified
  space in the Test Booklet/Answer Sheet.
- 8. Use of white fluid for correction is not permissible on the Answer Sheet.



A battery consists of a variable number 'n' of 4. identical cells (having internal resistance each) which are connected in series. The terminals of the battery are short-circuited and the current I is measured. Which of the graphs shows the correct relationship between I and n?

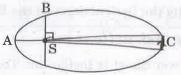


A set of 'n' equal resistors, of value 'R' each, are connected in series to a battery of emf 'E' and ternal resistance 'R'. The current drawn is I. E-lolk. Now, the 'n' resistors are connected in parallel to the same battery. Then the current drawn from = & X lo I Battery becomes 10 I. The value of 'n' is

E= lote (2) 1/20

- 3. A carbon resistor of  $(47 \pm 4.7)$  k $\Omega$  is to be marked rings, of different colours for identification. The colour code sequence will be Green - Orange - Violet - Gold
- Yellow Green Violet Gold
- Yellow Violet Orange Silver
  - Violet Yellow Orange Silver

The kinetic energies of a planet in an elliptical orbit about the Sun, at positions A, B and C are KA, KB and KC, respectively. AC is the major axis and SB is perpendicular to AC at the position of the Sun S as shown in the figure. Then



- $K_B > K_A > K_C$
- $K_B < K_A < K_C$

(a) 
$$K_A > K_B > K_C$$

- $K_A < K_B < K_C$
- If the mass of the Sun were ten times smaller and the universal gravitational constant were ten times larger in magnitude, which of the following is *not* correct?

'g' on the Earth will not change.

- Time period of a simple pendulum on the (2)Earth would decrease.
- Walking on the ground would become more (3)difficult.
- (4)Raindrops will fall faster.
- A solid sphere is in rolling motion. In rolling motion a body possesses translational kinetic energy (Kt) as well as rotational kinetic energy  $(K_r)$  simultaneously. The ratio  $K_t : (K_t + K_r)$  for the sphere is

2:5

- A solid sphere is rotating freely about its symmetry axis in free space. The radius of the sphere is increased keeping its mass same. Which of the following physical quantities would remain constant for the sphere?
- Angular momentum TW X.
- (2) Rotational kinetic energy 1 Tw 2.
- Moment of inertia

Angular velocity

AACH/SS/Page 2  $n^2 - lon + n - lolo \frac{3}{0}$  SPACE FOR ROUGH WORK n (h-10)+1 (n-10). n 210

English

- An astronomical refracting telescope will have 8. large angular magnification and high angular resolution, when it has an objective lens of small focal length and small diameter large focal length and large diameter (2) large focal length and small diameter (4) small focal length and large diameter Unpolarised light is incident from air on a plane 9. surface of a material of refractive index 'µ'. At a particular angle of incidence 'i', it is found that refracted reflected and perpendicular to each other. Which of the following options is correct for this situation? (1)  $i = tan^{-1} \left(\frac{1}{\mu}\right)$  for  $\mathfrak{D} = \mu$ .  $(2) \quad i = \sin^{-1} \left(\frac{1}{\cdot \cdot \cdot}\right)$ 
  - vector parallel to the plane of incidence V 10. In Young's double slit experiment the separation d between the slits is 2 mm, the wavelength λ of the light used is 5896 Å and distance D between the screen and slits is 100 cm. It is found that the

Reflected light is polarised with its electric

vector perpendicular to the plane of

angular width of the fringes is 0.20°. To increase 5.896 the fringe angular width to 0.21° (with same λ 2 x 3 and D) the separation between the slits needs to be changed to

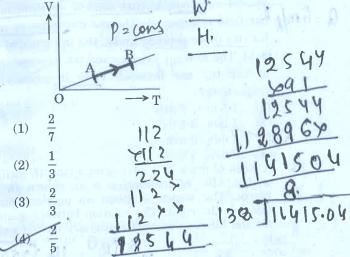
1.7 mm

(3)

incidence

- - 1.8 mm

The volume (V) of a monatomic gas varies with its temperature (T), as shown in the graph. The ratio of work done by the gas, to the heat absorbed by it, when it undergoes a change from state A to state B, is



The fundamental frequency in an open organ pipe is equal to the third harmonic of a closed organ pipe. If the length of the closed organ pipe is 20 cm, the length of the open organ pipe is

- 16 cm (1)
- 12.5 cm (2)
- (3)8 cm
- 13·2 cm
- 40,13.

The efficiency of an ideal heat engine working Reflected light is polarised with its electric 13. between the freezing point and boiling point of water, is

> 12.5% (1)

> > 20%

(2)6.25%

(3)

- 26.8% At what temperature will the rms speed of oxygen molecules become just sufficient for escaping from the Earth's atmosphere?

(Given: Mass of oxygen molecule (m) =  $2.76 \times 10^{-26}$  kg Boltzmann's constant  $k_B = 1.38 \times 10^{-23} \text{ J K}^{-1}$ 

- (1)  $1.254 \times 10^4 \text{ K}$

- (2)  $5.016 \times 10^4 \text{ K}$ (8)  $8.360 \times 10^4 \text{ K}$
- (4) 2·508×10<sup>4</sup> K

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(4)

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 $60^{\circ}$ 

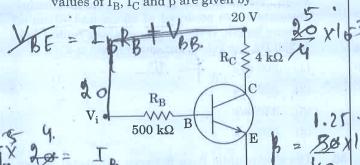
**English** 

(4)  $-8\hat{i} - 4\hat{j} - 7\hat{k}$ 

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23. In the circuit shown in the figure, the input voltage  $V_i$  is 20 V,  $V_{BE} = 0$  and  $V_{CE} = 0$ . The values of  $I_B$ ,  $I_C$  and  $\beta$  are given by



(1) 
$$I_B = 40 \mu A$$
,  $I_C = 5 \text{ mA}$ ,  $\beta = 125$ 

(2) 
$$I_B = 20 \mu A$$
,  $I_C = 5 \text{ mA}$ ,  $\beta = 250$ 

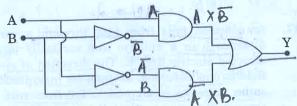
(3) 
$$I_B = 25 \mu A$$
,  $I_C = 5 m A$ ,  $\beta = 200$ 

(4) 
$$I_B = 40 \mu A$$
,  $I_C = 10 \text{ mA}$ ,  $\beta = 250$ 

24. In a p-n junction diode, change in temperature due to heating

affects the overall V – I characteristics of p-n junction

- (2) does not affect resistance of p-n junction
- (3) affects only forward resistance
- (4) affects only reverse resistance
- 25. In the combination of the following gates the output Y can be written in terms of inputs A and B as



(1) 
$$\overline{A + B}$$

(2) 
$$\overline{A.B} + A.B$$

(3) 
$$\overline{A} \cdot \overline{B} + \overline{A} \cdot B$$

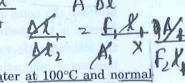
(4) A.B

The power radiated by a black body is P and it radiates maximum energy at wavelength,  $\lambda_0$ . If the temperature of the black body is now changed so that it radiates maximum energy at wavelength  $\frac{3}{4}\lambda_0$ , the power radiated by it becomes nP. The value of n is

27. Two wires are made of the same material and have the same volume. The first wire has cross-sectional area A and the second wire has cross-sectional area 3A. If the length of the first wire is increased by  $\Delta l$  on applying a force F, how much force is needed to stretch the second wire by the same amount?

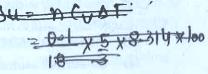
(1) F 
$$\wedge 0 - \text{Fl}$$
  $\sqrt{-\frac{1}{2}}$ 

$$(2) \quad 4F \qquad \Delta X = F A$$



A sample of 0·1 g of water at 100°C and normal pressure (1·013 × 10<sup>5</sup> Nm<sup>-2</sup>) requires 54 cal of heat energy to convert to steam at 100°C. If the volume of the steam produced is 167·1 cc, the change in internal energy of the sample, is

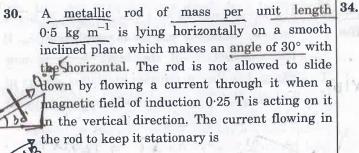
(2) 
$$42.2 J$$



29. A small sphere of radius 'r' falls from rest in a viscous liquid. As a result, heat is produced due to viscous force. The rate of production of heat when the sphere attains its terminal velocity, is proportional to

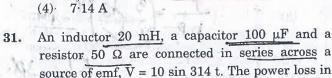
## $r^4$

- (2)  $\mathbf{r}^{\prime}$
- (3) r
- (4)



11.32 A

14.76 A



6

the circuit is (1)1.13 W

(2)2.74 W

(3)0.43 W

(4)0.79 W

A thin diamagnetic rod is placed vertically between the poles of an electromagnet. When the current in the electromagnet is switched on, then the diamagnetic rod is pushed up, out of the horizontal magnetic field. Hence the rod gains gravitational potential energy. required to do this comes from

the induced electric field due to the changing magnetic field

the lattice structure of the material of the

- (3) the magnetic field
  - the current source

Current sensitivity of a moving coil galvanometer is 5 div/mA and its voltage sensitivity (angular deflection per unit voltage applied) is 20 div/V. The resistance of the galvanometer is

 $500 \Omega$ 

 $250 \Omega$ 

 $25 \Omega$ (3)

(4)40 Ω

A tuning fork is used to produce resonance in a glass tube. The length of the air column in this tube can be adjusted by a variable piston. At room temperature of 27°C two successive resonances are produced at 20 cm and 73 cm of column length. If the frequency of the tuning fork is 320 Hz, the velocity of sound in air at 27°C is

> (1) 300 m/s

350 m/s (2)

339 m/s (3)

330 m/s

The electrostatic force between the metal plates 35. of an isolated parallel plate capacitor C having a charge Q and area A, is

> inversely proportional to the distance between the plates.

> proportional to the square root of the (2)distance between the plates.

> linearly proportional to the distance (3)between the plates.

> (4) independent of the distance between the plates.

A pendulum is hung from the roof of a sufficiently high building and is moving freely to and fro like a simple harmonic oscillator. The acceleration of the bob of the pendulum is 20 m/s<sup>2</sup> at a distance of 5 m from the mean position. The time period of oscillation is

W3 A = 264

W = 2.

An electron falls from rest through a vertical distance h in a uniform and vertically upward directed electric field E. The direction of electric field is now reversed, keeping its magnitude the same. A proton is allowed to fall from rest in it through the same vertical distance h. The time of fall of the electron, in comparison to the time of fall of the proton is

equal

10 times greater (2)

5 times greater (3)

smaller

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X1 = 314 × 20 × 10 = TCh.

	T . 1
pria= Ee V2=V,+	·tet· W
38. An electron of mass m with an initial velocity	12.) Three objects, A: (a solid sphere), B: (a thin
38. An electron of mass m with an initial velocity	circular disk) and C: (a circular ring), each have
$\overrightarrow{V} = \overrightarrow{V_0} \overrightarrow{i} (\overrightarrow{V_0} > 0)$ enters an electric field	the same mass M and radius R. They all spin
$v = v_0 + (v_0 > 0)$ enters an electric field	
$E = -E_0 \hat{i}$ (E <sub>0</sub> = constant > 0) at t = 0. If $\lambda_0$ is	with the same angular speed ω about their own
$\mathbf{E} = \mathbf{E}_0 1  (\mathbf{E}_0 = \text{constant} > 0) \text{ at } \mathbf{t} = 0. \text{ if } \lambda_0 \text{ is}$	symmetry axes. The amounts of work (W)
its de-Broglie wavelength initially, then its	required to bring them to rest, would satisfy the
to broght water and	relation
de-Broglie wavelength at time t is	1 4 001 2
1' 1'	$(1)  W_{A} > W_{C} > W_{B} \qquad \qquad \frac{1}{3}  \frac{1}{2}  (0)^{2}$
(1) $\lambda_0$ $\lambda_0 = \frac{1}{2}$	
* Mall	$(2)  W_B > W_A > W_C \qquad \qquad$
(2) $\lambda_0 t$	(6) W - W - W
All the second of the second o	$(3)  W_A > W_B > W_C$
eEo )	$W_C > W_B > W_A$
$(3)  \lambda_0 \left( 1 + \frac{eE_0}{mV_0} t \right) \qquad \lambda_0 = \frac{h}{h}$	"C "B "A
	1 111
The state of the s	43. A body initially at rest and sliding along a
$\frac{\lambda_0}{\left(1 + \frac{eE_0}{mV_0}t\right)} \qquad \lambda = \frac{h}{m(y + \xi e)}$	frictionless track from a height h (as shown in
( eEo )	the figure) just completes a vertical circle of
$1+\frac{\partial B_0}{\partial t}t$ m $M+P$	diameter AB = D. The height h is equal to
$\left[1+\frac{eE_0}{mV_0}t\right]$ $m\left(x+\frac{Ee}{E}\right)$	Chameter AD - D. The neight it is equal to
M. M. M.	
39. The ratio of kinetic energy to the total energy of	mark-D
The state of the s	h B
an electron in a Bohr orbit of the hydrogen atom,	
is	2 1 10 0 1
(1) 1 0	A
$(1)  1:-2 \qquad \qquad m \vee + m \in A$	1. 2 2/1
(2) 2:-1	4) =D
The state of the s	4
(8) 1:-1	n-D=2
$(4) 1:1 \qquad \overline{\lambda}  \overline{\lambda}_0$	(2) $\frac{7}{5}$ D
	5 4
<b>40.</b> When the light of frequency $2v_0$ (where $v_0$ is	(0) D
threshold frequency), is incident on a metal	(3) D $r$
plate, the maximum velocity of electrons emitted	3- 1=Un-4.
	$(4)  \frac{3}{2}D \qquad + \mathcal{L} \qquad \qquad$
is v <sub>1</sub> . When the frequency of the incident	4
radiation is increased to $5v_0$ , the maximum	44. Which one of the following statements is
	incorrect?
velocity of electrons emitted from the same plate	
is $v_2$ . The ratio of $v_1$ to $v_2$ is $v_3$ .	Coefficient of sliding friction has
	dimensions of length.
(1) 2:1	(2) Frictional force opposes the relative motion. $\checkmark$
(2) $4:1$	The same of the sa
	(3) Limiting value of static friction is directly
$(3)  1:4 \qquad \qquad \bigvee_{1} \qquad \qquad \bigvee_{2} \qquad \qquad \bigvee_{3} \qquad \qquad \bigvee_{4} \qquad \bigvee_{4} \qquad $	proportional to normal reaction.
(4) 1:2	(4) Rolling friction is smaller than sliding
V2	
41. For a radioactive material, half-life is	friction.
	45. A moving block having mass m, collides with
10 minutes. If initially there are 600 number of	another stationary block having mass 4m. The
nuclei, the time taken (in minutes) for the	lighter block comes to rest after collision. When
disintegration of 450 nuclei is	
disintegracion di 450 nuclei is	the initial velocity of the lighter block is v, then
(1) 15	the value of coefficient of restitution (e) will be
	(1) 0·4 1 1 1 4 m/ 1/
(2) 30 $V_{SS} = V_{SS} = V_{$	- WOU = 7 M
(3) 10 , , , , ,	(2) 0.8,
1 (	(3) 0.25 V = V
(4) 20	(4) 0.5
47-1	(1)
LAACH/SS/Page 7 SPACE FOR R	OUGH WORK VI- O - O - English
LANDINOSIF age I	V= 0 = e 1 _ 0
M = 2	1 V
1	C = 4,
	W 2 TA
	7 2 CN. (-)
	4

46. The similarity of bone structure in the forelimbs of many vertebrates is an example of  (1) Adaptive radiation					in Column I with those in the <i>correct</i> option given
(2) Convergent evolution	bel	ow:			
(3) Analogy		Colu	mn I		Column II
Homology .					
47. In which disease does mosquito transmitted	a.	Glyc	osuria	<b>/</b> 1.	Accumulation of uric acid in joints
pathogen cause chronic inflammation of lymphatic vessels?	b.	Gout		ji.	Mass of crystallised salts within the kidney
(1) Amoebiasis	c.	Rena	l calcul	iii /i	Inflammation in
(2) Ringworm disease		4		V	glomeruli
(3) Ascariasis	d.	Glom	erulær		Drogomos of alassas
(4) Elephantiasis	u.	neph		1/4	Presence of glucose in urine
<b>48.</b> Conversion of milk to curd improves its nutritional value by increasing the amount of	5110	٠.	b	c	d
(1) Vitamin E	(1)	iv	i	ii	iii
Vitamin B <sub>12</sub>	(2)	ii	iii	i	iv
(3) · Vitamin A	(3)	i	ii	iii	iv
(4) ,Vitamin D	(4)	iii	ii		1
49. Which of the following characteristics represent	10 有	VIII.	11	1V	1
'Inheritance of blood groups' in humans?	<b>53.</b> Mat	ch the	items g	iven i	n Column I with those in
a. Dominance					he correct option given
b. Co-dominance	belo	w':	6		
c. Multiple allele		Colum	nn I		Column II
d. Incomplete dominance	design F	(Func			(Part of Excretory
e. Polygenic inheritance		(1 0000	20010)		System)
(1) a, c and e	a.	TIltma	filtratio		The state of the s
(2) b, d and é	a.	Oura	mtratio	1	. Henle's loop
(4) b, c and e $\rightarrow$ homology	b.	Conce of uri	entration ne	1	ii. Ureter
50. Among the following sets of examples for divergent evolution, select the incorrect option:	/// c.	Trans urine	port of	1	iii. Urinary bladder
Eye of octopus, bat and man	d.	Store	ge of uri	no	iv. Malpighian
(2) Brain of bat, man and cheetah	u.	Diorag	se or arr	ile.	corpuscle
(3) Heart of bat, man and cheetah V					
(4) Forelimbs of man, bat and cheetah	To published		III. wales		v. Proximal convoluted tubule
Which of the following is not an autoimmune disease?		a	b	c	d
(1) Vitiligo	(1)	v	iv	i	iii
Alzheimer's disease	(2)	v V	iv	j. 1	it was on
(3) Rheumatoid arthritis	(9)	- ' ·	Service To	70	
(4) Psoriasis $\checkmark$	(0)	iv	i .	-11	III ·
1 17-08 19-	(4)	iv	v	·ii	iii
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- 54. The contraceptive 'SAHELI'
  - (1) is a post-coital contraceptive.
  - (2) is an IUD.
  - (3) increases the concentration of estrogen and prevents ovulation in females.  $\mathbf{X}$
  - blocks estrogen receptors in the uterus, preventing eggs from getting implanted.
- The amnion of mammalian embryo is derived from
  - (1) ectoderm and endoderm
  - (2) mesoderm and trophoblast
  - (3) endoderm and mesoderm
  - (4) ectoderm and mesoderm
  - 56. The difference between spermiogenesis and spermiation is
    - In spermiogenesis spermatozoa are formed, while in spermiation spermatozoa are released from sertoli cells into the cavity of seminiferous tubules.
    - (2) In spermiogenesis spermatozoa from sertoli cells are released into the cavity of seminiferous tubules, while in spermiation spermatozoa are formed.
    - (3) In spermiogenesis spermatozoa are formed, while in spermiation spermatids are formed.
    - (4) In spermiogenesis spermatids are formed, while in spermiation spermatozoa are formed.
  - **57.** Hormones secreted by the placenta to <u>maintain</u> pregnancy are
    - (1) hCG, progestogens, estrogens, glucocorticoids
    - (2) hCG, hPL, progestogens, estrogens
      - (3) hCG, hPL, estrogens, relaxin, oxytocin
      - (4) hCG, hPL, progestogens, prolactin

- 58. Which of the following gastric cells indirectly help in erythropoiesis?
  - (1) Parietal cells
  - (2) Goblet cells
  - (3) Mucous cells
  - (4) Chief cells
- 59. Match the items given in Column I with those in Column II and select the *correct* option given below:

	$Column\ I$		Column II
a.	Fibrinogen	1.	Osmotic balance
b.	Globulin	×ii.	Blood clotting -
c.	Albumin	jii.	Defence mechanism
	1	يستنسر	

b	c
iii	<u>'i</u> ,
iii 🥳	ii
e ii 🕤	iii
	iii iii

- 60. Calcium is important in skeletal muscle contraction because it
  - (1) prevents the formation of bonds between the myosin cross bridges and the actin filament.
  - (2) detaches the myosin head from the actin filament.
  - (3) activates the myosin ATPase by binding to it.
  - binds to troponin to remove the masking of active sites on actin for myosin.
- **61.** Which of the following is an occupational respiratory disorder?
  - (1) Emphysema
  - (2) Botulism
  - Silicosis
    - (4) Anthracis

62. Match the items given in Column I with those in Column II and select the correct option given	a beddette from the coding
Delow:	strand of a gene. What will be the corresponding sequence of the transcribed mRNA?
Column 11	(1) UCCAUAGCGUA
1 C I I I I I I I I I I I I I I I I I I	(2) ACCUAUGCGAU
M. Deforestation	(3) UGCTUTCGCAT
c. Snow blindness Nii. Nutrient	
enrichment	AGGUAUCGCAU AGGUAUCGCAU
d. Jhum cultivation iv. Waste disposal	68. A woman has an X-linked condition on one of her
a b c d	X chromosomes. This chromosome can be
(1) i ii iv iii	inherited by
(2) iii iv i ii	Both sons and daughters
(3) i iii iv ii	(2) Only grandchildren
(4) ii i iii iv	(3) Only sons
Which one of the following population	(4) Only daughters
interactions is widely used in medical science for the production of antibiotics?	69. Match the items given in Column I with those in
Amensalism — O	Column II and select the correct option given
(2) Parasitism	below:
(3) Mutualism	Column I Column II
	a. Proliferative Phase i. Breakdown of
(4) Commensalism + 0 > 64. Which part of poppy plant is used to obtain the	endometrial lining
drug "Smack"?	
(1) Leaves	b. Secretory Phase
(2) Roots	c. Menstruation hii. Luteal Phase
V2) Latex	a b c
(4) Flowers	(1) iii i iii
Towards	Linear Annual Language and Language Control of the
65. In a growing population of a country,	The state of the s
(1) pre-reproductive individuals are less than the reproductive individuals.	(3) i iii ii (4) iii ii i
(2) roproductive	Summer and present the property of the property of the party of the pa
individuals are equal in number.	and operon except
(3) reproductive individuals are less than the	(1) a promoter
post-reproductive individuals.	(2) an enhancer
pre-reproductive individuals are more than	(3) structural genes
the reproductive individuals.	(4) an operator
66. All of the following are included in 'Ex-situ conservation' except	71. According to Hugo de Vries, the mechanism of evolution is
(1) Seed banks	(1) Minor mutations
(2) Botanical gardens	
Sacred groves	3
(4) Wildlife safari parks	(3) Saltation
1.4.4.011/00/19	(4) Multiple step mutations
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	91011

(F)	Which of the following options correctly represents the lung conditions in asthma and emphysema, respectively?	75. Which of the following is an amino acid derived hormone?
	(1) Decreased respiratory surface; Inflammation of bronchioles	(1) Estriol
	(2) Increased respiratory surface;	(2) Estradiol
	Inflammation of bronchioles (3) Increased number of bronchioles; Increased	(3) Ecdysone
	respiratory surface X' Inflammation of bronchioles; Decreased	Epinephrine
	respiratory surface  Match the items given in Column I with those in  Column II and select the <i>correct</i> option given	Which of the following structures or regions is
	below:  Column I  Column II  a. Tricuspid valve i Between left atrium	(1) Corpus callosum : band of fibers connecting left and right cerebral
k	and left ventricle  ii. Between right  ventricle and  pulmonary artery	(2) Hypothalamus : production of releasing hormones and regulation of
c		temperature, hunger and thirst.  Limbic system : consists of fibre
	a b c	tracts that
	1) ii i iii 2) i ii iii	interconnect different regions of
(3)		brain; controls movement.
C	iii i <u>ii</u> Latch the items given in Column I with those in column II and select the <i>correct</i> option given	(4) Medulla oblongata: controls respiration and cardiovascular reflexes.
b	elow :	77. Which of the following hormones can play a
a.		significant role in osteoporosis?  (1) Parathyroid hormone and Prolactin
b.		Estrogen and Parathyroid hormone
c.	Expiratory Reserve iii. 500 – 550 mL volume	<ul><li>(3) Progesterone and Aldosterone</li><li>(4) Aldosterone and Prolactin</li></ul>
d.	Residual volume iv: 1000 – 1100 mL a b c d	The transparent lens in the human eye is held in its place by
(1)	iv iii i i	(1) smooth muscles attached to the ciliary body

(4) iii

ii

(2)

(3)

iii

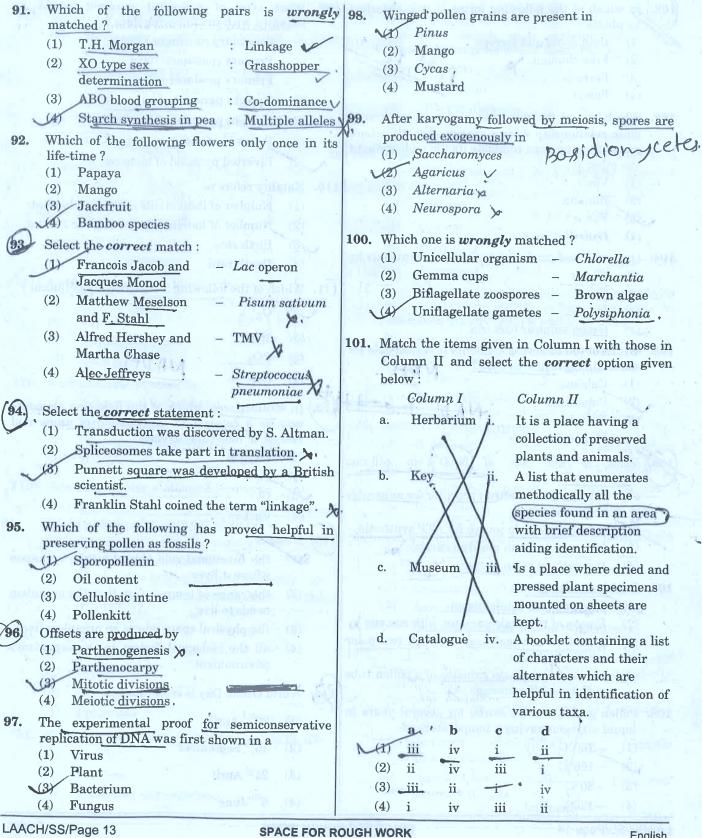
ii

smooth muscles attached to the iris

ligaments attached to the ciliary body

ligaments attached to the iris

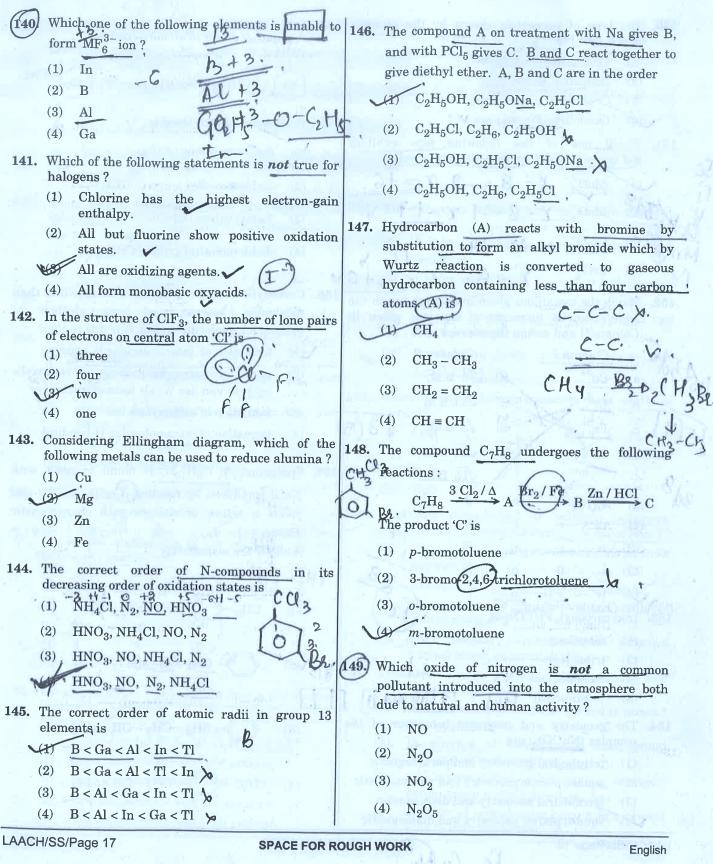
79. Which of the following terms describe human dentition?	characterized by crop and gizzard in its digestive
(1) Pleurodont, Diphyodont, Heterodont	system.
	(1) Osteichthyes
	42) Aves
Thecodont, Diphyodont, Heterodont	(3) Reptilia
(4) Thecodont, Diphyodont, Homodont	(4) Amphibia
Which of the following events does not occur in	TO THE PROPERTY OF THE PARTY OF
rough endoplasmic reticulum?	86. Ciliates differ from all other protozoans in
A) Phospholipid synthesis	having two types of nuclei
(2) Cleavage of signal peptide	(2) using pseudopodia for capturing prey
(3) Protein glycosylation	(3) having a contractile vacuole for removing excess water $\lambda$
(4) Protein folding	
81. Select the incorrect match:	(4) using flagella for locomotion
Polytene - Oocytes of amphibians	87. Which of the following animals does not undergo
chromosomes	metamorphosis?
(2) Submetacentric – L-shaped chromososmes	(1) Starfish
chromosomes	(2) Moth
(3) Allosomes – Sex chromosomes (4) Lampbrush – Diplotene bivalents	(3) Tunicate
(4) Lampbrush – Diplotene bivalents chromosomes	(4) Earthworm
The state of the s	88. Which of the following features is used to identify
82. Nissl bodies are mainly composed of	88. Which of the following features is used to identify a male cockroach from a female cockroach?
Free ribosomes and RER	(1) Presence of anal cerci
(2) Nucleic acids and SER	(2) Forewings with darker tegmina
(3) DNA and RNA	Presence of caudal styles
(4) Proteins and lipids	(4) Presence of a boat shaped sternum on the
83. Many ribosomes may associate with a single	oth abdominal segment
mRNA to form multiple copies of a polypeptide	
simultaneously. Such strings of ribosomes are termed as	89. Which of the following organisms are known as chief producers in the oceans?
(1) Nucleosome	(1) Euglenoids
(2) Plastidome	
(3) Polyhedral bodies	(2) Cyanobacteria (2) Diatoms
Polysome	Taring the second state of
See a later to the second of t	(4) Dinoflagellates
84. Which of these statements is <i>incorrect</i> ?	90. Which one of these animals is not a
Oxidative phosphorylation takes place in outer mitochondrial membrane.	homeotherm?
The state of the s	(1) Psittacula
(2) Glycolysis operates as long as it is supplied with NAD that can pick up hydrogen atoms	(2) Camelus
(3) Glycolysis occurs in cytosol.	(8) Chelone +119.Hp
(4) Enzymes of TCA cycle are present in	000000
mitochondrial matrix.	(4) Macropus
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EANOTHOUT age 12	



102. In which of the following forms is iron absorbed	109. What type of ecological pyramid would b
(1) Poth C 1 C	obtained with the following data?
(2)	Secondary consumer : 120 g
(2) Free element (3) Ferrous	Primary consumer : 60 g
(4) Ferric	Primary producer : 10 g
103. Which one of the following plants shows a ver	(1) Upright pyramid of biomass
close relationship with a species of moth wher	a Christit pyramid of numbers
none of the two can complete its life cycle withou the other?	t (3) Pyramid of energy
(1) Viola	Inverted pyramid of biomass
(2) Banana	110. Natality refers to
Yucca	(1) Number of individuals entering a habitat
(4) Hydrilla	(2) Number of individuals leaving the habitat
104. Oxygen is <b>not</b> produced during photosynthesis by	Birth rate
Chara	(4) Death rate
(2) Cycas	111. Which of the following is a secondary pollutant?
(3) Nostoc	(A) O <sub>3</sub>
Green sulphur bacteria	
105. Which of the following elements is responsible for maintaining turgor in cells?	(3) CO <sub>2</sub>
(1) Calcium	(4) CO NADH
Potassium	
(3) Sodium	In stratosphere, which of the following elements
(4) Magnesium	acts as a catalyst in degradation of ozone and release of molecular oxygen?
What is the role of (NAD+) in cellular	(1) Oxygen
respiration?	(2) Fe
(1) It is the final electron acceptor for anaerobic respiration.	(3) CI
It is a nucleotide source for ATP synthesis.	(4) Carbon
(3) It functions as an electron carrier.	(13) Niche is
(4) It functions as an enzyme.	the functional role played by the organism
107. Double fertilization is	where it lives
Syngamy and triple fusion	(2) the range of temperature that the organism
(2) Fusion of two male gametes with one egg	needs to live
(3) Fusion of one male gamete with two polar nuclei	(3) the physical space where an organism lives (4) all the biological factors in the organism?
(4) Fusion of two male gametes of a pollen tube	(4) all the biological factors in the organism's environment
with two different eggs	
108. Pollen grains can be stored for several years in	World Ozone Day is celebrated on
inquid nitrogen having a temperature of	(1) 22 <sup>nd</sup> April
(1)160°C	(2) 16 <sup>th</sup> September
(2) -196°C	THE PARTY OF THE P
(3) -80°C (4) -120°C	(3) 21 <sup>st</sup> April
1 (4) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	(4) 5 <sup>th</sup> June
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115.	Whi	ch of the following statements is <b>correct</b> ?	122.	A '	new' variety of rice was patented by a foreign
	(1)	Stems are usually unbranched in both		cor	npany, though such varieties have been
		Cycas and Cedrus.		pre	esent in India for a long time. This is related to
	(2)	Horsetails are gymnosperms.	1 N	(1)	Basmati
	(3)	Selaginella is heterosporous, while Salvinia		(2)	Lerma Rojo
	1	is homosporous.	5.	(3)	Sharbati Sonora
,	141	Ovules are not enclosed by ovary wall in gymnosperms.		(4)	Co-667
116.		ondary xylem and phloem in dicot stem are duced by	123.	vec	aich of the following is commonly used as a extor for introducing a DNA fragment in human apphocytes?
	(1)	Axillary meristems		(1)	pBR 322
	(2)	Phellogen	~-18	(2)	λ phage
	س(3)	Vascular cambium	COS.	(3)	A DELL'AND THE RESERVE OF THE PERSON OF THE
	(4)	Apical meristems	444		Ti plasmid
117	Swe	et potato is a modified	1 7	(4)	Retrovirus
	(1)	Rhizome W	124.		e of bioresources by multinational companies d organisations without authorisation from the
	(2)	Tap root	74 3		a organisations without authorisation from the accerned country and its people is called
	(3)	Adventitious root	1 6	(1)	Bioexploitation
	(4)	Stem %	est n	(2)	Biodegradation
110		imatophores occur in	2	(3)	Biopiracy
110.	(1)	Submerged hydrophytes	at	(4)	Bio-infringement
	(2)	Carnivorous plants	195	Sol	out the approach metals .
	(3)	Free-floating hydrophytes	120.	(1)	ect the <u>correct match</u> :  G. Mendel – Transformation )
	(4)	Halophytes	No and	(2)	
A	0.1	. San J.			T.H. Morgan – Transduction
(1193)		ct the wrong statement:	×7.5	(3)	F <sub>2</sub> ×Recessive parent - Dihybrid cross
nlize	(1)	Mitochondria are the powerhouse of the cell in all kingdoms except Monerator	~	(4)	Ribozyme PNA - Nucleic acid
1	(2)	Pseudopodia are locomotory and feeding	126.	The	c correct order of steps in Polymerase Chain
	1 320	structures in Sporozoans.		(1)	Denaturation, Annealing, Extension
	(3)	Mushrooms belong to Basidiomycetes.		(2)	Denaturation, Extension, Annealing
	(4)	Cell wall is present in members of Fungi		(3)	Annealing, Extension, Denaturation
		and Plantae.		(4)	Extension, Denaturation, Annealing
120.	Casp	arian strips occur in	nile o		
	(1)	Endodermis	127.		India, the organisation responsible for
	(2)	Cortex			essing the safety of introducing genetically diffed organisms for public use is
1.1	(3)	Pericycle	N.	(1)	Genetic Engineering Appraisal Committee
	(4)	Epidermis			(GEAC)
	-	ts having little or no secondary growth are		(2)	Research Committee on Genetic
		Cycads		(6)	Manipulation (RCGM)
	(2)	Conifers  Decidence angiognerus		(3)	Council for Scientific and Industrial Research (CSIR)
	(3)	Deciduous angiosperms Grasses		(4)	Indian Council of Medical Research (ICMR)
1000	(±)		150.50	3 3	
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128. The stage during which separation of the paired homologous chromosomes begins is	<b>136.</b> On which of the following properties does the coagulating power of an ion depend?
(1) Zygotene	(1) The sign of charge on the ion alone
(2) Diakinesis	
(3) Diplotene	Both magnitude and sign of the charge on the ion
(4) Pachytene Y	(3) Size of the ion alone
129. The Golgi complex participates in	
(1) Activation of amino acid D	(4) The magnitude of the charge on the ion alone $3\alpha^2 + 50\alpha^2$
	100 000 000
(2) Respiration in bacteria	137. The solubility of $BaSO_4$ in Swater is $2.42 \times 10^{-3}$ gL <sup>-1</sup> at 298 K. The value of its
Formation of secretory vesicles	
(4) Fatty acid breakdown	solubility product (K <sub>sp</sub> ) will be
130/ Stomatal movement is <b>not</b> affected by / S.	(Given molar mass of BaSO <sub>4</sub> = $233 \text{ g mol}^{-1}$ )
(1) CO <sub>2</sub> concentration   10% 8 (3/43)	$(10^{-3})^{(1)}$ $1.08 \times 10^{-8}$ mol <sup>2</sup> L <sup>-2</sup> $1.08 \times 10^{-8}$ ksp = $5 \times 3$ .
(2) O <sub>2</sub> concentration (2) O <sub>2</sub> concentration	14 -2 -2
(3) Light 203.	$(2)$ $1.08 \times 10^{-14} \text{ mol}^2 \text{ L}^{-2}$ $ .08 \times 10^{-10}$
Temperature 8304	(3) $1.08 \times 10^{-12} \text{ mol}^2 \text{ L}^{-2}$
131. The two functional groups characteristic of	10 9 9
sugars are	$1.08 \times 10^{-10} \mathrm{mol^2  L^{-2}}$
carbonyl and hydroxyl 331 842	138. Given van der Waals constant for MA2, H2, O2
(2) carbonyl and phosphate	and CO <sub>2</sub> are respectively (.17) 0.244, 1.36 and
(3) carbonyl and methyl	3.59, which one of the following gases is most
(4) hydroxyl and methyl	easily liquefied?
132. Which of the following is not a product of light	(1) CO <sub>2</sub>
reaction of photosynthesis?	
(1) Oxygen	
(2) NADPH	Ч <del>†</del> (3) Н <sub>2</sub>
(3) NADH	(4) NH <sub>3</sub>
(4) ATP	139. Following solutions were prepared by mixing
133. Stomata in grass leaf are	different volumes of NaOH and HCl of different
(1) Barrel shaped	concentrations:
(2) Rectangular	M NOW
(3) Kidney shaped	a. $60 \text{ mL } \frac{\text{M}}{10} \text{ HCl} + 40 \text{ mL } \frac{\text{M}}{10} \text{ NaOH}$
Dumb-bell shaped	$\delta \leq b$ . 55 mL $\frac{M}{10}$ HCl + 45 mL $\frac{M}{10}$ NaOH
134. Which of the following is true for nucleolus?	$\delta$ 5 b. 55 mL $\frac{M}{10}$ HCl + 45 mL $\frac{M}{10}$ NaOH
(1) It is a site for active ribosomal RNA	c. $^{15}_{75 \text{ mL}} \frac{M}{5}_{15 \text{ HCl}} + 25 \frac{S}{\text{mL}} \frac{M}{5}_{15 \text{ NaOH}}$
synthesis.	c. $75 \text{ mL} - HCl + 25 \text{ mL} - NaOH$
(2) It takes part in spindle formation.	100 M HOLL 100 M N. OH
(3) It is a membrane-bound structure.	d. $\frac{M}{100 \text{ mL}} \frac{M}{10} \text{ HCl} + 100 \text{ mL} \frac{M}{10} \text{ NaOH}$
(4) Larger nucleoli are present in dividing cells.	pH of which one of them will be equal to 1?
135. Which among the following is <b>not</b> a prokaryote?	(1) c house magazinill mondance, all in
(1) Oscillatoria	(2) d > .
(2) Nostoc	(3) a political type
(3) Mycobacterium	(4) be superplurative manifold that 3
(A) Saccharomyces	
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			100
150.	The type of isomerism shown by the complex	<b>155.</b> In the reaction	The state of the s
	$[\text{CoCl}_2(\text{en})_2]$ is	ОН	O-Na+
	(1) Linkage somerism >0	La the transfer of the same	СНО
	(2) Ionization isomerism	$\left[ \bigcirc \right]$ + CHCl <sub>3</sub> + NaOH $-$	$\rightarrow$ [0] one
	(3) Coordination isomerism	La Variation of the Control of the C	STE IN THE ST
	(4) Geometrical isomerism V	the electrophile involved is	
151.	Which one of the following ions exhibits d-d transition and paramagnetism as well?	dichlorocarbene (:CCl <sub>2</sub> )	Mar Sheligh Orth
	$MnO_4^2 V - 8 = -2 V = +6$	(2) dichloromethyl anion (	$\operatorname{CHCl}_2$ )
WAS	MnO4 2-81 2=+7, 2.	(3) formyl cation (CHO)	erating .
n (g)	(3) $\frac{\text{Cr}_2\text{O}_7^{2-}}{\text{CrO}_4^{2-}}$ $2Y - 1Y = -2$ $Y = +6$	(4) dichloromethyl cation (	$_{\mathrm{CHCl}_{2})}^{\oplus}$
e.	(4) $\text{CrO}_4^{2-}$ $\chi - 8 = -2 \chi = +6$	V	State Control
152.	Match the metal ions given in Column I with the spin magnetic moments of the ions given in Column II and assign the <i>correct</i> code:	156. Carboxylic acids have higher aldehydes, ketones and comparable molecular mass.	even alcohols of
16	Column I Column II	formation of intermole	cular H-bonding
ha-	a. $Co^{3+}$	(2) more extensive associated via van der Waals	
19	b. $Cr^{3+}$ ii. $\sqrt{35}$ B.M.	(3) formation of carboxyla	te ion
(7)	c. $Fe^{3+}$ iii. $\sqrt{3}$ B.M. $\sqrt{3}$ (5)	(4) formation of intramole	
SHIP	d. $Ni^{24}$ iv. $\sqrt{24}$ B.M.	Company of the company of the company	damin introduction
. n.	√15 B.M.	<b>157.</b> Compound A, $C_8H_{10}O$ , is	found to react with
Jo	a b c d	NaOI (produced by reacting	(Y) with NaOH) and
1 1/45	(1) iii v i ii	yields a yellow precipitate	e with characteristic
		smell.	
	(2) iv i ii iii	A and hare respectively	and the first transfer of
	(3) i iii iii iv	CH3-CH-	o many many special
10	(a) iv v ii i		17 \
153	Iron carbonyl, Fe(CO) <sub>5</sub> is	(1) CH <sub>3</sub> — OH an	
	(1) dinuclear	THE STREET	ALLEY THE
	(2) trinuclear	CH - CH <sub>3</sub> ar	$\operatorname{ad} \operatorname{I}_2$
	(3) mononuclear 45 30	40	nt men share
	(4) tetranuclear AV AVAIA	OH OH	
154.	The geometry and magnetic behaviour of the complex [Ni(CO) <sub>4</sub> ] are	(3) CH <sub>2</sub> - CH <sub>2</sub> -	OH and I <sub>2</sub>
	(1) tetrahedral geometry and paramagnetic		
	(2) square planar geometry and paramagnetic	(4) H <sub>3</sub> C — CH <sub>2</sub> –	OH and I <sub>2</sub>
	(3) tetrahedral geometry and diamagnetic	1,70	

square planar geometry and diamagnetic

Bx2 = 1By2. X2+Y2 -> 2x	Y		
The bond dissociation energies of X2, Y2 and XX	- A	A n	nixture of 2.3 g formic acid and 4.5 g oxalic
are in the ratio of $1:0.5:1$ . $\Delta H$ for the formation	$_{\rm n}$	/	d is treated with conc. H <sub>2</sub> SO <sub>4</sub> . The evolved
of XY is -200 kJ mol <sup>-1</sup> . The bond dissociation	n		eous mixture is passed through KOH pellets.
energy o $X$ will be $\Delta H = B[x-x] + B[y]$	-y7	We	ight (in g) of the remaining product at STP
400 kJ mol <sup>-1</sup>		will	1 be H COOH + (COOH)
(2) $800 \text{ kJ mol}^{-1}$ $- \lambda B[\chi -$	7)	(1)	4.4
(3) 100 kJ mol <sup>-1</sup> , by 1 9 Q	rd.	(2)	2.8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	× .	(3)	3.0
40	¥2.	(4)	1.4
159. When initial concentration of the reactant is	164		difference between amylose and amylopectin
dou <u>bled, the half-life period of a zero order</u> reaction	m o	is	or of landusodnes pinallist segra hinter 1991
(1) remains unchanged		(1)	Amylose is made up of glucose and galactose
(2) is tripled		(2)	Amylopectin have $1 \rightarrow 4$ $\alpha$ -linkage and
is doubled	100		$1 \rightarrow 6$ $\beta$ -linkage
(4) is halved		(3)	Amylose have $1 \rightarrow 4$ $\alpha$ -linkage and
160. The correction factor 'a' to the ideal gas equation			$1 \rightarrow 6 \beta$ -linkage
corresponds to	1	JAY T	Amylopectin have $1 \rightarrow 4$ $\alpha$ -linkage and
forces of attraction between the gas			$1 \rightarrow 6 \alpha$ -linkage
molecules	165.	Whi	ch of the following oxides is most acidic in
(2) electric field present between the gas molecules	1,150	natu	
	6	(1)	CaO Be
(4) don-it		(2)	BaO My
(4) density of the gas molecules $2.2 \times = 6$	1-2	(3)	BeO Cons
161. For the redox reaction	0	(4)	MgO
$2MnO_4 + C_2O_4^2 + H^+ \longrightarrow Mn^{2+} + CO_2 + H_2O_4$	166		arding cross-linked or network polymers,
the correct coefficients of the reactants for the		(1)	the of the following statements is incorrect?
Abalanced equation are		(1)	They contain strong covalent bonds in their polymer chains.
$ \frac{1}{2} $		(2)	Examples are bakelite and melamine.
(1) 5 16 2		(3)	They are formed from bi- and tri-functional
(2) $2$ $(3)$ $(2)$ $(3)$ $(4)$ $(4)$ $(4)$			monomers
(3) 2 5 16 x		(4)	They contain covalent bonds between various linear polymer chains.
(4) 16 5 2	167.	Nitra	ation of aniline in strong acidic medium also
162. Which one of the following conditions will favour	1011	gives	s m-nitroaniline because
maximum formation of the product in the		W	In acidic (strong) medium aniline is present
reaction,			as anilinium ion.
$A_2(g) + B_2(g) \rightleftharpoons X_2(g)  \Delta_r H = -X kJ$ ?		(2)	In absence of substituents nitro group
(1) High temperature and low pressure		(3)	always goes to m-position.
(2) High temperature and high pressure		(0)	In electrophilic substitution reactions amino group is meta directive.
(3) Low temperature and low pressure		(4)	In spite of substituents nitro group always
Low temperature and high pressure			goes to only m-position.
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168. Which of the following molecules represents the 171. Magnesium reacts with an element (X) to form an order of hybridisation sp<sup>2</sup>, sp<sup>2</sup>, sp, sp from left to right atoms?

(1) 
$$CH_3 - CH = CH - CH_3$$

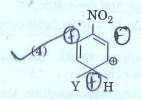
(2) 
$$CH_2 = CH - CH = CH_2$$

(2) 
$$CH_2 = CH - CH = CH_2$$
  
 $CH_2 = CH - C = CH$ 

(4) 
$$HC \equiv C - C \equiv CH$$

169. Which of the following carbocations is expected to be most stable?

$$(1) \quad \begin{array}{c} \\ \\ \\ \\ \\ \end{array}$$



Which of the following is correct with respect to - I effect of the substituents? (R = alkyl)

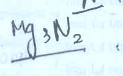
$$(1) -NR_2 > -OR > -F$$

(2) 
$$-NH_2 > -OR > -F$$

$$(4) - NH_2 < -OR < -F$$

ionic compound. If the ground state electronic configuration of (X) is 1s2 2s2 2p3, the simplest formula for this compound is

$$(4)$$
  $Mg_2X_3$ 



172. Iron exhibits bcc structure at room temperature. Above 900°C, it transforms to fcc structure. The ratio of density of iron at room temperature to that at 900°C (assuming molar mass and atomic radii of iron remains constant with temperature)

$$\frac{1}{2}$$

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

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

$$\frac{dr}{dq_{00}} = \frac{2(x)Mr}{Mq_{00}} = \frac{1}{2}$$

$$\frac{1}{2}$$

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

- 173. Which one is a wrong statement?
  - The value of m for d<sub>z2</sub> is zero.
  - The electronic configuration of N atom is

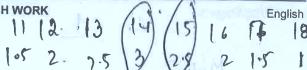
$$\begin{array}{c|c} 1\overline{s^2} & 2s^2 & 2p_x^1 \ 2p_y^1 \ 2p_y^1 \end{array}$$

- An orbital is designated by three quantum numbers while an electron in an atom is designated by four quantum numbers.
- (4)Total orbital angular momentum of electron in 's' orbital is equal to zero.
- 174. Consider the following species:

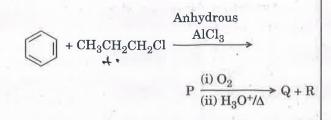
Which one of these will have the highest bond

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175. Identify the major products P, Q and R in the following sequence of reactions:



P Q R

$$\begin{array}{c} \text{OH} \\ \\ \text{CH(CH}_3)_2 \\ \\ \end{array}, \begin{array}{c} \text{CH}_3 - \text{CO} - \text{CH}_3 \\ \end{array}$$

(2)  $CH(CH_3)_2$  OH  $CH_3CH(OH)CH_3$ 

(4)  $\leftarrow$  CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub> CHO  $\rightarrow$  CH<sub>3</sub>CH<sub>2</sub> – OH

176. Which of the following compounds can form a zwitterion?

(I) Glycine

- (2) Benzoic acid
- (3) Acetanilide
- (4) Aniline

- 177. The correct difference between first- and second-order reactions is that
  - (1) the rate of a first-order reaction does depend on reactant concentrations; the rate of a second-order reaction does not depend on reactant concentrations
  - (2) a first-order reaction can be catalyzed; a second-order reaction cannot be catalyzed the half-life of a first-order reaction does not depend on [A]<sub>0</sub>; the half-life of a second-order reaction does depend on [A]<sub>0</sub> ...
    - (4) the rate of a first-order reaction does not depend on reactant concentrations; the rate of a second-order reaction does depend on reactant concentrations

178. Among CaH<sub>2</sub>, BeH<sub>2</sub>, BaH<sub>2</sub>, the order of ionic

- $(1) \quad \text{BaH}_2 < \text{BeH}_2 < \text{CaH}_2$
- $(2) \quad \text{BeH}_2 < \text{BaH}_2 < \text{CaH}_2$
- (3)  $CaH_2 < BeH_2 < BaH_2$ (4)  $BeH_2 < CaH_2 < BaH_2$
- 179. Consider the change in oxidation state of Bromine corresponding to different emf values as shown in the diagram below:

- (I) HBrO
  - (2) Br<sub>2</sub>
  - (3)  $\operatorname{BrO}_4^-$
  - (4) BrO $_3^-$
- **180.** In which case is the number of molecules of water maximum?
  - (1) 10<sup>-3</sup> mol of water N 6.022 x 10<sup>20</sup> X
  - (2) 0.00224 L of water vapours at 1 atm and  $\nearrow$
  - (3) 0.18 g of water 16<sup>-2</sup> 6.022 × 10. X

SPACE FOR ROUGH WORK

89 N

English

# ROUGHOUGH ROS EDASE

### Read carefully the following instructions:

- 1. Each candidate must show on demand his/her Admit Card to the Invigilator.
- 2. No candidate, without special permission of the Superintendent or Invigilator, would leave his/her seat.
- 3. The candidates should not leave the Examination Hall without handing over their Answer Sheet to the Invigilator on duty and sign the Attendance Sheet twice. Cases where a candidate has not signed the Attendance Sheet second time will be deemed not to have handed over the Answer Sheet and dealt with as an unfair means case.
- 4. Use of Electronic/Manual Calculator is prohibited.
- 5. The candidates are governed by all Rules and Regulations of the examination with regard to their conduct in the Examination Hall. All cases of unfair means will be dealt with as per Rules and Regulations of this examination.
- 6. No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.
- 7. The candidates will write the Correct Test Booklet Code as given in the Test Booklet/Answer Sheet in the Attendance Sheet.

