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Time : 1½ Hours**AUTOMOBILE****Subject Code**

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Total No. of Questions : 4**(Printed Pages : 7)****Maximum Marks : 40**

- INSTRUCTIONS :** (i) Answer each question on fresh page.
(ii) Write the question no. and sub-question number clearly.
(iii) All questions are compulsory.
(iv) Figures to the right indicate full marks.

1. (A) Select and write the most appropriate alternative given below each statement and rewrite complete statement. 3

(1) Which of the following is an example of Oral Communication ?

- Newspaper
- Letters
- Phone Calls
- E-mail

(2) The shortcut key used to paste the copied content is _____.

- Control + C
- Control + V
- Control + P
- Control + S

- (3) The imparting or exchanging of information by speaking, writing or using some other medium and means of sending or receiving information is _____.
- Entrepreneur skills
 - Communication skills
 - Self management skills
 - Green skills
- (4) Which of the following is the valid extension for notepad ?
- .jpg
 - .doc
 - .text
 - .txt
- (5) Ganesh customer comes to his store and starts shouting at him. He does not get angry. He is _____.
- Hard working
 - Confident
 - Patient
 - Prying new ideas
- (6) Which of the following statements is true about communication ?
- 0% of our communication is done using body movement face
 - 50% of our communication is non-verbal
 - 5% of communication is done using voice, tone, pauses etc.
 - 7% communication is done using words

(B) Answer the following questions in *two* sentences each. 4

(1) Write any *four* steps for effective time management.

(2) Explain sustainable development.

(C) Answer the following questions in *one* sentence each : 3

(1) List any *two* important parts of communication.

(2) Write the function of Enter key

(3) Write the *two* ways in which a person can earn a living.

2. (A) (I) Compare the co-ordination in first pair and complete the second pair.

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(1) Gravity system—Fuel Supply System

Rack & Pinion _____

(2) $V_s = \frac{\pi}{4} d^2 s = \text{Piston Displacement}$

$Y = \frac{V_s + V_c}{V_c} = \text{_____}$

(II) Give single term for the following definitions. 1

(1) The initial curvature provided in the leaf spring.

(2) The technology which allows driver to spot animals, pedestrian and other vehicle using thermal imaging camera during night time.

- (III) Match the following item in Column A with correct item in Column B and write the correct pair : 1

Column A

- Thermostat
- Stabilizer bar

Column B

- Transmission system
- Cooling system
- Steering system
- Suspension system

- (B) Answer the following questions in *two* sentences each : 4

(1) Write *two* points of difference between live front axle and dead front axle.

(2) Explain the following tools :

(a) Screw Gauge

(b) Multi-meter.

- (C) Answer the following questions in *one* sentence each : 3

(1) Define the term stroke.

(2) List any *two* types of brakes used in Automobile.

(3) Write the function of propeller shaft.

3. (A) Select and write the most appropriate alternative given below each statement and rewrite the complete statement _____ . 3
- (1) To maintain the pressure in the cooling system _____ is used.
- Thermostat
 - Radiator
 - Hose pipe
 - Radiator Pressure Cap
- (2) The system which helps you to reach your destination by the shortest possible route is _____ .
- Electronic Stability System
 - Collision avoidance system
 - Antilock brake system
 - Navigation system
- (3) The first company to introduce navigation system in cars ____.
- Mercedes
 - Honda
 - Toyota
 - BMW
- (4) The person who comes in contact with customer in the purchase of vehicle :
- Sales Executive
 - HR Executive
 - Service Advisor
 - Customer Relation Executive

(5) To keep the inside of engine free from dust and insects _____ is used.

- Oil filter
- Air filter
- AC filter
- Cabin filter

(6) To transmit torque at an angle where two shafts are connected _____ is used.

- Universal Joint
- Slip Joint
- Ball Joint
- Pivot Joint

(B) Answer the following questions in *two* sentences each : 4

(1) Write any *two* points on why changing of oil and oil filter is necessary.

(2) Write any *four* requirements of good steering system.

(C) Answer the following questions in *one* sentence each : 3

(1) Explain yawing.

(2) Name the special tool which is required while changing of oil filter.

(3) Write any *two* advantages of integral chassis over conventional chassis.

4. (A) (I) Match the following items in Column A with correct item in Column B and write the correct pair : 1

Column A

- Engine Speed
- Specific Gravity

Column B

- Multimeter
- Hydrometer
- Micrometer
- Tachometer

- (II) Answer whether the following statements is True or False : 1

- (1) The outer position of the tyre which rolls on the road is made of synthetic rubber is called rim.
- (2) The most important aspect of positive body language are smiling face and eye contact.

- (III) Give single term for the following definition : 1

- (1) The resistance of lubricating oil to flow
- (2) Keyless entry system is used to unlock doors, set off light and horn from distance.

- (B) Answer the following in *two* sentences each : 4

- (1) Name any *four* equipments required while changing of Air filter.
- (2) Write any *two* precautions to be taken while washing of vehicle.

- (C) Answer the following in *one* sentence each : 3

- (1) What are the ranges of service of customer support (any *two*).
- (2) Define Torque wrench.
- (3) Explain the term Brake Horse Power.