



2018 VI 23

0930

Seat No. :

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Time : 1½ Hours

**AUTOMOBILE  
(NSQF)**

**Subject Code**

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**Total No. of Questions : 3**

**(Printed Pages : 4)**

**Maximum Marks : 30**

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

1. A) Choose and write the correct alternative from the option given below : **3**

- i) A minimum of \_\_\_\_\_ orthographic views are required to show the three dimension of any object.
  - a) One
  - b) Two
  - c) Three
  - d) Four
- ii) Distance travelled by piston in moving from TDC to BDC is known as \_\_\_\_\_.
  - a) Power
  - b) Stroke
  - c) Engine torque
  - d) Clearance volume
- iii) A heptagon is a plane figure bounded by \_\_\_\_\_ sides.
  - a) Five
  - b) Six
  - c) Seven
  - d) Eight
- iv) A lead-acid storage battery consist of \_\_\_\_\_ number of basic component.
  - a) Five
  - b) Seven
  - c) Nine
  - d) Eight
- v) A fabrication process that is used for joining two materials is called \_\_\_\_\_.
  - a) Welding
  - b) Forging
  - c) Drawing
  - d) Rolling



- vi) To apply specific torque to a fasteners the tool which is used is \_\_\_\_\_  
a) Tappet wrench                      b) Torque wrench  
c) Wheel wrench                      d) Snip

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

- 1) What is manufacturing process in Automobile ?
- 2) Write any two types of stub axle.
- 3) Define pour point.

C) Answer the following in more than **two** sentences **each** : **4**

- 1) Write any two advantages of tubeless tyre.
- 2) Why vehicle washing is important (any 2 points) ?

2. A) Choose and write the correct alternative from the options given below. **3**

- i) Iron containing carbon between 2 to 4% is called \_\_\_\_\_  
a) Pig iron                                  b) Cast iron  
c) Wrought iron                          d) Aluminium

- ii) A thermostat valve is placed between engine and the \_\_\_\_\_  
a) Water pump                              b) Water jackets  
c) Radiator                                  d) Fuel pump

- iii) Tendency of vehicle to dive in its front on application of brake is called \_\_\_\_\_  
a) Dipping                                  b) Bottoming  
c) Yawing                                    d) Spring chamber

- iv) To carry out the gravity test on lead acid battery \_\_\_\_\_ tool is used.  
a) Multimeter                              b) Hydrometer  
c) Voltmeter                                d) Ammeter

- v) Chrysler was the first to make air bag standard in car in \_\_\_\_\_  
a) 1988                                      b) 1990  
c) 1992                                      d) 1994

- vi) The first company to install ABS on production cars in 1978 was \_\_\_\_\_  
a) Mercedes benz                        b) BMW  
c) Audi                                        d) Volkswagon



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

- 1) Why air filter is important in automobile engine ?
- 2) What is blind spot detection technology in Automobile ?
- 3) List any two basic parameter on which size selection of propeller shaft depends in automobile.

C) Answer the following questions in **two** or more sentences : **4**

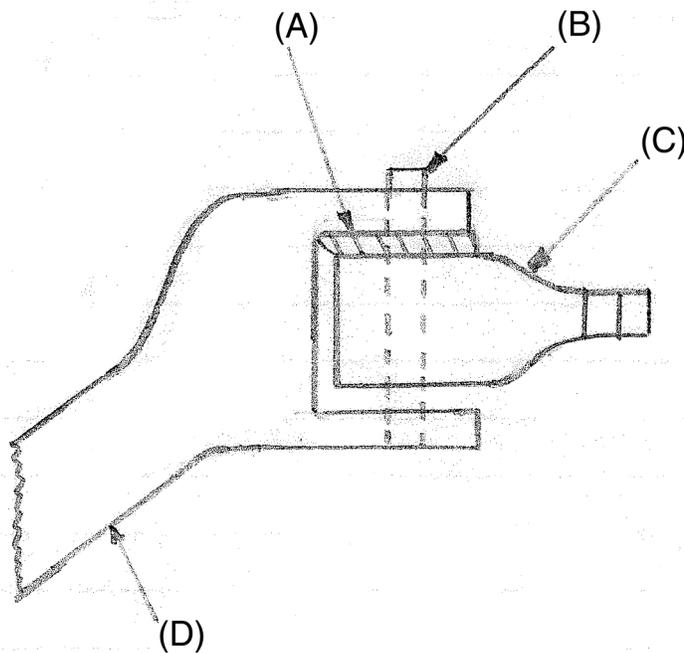
- 1) Construct a square with a given diagonal AC of 50 mm and write the solution.
- 2) Write any two important aspects of a customer service.

3. A) Answer the following questions in **one** sentence **each** : **3**

- 1) List any two precautions to be taken during washing of vehicle.
- 2) Explain combination spanner.
- 3) List any two measuring tools used in Automobile.

B) Answer the following questions in **two** or **more** sentences : **4**

- 1) Label the given sketch of Elliot type stub axle in alphabetical order.



Label :

A : \_\_\_\_\_

B : \_\_\_\_\_

C : \_\_\_\_\_

D : \_\_\_\_\_



2) List any two materials and tools required to change the air filter of two wheeler.

C) Answer the following questions :

1) Write any two requirements of steering system. **2**

2) Write a formula used to calculate piston displacement. **1**

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