



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**

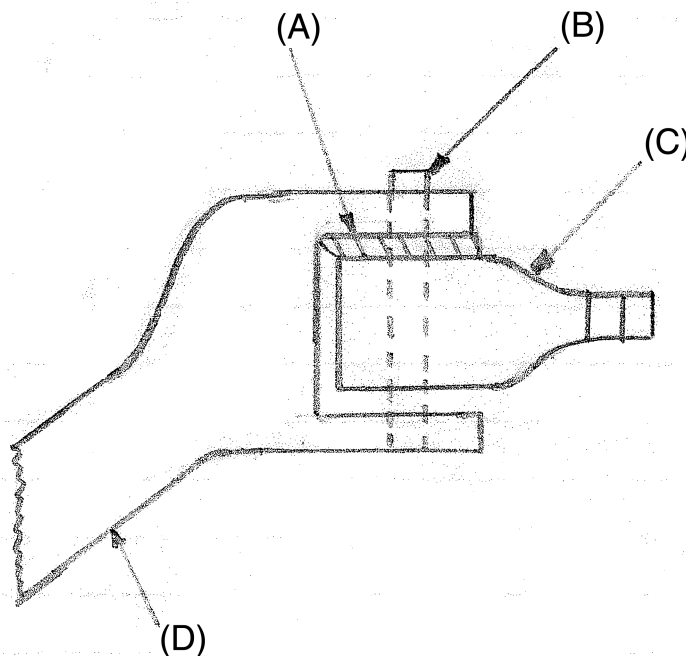
- 1) Construct a square with a given diagonal AC of 50 mm and write the solution.
- 2) Write any two important aspects of a customer service.

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**
