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220314

**1st Semester/ Automobile**  
**Subject : Basics of Automobile Engineering**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which of following is not an automobile

- a) Car
- b) Truck
- c) Train
- d) Scooter

Q.2 Crane is classified as which type of automobiles based on Load?

- a) Special purpose vehicle
- b) Goods Vehicle
- c) Passenger Vehicle
- d) All of these

Q.3 Which of the following is a part of the engine power system?

- a) Clutch
- b) Flywheel
- c) Gear Box
- b) Axles

- Q.4 The clutch is located between flywheel and
- a) Gear Box                      b) Propeller shaft  
c) Differential                    d) Axle
- Q.5 Which of the following vehicles has frameless chassis?
- a) Jeep                              b) Bus  
c) Car                                d) Truck
- Q.6 The unit of engine capacity is
- a) Litre                              b) Centimeter cube  
c) Both A & B                    d) Niether A Nor B

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Write full form of BDC
- Q.8 Write function of connecting rod.
- Q.9 Write full form of S1.
- Q.10 In petrol engine only air is entered during suction stroke. (True/False)
- Q.11 In India right hand drive vehicles are used. (True/False)
- Q.12 Draw the symbol of no parking.

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### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Classify automobile on the basis of number of strokes and give their application.
- Q.14 What is hatchback car?
- Q.15 Write types of chassis frames.
- Q.16 Describe swept volume and clearance volume of engine.
- Q.17 Write four difference between external combustion engine and internal combustion engine.
- Q.18 Draw working diagram of 4 stroke diesel engine.
- Q.19 Write five traffic rules.
- Q.20 Write the necessity of air bag and ABS.
- Q.21 Name four manufactures of two wheelers in India.
- Q.22 Write uses of various automotive vehicles.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain principle, working and construction of 4 stroke petrol engine with neat diagram.
- Q.24 Classify vehicles according to Engine, load, wheel and utility.
- Q.25 Classify road signs and draw any five road signs.

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