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Total No. of Pages : 02

Total No. of Questions : 09

B.Voc. (AS) (Sem.-3)
AUTOMOBILE DRAWING AND DESIGN
Subject Code : 6.GV.02
M.Code : 78770
Date of Examination : 14-12-22

Time : 3 Hrs.

Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of TEN questions carrying ONE mark each.
2. **SECTION-B** contains FIVE questions carrying 2½ (Two and Half) marks each and students has to attempt any FOUR questions.
3. **SECTION-C** contains THREE questions carrying FIVE marks each and students has to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) What are the benefits understanding of automobile drawing and design?
- b) What will happen if proper lubrication of the automobile engine is not done?
- c) What type of steering system does Maruti has?
- d) What is the significance of universal joint in automobiles?
- e) What is the role of flywheel in automobile?
- f) Give the full form of EFI system.
- g) Define the poppet valve function of a 4-stroke engine.
- h) Draw the free hand line/block diagram of the Oxygen sensor.
- i) Why cooling system are required in multi-cylinder engine?
- j) What is CRDI system?

SECTION-B

2. Neatly draft the sectional views of poppet valve assembly of a 4-stroke engine.
3. Draw a free hand line diagram of fuel system of diesel engine.
4. Neatly sketch out the layouts of F.I pump reconditioning shop.
5. Neatly draft the self-explanatory sectional views of Universal joint.
6. Draw a free hand line diagram of Air Hydraulic braking system of TATA.

SECTION-C

7. Design the following components of an automobile engine.
 - a) Connecting rod assembly
 - b) Flywheel
8. Draw neatly a free hand line/block diagram of CRDI system.
9. Neatly draw the sectional views of the following assemblies.
 - a) Piston assembly
 - b) Spark Plug.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.