

S.B. Roll. No.....

AUTOMOBILE ENGINEERING
6th Exam/Mech./5330/Jun'2022

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Give answer in one line.

15x1=15

- a. What is the name of portion of automobile without body?
- b. What is compression ratio?
- c. Which fuel is used in spark ignition engines?
- d. Expand CRDI.
- e. Normally, the clutch is mounted between which two parts?
- f. Name two types of rear axles.
- g. Name the central gear of an epicyclic gear train.
- h. What is bleeding of hydraulic brake system?
- i. What are shock absorbers?
- j. Name the material used for the battery plates.
- k. The electrolyte used in the lead acid battery is the solution of which material?
- l. Name the instrument used to check the specific gravity of electrolyte in a battery?
- m. Which type of current is produced by an alternator?
- n. Name two substances in the exhaust gas which act as pollutants.
- o. What is the function of catalytic converter?

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. What is MPFI?
- ii. What is the purpose of differential in an automobile?
- iii. What is overdrive?
- iv. Write a note on tubeless tyre.
- v. Define principle of steering system.
- vi. What are the main functions of master cylinder?
- vii. Discuss the maintenance of batteries.
- viii. Write the functions of suspension system.
- ix. Name the four main sources of pollutants in automobile.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. Explain with neat sketch the working of cone clutch.
- b. Describe the working of constant mesh gear box.
- c. What do you understand by Anti-lock braking system? Explain its working.
- d. Explain the construction and working of alternator.
- e. Sketch the diagram of air suspension system and explain its working.