

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

AUTOMOBILE ENGINEERING
6th Exam/Mech./5355/Dec'22
(For 2018 Batch Onwards)

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Do as directed.

15x1=15

- a. A two stroke engine has 2 valves.(T/F)
- b. Diesel engine works on principle of auto ignition. (T/F)
- c. Cross tyre ply layout gives ride comfort at low speed. (T/F)
- d. 2 wheelers have an air cooled engine. (T/F)
- e. Lubricant is mixed with petrol in 2 stroke engines. (T/F)
- f. Universal joints can tolerate slight misalignment?(T/F)
- g. What is the function of catalytic converter?
- h. EGR stands for _____
- i. Leaf springs are used in _____
- j. Expand CRDI
- k. There are _____engine driven wheels in 6X2 vehicles?
- l. The crown gear and pinion in differential uses which type of gears?
- m. In which engine lubricant is mixed with fuel?
- n. What is function of turbocharger?
- o. What are latest emission control norms in India?

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. Explain working of a centrifugal clutch with help of a diagram
- ii. Draw and explain MPFI system.
- iii. Explain the four strokes of 4 stroke petrol engine.
- iv. Explain various emission norm standards.
- v. Differentiate between coil and leaf springs.
- vi. Explain the purpose and functioning of ABS system
- vii. What is toe in, toe out, camber and castor?
- viii. Draw theoretical and actual valve timing diagrams for 4 stroke petrol engines.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. Explain the layout of transmission system of an automobile.
- b. Describe the working of constant mesh gearbox.
- c. Describe the construction and working of torque converter.
- d. Explain all the components of fuel supply system of a petrol engine. Also draw a clean sketch of ceramic type fuel filter.
- e. Describe the construction and working of telescopic shock absorber.