

Roll No.

Total Pages : 2

013612

August/September 2022
B.Tech. (ME) VI SEMESTER
Automobile Engg. (PEC-ME-328)

Time : 3 Hours]

[Max. Marks : 75

Instructions :

- 1. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
- 2. Answer any four questions from Part-B in detail.*
- 3. Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

- (a) Define Automobile System. (1.5)

(b) Define 4 × 4 system in Automobile. (1.5)

(c) Define Universal Joint in Automobile. (1.5)

(d) Discuss Propeller Shaft in Automobile. (1.5)

(e) Discuss function of Fuel Injection system. (1.5)

(f) Discuss usage of Semi centrifugal type clutch. (1.5)

(g) Explain Drum Brakes. (1.5)

(h) What is the need of Suspension System? (1.5)

(i) How many types of Axles in Automobile? (1.5)

(j) Discuss Ignition system in Automobile. (1.5)

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 [P.T.O.]

PART-B

2. (a) Differentiate Constant Mesh Gear Box with Synchromesh type Gear Box. (10)
(b) What is function of Power Drive system. (5)

 3. (a) What is Transfer Box discuss in details? (5)
(b) Discuss Differential Box with its diagram details. (10)

 4. Explain Single Plate Clutch system with construction and working in detail. (15)

 5. (a) What is Mechanical Type Brake system discuss with diagram? (5)
(b) Differentiate Disc Brake with Electric Brake System. (10)

 6. (a) What are different methods of Emission control in Automobile? (10)
(b) Discuss Hybrid Engines with details. (5)

 7. Explain Steering System with diagram and discuss Rack and Pinion type steering gear box in detail. (15)
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