

- Q.18 Write a short note on brake drum. (CO4)
- Q.19 Explain, in brief, master cylinder with the help of neat sketch. (CO4)
- Q.20 Write the function of suspension system. (CO3)
- Q.21 Explain the principle of differential. (CO2)
- Q.22 Explain, in brief, different method of battery charging. (CO5)

SECTION-D

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

- Q.23 Explain the construction and working of single plate clutch with the help of neat sketch. (CO2)
- Q.24 Explain Ackerman steering mechanism with the help of neat sketch. (CO3)
- Q.25 Explain with neat sketch, the principle, construction and working of hydraulic brakes. (CO4)

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6th Sem / Mechanical Engg. (Tool & Die Design)

Subject : Automobile Engineering

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Which of these were or are used in automobiles to provide suspension ? (CO3)
- a) Coil springs
 - b) Torsion bars
 - c) Leaf springs
 - d) All of the mentioned
- Q.2 Which of the following is found in an automobile's electrical system ? (CO1)
- a) Lighting system
 - b) Battery
 - c) Alternators
 - d) All of the mentioned

- Q.3** Which of the following parts does not include an automobile chassis ? (CO1)
- a) Differential b) Brakes
c) Steering system d) Shock absorber
- Q.4** Which of the following is a classification of IC Engine? (CO6)
- a) Otto cycle engine b) Four-stroke engine
c) S.I. engine d) None of the above
- Q.5** Which of the following material is used to make connecting rod ? (CO2)
- a) Cast iron b) Mild Steel
c) Forged steel d) Tool steel
- Q.6** Which of the following provides passages for the flow of cooling water ? (CO2)
- a) Crankcase b) Cylinder block
c) Piston d) Cylinder head

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SECTION-B

- Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)
- Q.7 Write the function of camshaft. (CO2)
Q.8 Define chassis of an automobile. (CO1)
Q.9 What is the value of caster angle ? (CO3)
Q.10 What is the function of parking brakes. (CO4)
Q.11 Name two type of wheel balance. (CO3)
Q.12 Define battery capacity . (CO5)

SECTION-C

- Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)
- Q.13 Write a short note on hybrid electric vehicle . (CO1)
Q.14 Explain, in brief, working of camshaft. (CO2)
Q.15 Write the advantages of multi plate clutch. (CO2)
Q.16 Write the function of transmission system. (CO2)
Q.17 Name different types of rear axle . (CO3)

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