

- Q.4 Describe construction & working of centrifugal clutch. HSBTEonline.com
- Q.5 Describe construction & working of torque converter.
- Q.6 Explain torque tube type final drive.
- Q.7 Draw the layout of steering system in automobile

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**4th Sem. / Auto. Engg.**

**Subject : Chassis Body & Transmission-I**

Time : 3 Hrs.

M.M. : 100

**SECTION-A**

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Write the name of major components of automobile.
- b) Define body streamlining.
- c) Classify automobile according to drive.
- d) What is the advantage of centrifugal clutch? HSBTEonline.com
- e) Where are the multiplate clutches used?
- f) What is the necessity of gear box?
- g) What is the function of transfer case?
- h) Give the causes of hard gear shifting.
- i) What is the function of universal joint.

- j) Name various types of final drive.
- k) Give the causes of knock in driveline.
- l) Write advantage of synchromesh over constant mesh gear box.
- m) Name various types of stub axle.
- n) Write the lining material used in clutch.
- o) Name various types of steering gear system.
- p) What is castor?
- q) What is under steering?
- r) Write four causes of Hard steering.

### SECTION-B

**Note:** Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) What are the advantages & disadvantages of rear engine position.
  - ii) Name various types of car body.
  - iii) What are the various functions of clutch?

- iv) Describe construction of fluid flywheel.
- v) Write advantages of centrifugal clutch.
- vi) Classify gear box in automobile.
- vii) Sketch over running clutch.
- viii) Write four causes & their remedies in gear noise.
- ix) Sketch three quarter floating axle.
- x) Describe the function of differential.
- xi) Describe effect of braking on axle shape. HSBTEonline.com
- xii) Explain reverse Elliot type stub axle.
- xiii) Explain Davis steering mechanism.
- xiv) Explain effect of camber.
- xv) Explain cornering power in steering.

### SECTION-C

**Note:** Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Give the classification of automobile.