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Total No. of Pages: 01
Total No. of Questions: 09

B. Tech (AE) (Sem.-5th)
AUTOMOTIVE TRANSMISSIONS
Subject Code: BTAE-502
Paper ID: [A2062]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATE:

1. Section –A, is Compulsory.
2. Attempt any four questions from Section-B.
3. Attempt any two questions from Section-C.

Section –A

- Q.1.(a)** Define tractive effort.
- (b) How transmission system is classified?
- (c) Why are clutch friction plate perforated.
- (d) What causes the clutch to slip?
- (e) Where a transfer box is used in transmission system
- (f) What is a compound gear train?
- (g) What is a torque converter?
- (h) What do you understand by hydrodynamic drive?
- (i) What is the function of stator in torque converter?
- (j) What is meant by dual clutch transmission?

10x2=20

Section –B

- Q.2.** Discuss the requirements of transmission system.
- Q.3.** Discuss the desired features of an automobile clutch.
- Q.4.** Differentiate between constant mesh and sliding mesh gear box.
- Q.5.** Discuss the principle of hydrostatic drive system
- Q.6.** Explain the working of an overdrive.

4x5=20

Section –C

- Q.7.** Describe a fully centrifugal clutch with the help of a sketch.
- Q.8.** Discuss the principle of operation and construction of a fluid coupling.
- Q.9.** Write a note on automatic transmission.

2x10=20

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