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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (AE) (2012 to 2017) (Sem.5)

AUTOMOTIVE TRANSMISSIONS

Subject Code : BTAE-502

M.Code : 70485

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A**Write briefly :**

1. Write short note on need of transmission system.
2. Depending on vehicle type give the location of transmission system.
3. What are different modes of operation of clutch?
4. Illustrate dual clutch transmission.
5. Give examples for transaxles.
6. How drag torque is reduced?
7. Define fluid coupling.
8. What are limitations of hydrostatic drive system?
9. What is principle of modified ward Leonard control system?
10. Write about ECT-i.

SECTION-B

11. Classify transmission system. Brief each.
12. Describe the dry and wet types of clutch.
13. What are performance characteristics of converter coupling?
14. What are advantages and limitations of electric drive?
15. Explain the power and economy modes in gearbox.

SECTION-C

16. With help of block diagram describe Chevrolet “Turbo-glide” transmission.
17. Explain the construction detail of fluid coupling with neat diagram.
18. a) Compare the hydrostatic drive with hydrodynamic drive.
b) Illustrate the mechanical link gear shifting mechanism.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.