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Roll No.				Total No. of Pages: 02

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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:

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

SECTION-A

1. Write briefly:

- (a) Brief about resistance to motion of a vehicle.
- (b) What do you understand by Multi axis drivers?
- (c) Give examples for wet type of clutch usage.
- (d) Write short note on overdrives.
- (e) Where a transfer box is used in transmission system?
- (f) What is effect of over running clutches?
- (g) Define principle of fluid coupling.
- (h) What is the roll of torque converter in hydrodynamic drive?
- (i) Illustrate power-glide transmission system.
- (j) What is principle of early ward Leonard control system?



SECTION-B

- 2. Discuss different transmissions units for different vehicles of Indian Make.
- 3. What are the performance characteristics of Fluid coupling?
- 4. With the help of neat sketch briefly explain Automatic clutch.
- 5. Write about hydraulic actuation system.
- 6. Explain Working of synchronizing units.

SECTION-C

- 7. Illustrate all modes of operating clutch in detail.
- 8. Describe the transmission system for four-wheel drive system.
- 9. Write in detail about:
 - www.FirstRanker (a) Automatic transmission with Intelligent Electronic control system.
 - (b) Electric drive.

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.

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