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Roll No.	

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Automobile Engineering) (Sem.–7) OFF ROAD VEHICLES Subject Code : BTAE/DE-711 Paper ID : [A2936]

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTIONS 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

1. Answer briefly :

- a) What are the applications of land clearing machines?
- b) Write short note on Ditchers.
- c) List the types of tractors.
- d) What are resent trends in tractor design in India?
- e) Name atleast four types of earth moving machines.
- f) What are applications of road pavers?
- g) Briefly discuss about elevating graders.
- h) What are special features of gun carriers?
- i) Brief about wheel drive vehicles.
- j) Illustrate about Trailers.



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SECTION-B

- 2. List various types of off-road vehicles. Why are they required?
- 3. On what bases capacity of multi axle vehicles are decided? What are their applications?
- 4. Explain in detail about the working features of cement mixing trucks.
- 5. What are troubleshooting of tractors?
- 6. Discuss about the medium and heavy duty tractors.

SECTION-C

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- 7. Illustrate in detail about the constructional details of any one wheel drive vehicle.
- 8. Write note on :
 - a) Dump trucks,
 - b) Ditchers.
- 9. Describe in detail about the special features and constructional detail of tankers.

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