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Total No. of Pages : 02

Total No. of Questions : 18

**B.Tech. (Automobile Engineering) (2012 Onwards)****(Sem.-7)****OFF ROAD VEHICLES****Subject Code : BTAE/DE-711****M.Code : 71821****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****Answer briefly :**

1. What is the roll of ditchers in off road vehicles?
2. For mining purpose which off road vehicles are used.
3. To attach trolley with tractor what steps are followed?
4. Write note on light tractors?
5. Brief about Trailers.
6. What are special features of gun carries?
7. What are the applications of crawler cranes?
8. Briefly discuss about striper shovels.
9. Write about the special features of off road vehicles.
10. List different all-wheel drive vehicles in military recovery vehicles.





**SECTION-B**

11. What are merits and demerits of tractors?
12. Write in detail about power shift transmission in caterpillar tractor.
13. Explain in detail about the working features of rotary type loaders.
14. Describe working features of ditches.
15. Discuss about the troubleshooting of tractors.

**SECTION-C**

16. Describe in detail about the constructional details of crawler crane.
17. Write about specifications, functions and applications of light duty tractors.
18. Write about :
  - a) Capacity of shovels
  - b) Ditchers.

**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.**

