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Roll No.			Total No. of Pages : 02

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B.Tech.(AE) (E-I 2011 Onwards) (Sem.-6) TRACTOR & EARTH MOVING MACHINERY

Subject Code: BTAE/DE-613 Paper ID: [A2388]

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 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. Name different types of wheel used in earth moving machinery.
- b. Write about the working principle of braking.
- c. Define compound transmission.
- d. What is use of ripper in earth moving machinery?
- e. How the transmission system used in tractors is different then used for earth movers?
- f. Write note on safety devices used in earth movers.
- g. What do you understand by articulated vehicles?
- h. Write at least four applications of tractors.
- i. What are basic characteristics of truck cranes?
- j. What is difference between double reduction final drive and planetary final drives?



SECTION-B

- 2. Classify the special purpose vehicles and explain them with appropriate application.
- 3. Explain different final drives.
- 4. Discuss in detail about tracked vehicles.
- 5. Write briefly about Sovel and Bull Dozer.
- 6. What are the design features of mobile cranes? Explain its control system.

SECTION-C

- 7. Discuss in detail about working, principle and design consideration of power system.
- Explain all the aspects of different systems used for Tractors and for its agricultural 8. implementation. MMM/FilestRanker.com
- Write briefly about: 9.
 - a. Tractor stability and weight.
 - b. Compactors.

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