6624 BOARD DIPLOMA EXAMINATION MARCH/APRIL - 2019 * DIPLOMA IN CIVIL ENGINEERING ADVANCED CIVIL ENGINEERING TECHNOLOGIES FIFTH SEMESTER EXAMINATION

Time: 3 Hours

Total Marks: 80

PART - A $(3m \times 10 = 30m)$

Note 1:Answer all questions and each question carries 3 marks 2:Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. State the working principle of IoT

- 2. List any three applications of IoT in Smart Manufacturing
- 3. State the components of GIS
- 4. List any two systems of Pre-Tensioning Systems
- 5. What is Reinforced anchored earth wall
- 6. List any three advantages of earth retaining structures
- 7. List any three types of prefabricated systems
- 8. What is prefabrication technology in construction
- 9. Define a) Focus b) Fault c) Liquefaction
- 10. Define Solar energy

PART - B $(10m \ x \ 5 = 50m)$

Note 1:Answer any five questions and each carries 10 marks 2:The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

- 11. (a) State the applications of IoT in Food and Water Tracking(b) State the applications of IoT in Security
- 12. List Explain the segments of GPS
- 13. Explain the Freyssinet and Gifford-Udal system of post tensioning with necessary legible sketch
- 14. Explain the fundamental principles of prestressed concrete
- 15. Explain the advantages of using geomats in reinforced soil retaining walls
- 16. Explain the types of prefabricated systems WWW.manaresults.co.in

- 17. Explain the provisions of IS : 4326 of earthquake resistant structures
- 18. Explain about solar energy utilities in

a) Water heaters b) Air heaters c) Cookers

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