Code: C16 C-505

## 6624

## **BOARD DIPLOMA EXAMINATION**

**JUNE - 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. List any three fields of engineering in the application of IoR List the types of data used in GIS

  4. List any three advantages of Prestressed Concrete Little Prestressed Concrete Con

- 6. List any three advantages of earth retaining structures
- 7. List any three reasons to choose prepast construction method over cast in-situ method.
- 8. List any three types of prefabricated systems
- 9. Define a) Richter scale b) seismograph c) Tsunami
- 10. Define Solar building

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. State any ten applications of IoT in smart cities
- 12. Explain the principle of EDM. State its uses.
- 13. Explain the fundamental principles of prestressed concrete
- 14. Explain the LeeMcall and Freyssinet system of post tensioning with necessary legible sketch
- 15. Explain a) Geogrids b) Geomats
- 16. Explain the types of prefabricated systems

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17. Explain the seismic resistant constructionand detailing of R.C buildings as per IS:13920 code provisions

18. Explain about solar energy utilities in a) Lighting b) Water pump sets

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