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Question Paper Code : 91520

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Second Semester

Electrical and Electronics Engineering

GE 2152/080510002/GE 1151 A/ME 26/10111 CE 206 — BASIC CIVIL AND MECHANICAL ENGINEERING

(Common to Electronics and Communication Engineering, Biomedical Engineering, Electronics and Instrumentation Engineering, Computer Science and Engineering, Instrumentation and Control Engineering and Information Technology)

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is meant by levelling?
2. List some varieties of cement.
3. Define elasticity and plasticity.
4. List the different types of bonds in brick masonry.
5. Mention any four types of power plants.
6. How are turbines classified?
7. Name the cooling systems used for I.C. engine.
8. Give the field applications of diesel power plants.
9. What are the factors which affect the comfort air-conditioning?
10. Define COP.

PART B — (5 × 16 = 80 marks)

11. (a) Explain the classification, qualities and constituents of a brick.
Or
(b) Explain the principle of levelling.
12. (a) What is a dam? Explain the types of dams and its uses.
Or
(b) What do you understand by a foundations? Draw sketches to show various types of shallow foundations.
13. (a) Explain with a neat sketch the nuclear power plant.
Or
(b) Explain the working principle of a single acting reciprocating pump with help of a line sketch, naming all main parts.
14. (a) Differentiate between two stroke and four stroke engine.
Or
(b) Explain with a neat sketch of Diesel engine power plant.
15. (a) Explain with a neat sketch of domestic refrigerator.
Or
(b) Describe with help of a diagram the Vapour compression refrigeration System.
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