Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 31468

B.E./ B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Second Semester

Electrical and Electronics Engineering

GE 2152/ 08051002/ 10111 CE 206/ GE 1151 A/ ME 26 — 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 surveying?

2. What are different types of steel?

3. Define plastering.

4. List the different types of bonds in brick masonry.

5. Mention any four types of power plants.

6. How pumps are classified?

7. What are the applications of boiler?

8. Give the field applications of diesel power plants.

9. What are factors which affect the comfort air-conditioning?

10. Define Tonne of Refrigeration and COP.

PART B — (5 × 16 = 80 marks)

11. (a) Describe the different types of Concrete. (16)

Or

(b) Explain the principle of levelling. How will you measure the distance and angles? (16)

12. (a) What are different types of cement? Explain their properties and uses.(16)

Or

(b) Classify bricks and state its characteristics and uses of each one of them. (16)

13. (a) Explain with a neat sketch of Thermal (steam) power plant. (16)

Or

(b) Explain the working principle of a single acting reciprocating pump with help of a line sketch, naming all main parts. (16)

14. (a) (i) Differentiate between two stroke and four stroke engine. (4)

(ii) Show the neat sketch of working principle of Diesel Engine. (12)

Or

(b) Discuss the working of two stroke cycle petrol engine with help of neat sketch. (16)

15. (a) Explain with neat sketch of Domestic Refrigerator. (16)

Or

(b) Describe with help of diagram, Vapour compression refrigeration system. (16)

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