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Question Paper Code : 71646

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

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. Name the few types of cements used in construction.
2. What is meant by surveying?
3. State the purpose of dams.
4. Define elasticity.
5. How pumps are classified?
6. List the important parts of gas turbine power plant.
7. How IC engines are classified?
8. Define Boiler in power plant.
9. What are the factors which affect the comfort air-conditioning?
10. Define tonne of refrigeration.



PART B — (5 × 16 = 80 marks)

11. (a) Explain the principle of levelling.

Or

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

12. (a) What do you understand by the term foundation? Draw sketches to show various types of shallow foundations.

Or

(b) (i) What is Dam and what are the points to be considered for the selection of site for the dam? (10)

(ii) What are the points to be observed in construction of stone masonry? (6)

13. (a) Explain with a neat sketch of Steam power plant.

Or

(b) Explain with a neat sketch of Nuclear power plant.

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

Or

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

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

Or

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

