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 **REG NO:**

**SIR ISSAC NEWTON COLLEGE OF ENGINEERING AND TECHNOLOGY**
Mechanical Engineering
**GE6251 — BASIC CIVIL AND MECHANICAL ENGINEERING**
Time: Three hours Maximum: 100 Marks

**SINCET/I EEE/ MODEL/GE6251 BCM/SET-2/MAY-JUNE 2016/ R13/AU-ND 2014 / 97082**

Answer ALL questions

**PART A — (10 × 2 = 20 Marks)**

01. What are different types of steel?

02. What is meant by leveling?

03. Define elasticity?

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

05. Mention any three parts of steam power plants.

06. How turbines are classified?

07. Define boiler.

08. Name the cooling systems used for I.C engine.

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

10. Define COP.

**PART B — (5 × 16 = 80 Marks)**

11. (a)Describe the different types of concrete.

 **(Or)**

 (b)Explain the classification, qualities and constituents of a brick.

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

 **(Or)**

 (b)What are the factors influencing the selection of dams? Explain with neat diagram any one type of dam.

13. (a)Explain with a neat sketch about a Thermal (steam) 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 engines.

 **(Or)**

 (b)Explain with neat sketch of Diesel power plant.

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

 **(Or)**

 (b)Describe with help suitable diagram, vapour compression refrigeration system.

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