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Question Paper Code : 53016

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Second Semester

Civil Engineering

GE 202 – BASIC ENGINEERING

(Common to All Branches)

(Regulation 2007)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Name the different boilers.
2. Compare the two stroke engine with four stroke engine on any four aspects.
3. Distinguish between soldering and welding.
4. Indicate the composition of Green Sand used for moulding purpose.
5. Write the types of foundation.
6. What are the uses of plastic in construction?
7. Mention the advantages of railway system.
8. Specify the meaning of per capita consumption.
9. Write the Ohm's law and Kirchoff's law.
10. What are the uses of induction motor?

PART B — (5 × 16 = 80 marks)

11. (a) Draw a neat sketch of single jet carburetor and describe its functions.

Or

- (b) With the help of line diagram explain the working of Willcox boiler.

12. (a) Discuss on Gas Welding process and also list the merits over the arc welding process.

Or

- (b) What are the operations done in lathe? Illustrate with line diagram.

13. (a) Bring out the construction materials and expected properties.

Or

- (b) Elaborate on requirements of good foundation.

14. (a) Select a bridge for crossing a 10 feet river (on road) and indicate components with line sketch.

Or

- (b) Narrate on rail way track and its elements.

15. (a) Draw a three phase balanced circuit and describe.

Or

- (b) Explain the principle of working of DC motor.
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