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B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.

Second Semester

Electrical and Electronics Engineering

BE 3255 — BASIC CIVIL AND MECHANICAL ENGINEERING

(Common to : Electronics and Instrumentation Engineering/Environmental Engineering/Instrumentation and Control Engineering)

(Regulations 2021)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. What is meant by town planning?
- 2. What are the non-conventional sources of energy?
- 3. What are the advantages of reinforced Concrete?
- 4. What are the various mechanical properties of building material?
- 5. What is suspension bridge?
- 6. What is plastering?
- 7. Compare 4-stroke and a 2-stroke engine.
- 8. How are boilers classified?
- 9. Differentiate vapour-compression and vapour-absorption system.
- 10. Define wet-bulb temperature.

PART B —
$$(5 \times 13 = 65 \text{ marks})$$

 (a) Discuss the advantages and disadvantages of road and railway transport system.

Or

(b) Discuss the various interdisciplinary concepts of engineering with few examples to enhance values to their systems.

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| 7 : | |
|---------|---|
| 12. (a) | Discuss the types of thermo plastics and thermo-setting plastics. |
| | Or |
| (b) | What are the objectives of surveying? How surveying is classified? |
| 19 (-) | What is green building? What are the salient features of a green |
| 13. (a) | building? Mention few benefits green building. |
| | Or |
| (b) | Discuss types of building stones and their Uses. |
| 14. (a) | Discuss with a neat sketch the different parts of steam turbine. |
| | (Common to Electronics and Instant Or Harmon Engeneering Environment |
| (b) | Explain with a neat sketch working of steam power plant. |
| 15. (a) | Discuss the working principle of vapour compression refrigeration system. |
| | m Or |
| (b) | Explain the working of split air-conditioner. |
| | PART C — (1 × 15 = 15 marks) |
| 16. (a) | |
| | Or |
| (b) | Discuss the centrifugal pump components and their functions. |
| | |
| | 6. What is plastering? |
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| | we surrection to encourage the distribution of a solution |
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