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Question Paper Code: 42705

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Second Semester

Computer Science and Engineering

14UME205 – BASIC CIVIL AND MECHANICAL ENGINEERING

(Common to EEE, ECE, EIE, ICE, MECH and IT)

(Regulation 2014)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. Define leveling.
2. List the constituents of portland cement.
3. Define strain.
4. Define elasticity.
5. List the merits of hydel power plant.
6. What is the use of control rods?
7. What is the function of carburetor?
8. Name any four boiler mountings.
9. List the major components of a vapour compression refrigeration system.
10. Name any four refrigerants.
11. What is meant by priming in centrifugal pumps?
12. Mention the functions of flywheel in engines.
13. Brief about the concept of scavenging in internal combustion engines.

14. List the types of air conditioning systems.

15. Define relative humidity.

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. Briefly discuss the principles of surveying. (10)
17. List the types of foundations and discuss any four. (10)
18. Draw the layout of gas turbine power plant and explain its working. List its merits and demerits. (10)
19. With suitable sketches, explain the working of four stroke diesel engine. (10)
20. Explain the construction and working of the domestic refrigerator with suitable sketch. (10)