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**Question Paper Code: 21006**

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

Second Semester

Civil Engineering

01UME205 - BASIC CIVIL AND MECHANICAL ENGINEERING

(Common to all branches)

(Regulation 2013)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

**(Answer any ten of the following questions)**

1. List out the two principles of surveying.
2. What are the constituents of cement?
3. Define bench mark in levelling.
4. What is meant by landscaping?
5. What is nuclear fission?
6. What is the use of surge tank in hydroelectric power plant?
7. Mention the functions of flywheel in engines.
8. What is a carburetor?
9. How are refrigeration systems classified?
10. What is defrosting?
11. What is leveling?
12. What is mean by 1:2:4 concrete mix?
13. What is plastering?

14. List the types of dam.

15. What is the function of Surge tank in hydroelectric power plant?

PART – B (3 x 10= 30 Marks)

**(Answer any three of the following questions)**

16. Explain briefly about the classification of surveying. (10)
17. Discuss the various types of foundations. (10)
18. Explain the working principle of diesel power plant with the help of a schematic diagram. (10)
19. Explain the working principle of four stroke cycle petrol engine with sketches. (10)
20. Draw the sketch of vapour absorption refrigeration system. List out the components and their functions. (10)