

## Question Bank (I scheme)

Name of Course: Chemistry of Engineering Materials (CEM)

Subject Code: 22233

Unit Test I

Semester: II

Programme: CH

### Unit 1

#### Two marks questions –

1. Define material. State different types of material structures.
2. What are the characteristics of thermal insulating materials?
3. Explain Bragg's law.
4. State law of axial ratio.
5. State Seebeck effect.

#### Four marks questions –

6. Explain insulating materials.
7. Explain organic and inorganic insulations.
8. Explain biomaterials. Give properties and uses.
9. Explain crystal structure of NaCl.
10. Explain thermal insulating materials.

### Unit 2

#### Two marks questions –

11. Define – i) chemical composition, ii) Chemical reactivity,
12. Give chemical reactivity of mild steel.
13. Give Peltier effect.
14. Give composition of stainless steel.

#### Four marks questions –

15. Explain physical properties of engineering materials.
16. Explain mechanical properties of engineering materials.
17. Explain electrical properties of engineering materials

### Unit 3

#### Two marks questions –

18. What are ceramics? Give its classification.
19. Give properties and uses of copper.
20. What are the raw materials of ceramics?

#### Four marks questions –

21. Explain copolymerization.
22. Explain step growth polymerisation.
23. Give one example of thermosetting polymer with its example.
24. Differentiate between thermosetting and thermosoftening plastics.
25. Explain addition polymerization with example.