

UNIT-5

ADVANCED MATERIALS

SHORT ANSWER QUESTIONS

1. What are smart material. Give example
2. Define cement
3. Write the composition of portland cement
4. Define phase rule
5. What is Degree of freedom
6. What are lubricants.
7. Write any two characteristics of lubricants.
8. Define viscosity.
9. Define Flash and fire points.
10. Define cloud and pour points.

LONG ANSWER QUESTIONS

11. What are smart materials. Explain shape memory materials with example.
12. Define Phase rule, Component and Degree of freedom, Triple Point
13. What is Phase Rule. Explain one component system
14. Define cement? What is Portland cement. Write its composition ?
15. Explain the Setting and hardening of cement.
16. Define Biosensor and Explain Amperometric Glucose monitor sensor.
17. Define lubricants and characteristics of a good lubricant
18. Explain the properties of an lubricants, cloud, pour, flash and fire points.
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