

## 25CE301 BUILDING MATERIALS AND CONCRETE TECHNOLOGY

### UNIT –II

#### Part-A Objective Questions

1. The primary function of paint is to:

- a) Increase weight
- b) Protect surfaces
- c) Reduce strength
- d) Absorb water

**Answer:** b) Protect surfaces

2. Which constituent gives color to paint?

- a) Vehicle
- b) Pigment
- c) Solvent
- d) Drier

**Answer:** b) Pigment

3. Which type of paint is commonly used for steel structures?

- a) Cement paint
- b) Enamel paint
- c) Distemper
- d) Emulsion paint

**Answer:** b) Enamel paint

4. Distemper is mainly applied on:

- a) Wooden surfaces
- b) Interior walls
- c) Glass surfaces
- d) Steel bars

**Answer:** b) Interior walls

5. Varnish is used to:

- a) Protect wooden surfaces
- b) Increase cement strength
- c) Cure concrete
- d) Reduce workability

**Answer:** a) Protect wooden surfaces

6. Toughened glass is mainly used for:

- a) Foundation work
- b) Doors and windows
- c) Brick making
- d) Road works

**Answer:** b) Doors and windows

7. Which glass type is used for sound insulation?

- a) Sheet glass
- b) Wired glass

c) Laminated glass

d) Float glass

**Answer:** c) Laminated glass

8. Plastics are preferred in construction because they are:

a) Heavy

b) Corrosion resistant

c) Brittle

d) Expensive

**Answer:** b) Corrosion resistant

9. Bitumen is mainly used in:

a) Roofing and roads

b) Brick manufacture

c) Timber seasoning

d) Cement testing

**Answer:** a) Roofing and roads

10. Asphalt is a mixture of:

a) Cement and sand

b) Bitumen and aggregates

c) Lime and clay

d) Sand and gypsum

**Answer:** b) Bitumen and aggregates

11. Adhesives are materials used for:

a) Waterproofing

b) Bonding surfaces

c) Coloring walls

d) Reinforcing concrete

**Answer:** b) Bonding surfaces

12. Sealants are mainly used to:

a) Increase strength

b) Fill joints and prevent leakage

c) Reduce curing time

d) Increase density

**Answer:** b) Fill joints and prevent leakage

13. GFRP stands for:

a) Glass Fiber Reinforced Plastic

b) Ground Fiber Reinforced Polymer

c) Glass Filled Rubber Panel

d) Granite Fiber Reinforced Plastic

**Answer:** a) Glass Fiber Reinforced Plastic

14. AAC blocks are:

a) Heavyweight blocks

b) Lightweight blocks

c) Steel blocks

d) Plastic blocks

**Answer:** b) Lightweight blocks

15. Which cement is most commonly used for general construction?

a) PSC

b) White cement

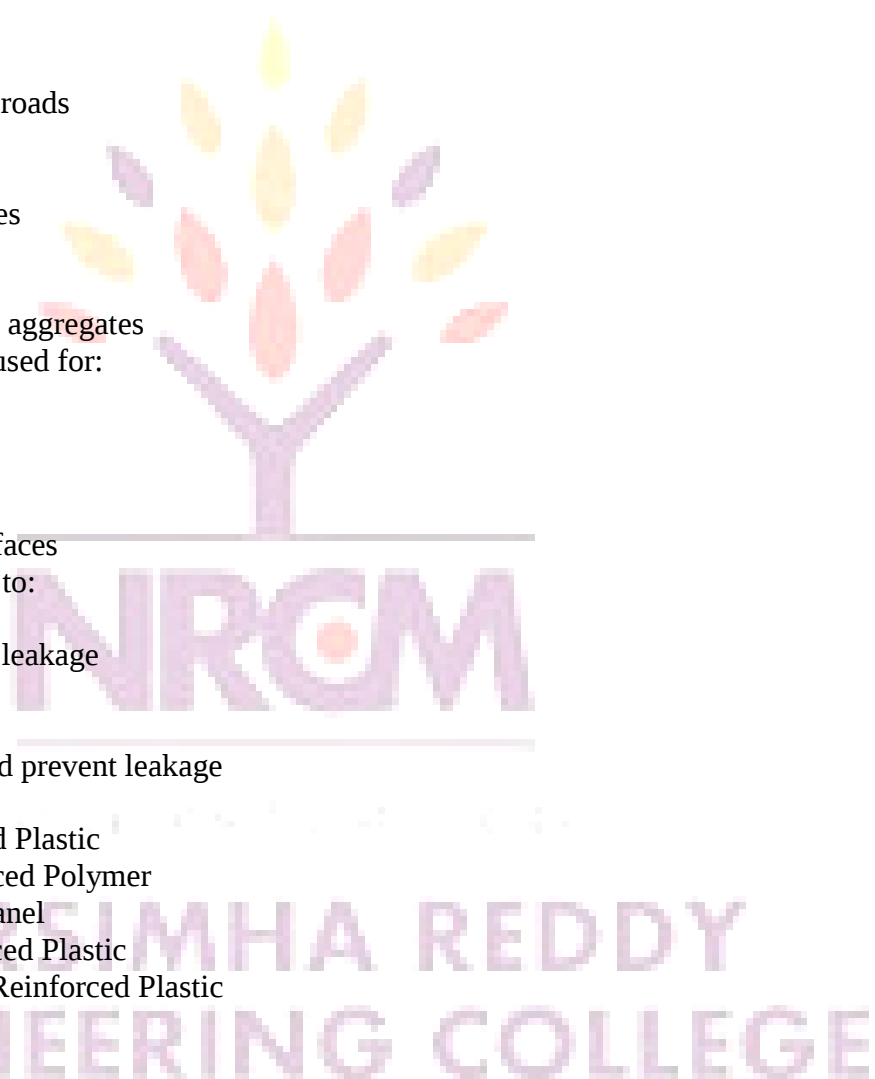
c) OPC

d) Sulphate resisting cement

**Answer:** c) OPC

16. PPC stands for:

a) Portland Pozzolana Cement



- b) Portland Plastic Cement
  - c) Pozzolana Performance Cement
  - d) Portland Powder Cement
- Answer:** a) Portland Pozzolana Cement

17. Which cement compound is mainly responsible for early strength?

- a) C2S
- b) C3S
- c) C3A
- d) C4AF

**Answer:** b) C3S

18. The standard consistency test of cement is conducted using:

- a) Slump cone
- b) Vicat apparatus
- c) Compression machine
- d) Flow table

**Answer:** b) Vicat apparatus

19. Initial setting time of ordinary Portland cement should not be less than:

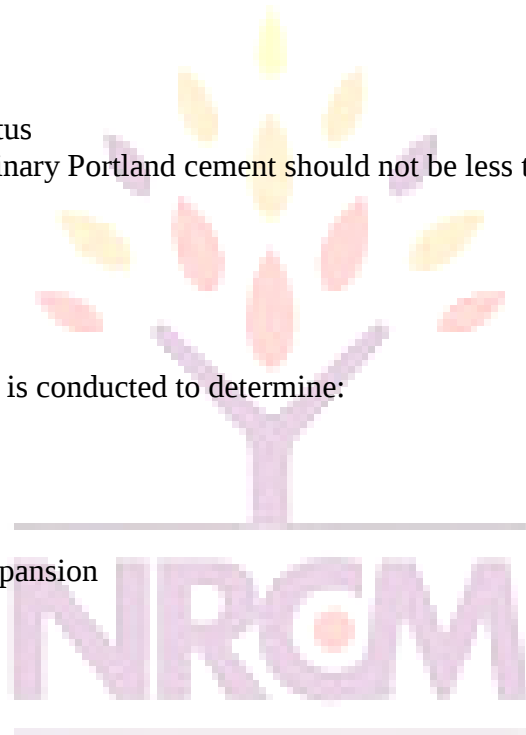
- a) 10 minutes
- b) 20 minutes
- c) 30 minutes
- d) 60 minutes

**Answer:** c) 30 minutes

20. Soundness test of cement is conducted to determine:

- a) Strength
- b) Excessive expansion
- c) Workability
- d) Color

**Answer:** b) Excessive expansion



## Part-B Fill in the blanks

1. Paint protects surfaces from \_\_\_\_\_. **Answer:** Corrosion
2. The main white pigment used in paint is \_\_\_\_\_. **Answer:** Titanium dioxide
3. \_\_\_\_\_ is commonly used for windows and doors. **Answer:** Glass
4. Toughened glass has high \_\_\_\_\_. **Answer:** Strength
5. Plastics are classified into thermoplastics and \_\_\_\_\_ plastics. **Answer:** Thermosetting
6. Bitumen is obtained from \_\_\_\_\_. **Answer:** Petroleum
7. Adhesives are used for \_\_\_\_\_ materials. **Answer:** Bonding
8. AAC stands for \_\_\_\_\_. **Answer:** Autoclaved Aerated Concrete
9. GFRP stands for \_\_\_\_\_. **Answer:** Glass Fibre Reinforced Polymer
10. Geosynthetics are mainly used for \_\_\_\_\_ reinforcement. **Answer:** Soil
11. OPC stands for \_\_\_\_\_. **Answer:** Ordinary Portland Cement
12. PPC stands for \_\_\_\_\_. **Answer:** Portland Pozzolana Cement
13. Cement is manufactured mainly from limestone and \_\_\_\_\_. **Answer:** Clay
14. The initial setting time of cement is \_\_\_\_\_ minutes. **Answer:** 30
15. Cement fineness is tested using a \_\_\_\_\_. **Answer:** Sieve