

**Chettinad**

College of Engineering & Technology

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai.

Department of Civil Engineering**CE 8401 – CONSTRUCTION TECHNIQUES AND PRACTICE****Unit – III - MCQ Bank**

1. _____ method is useful when the soil consists of sand or granular material.

- a) Vibroflotation
- b) Chemical grouting
- c) Chemical consolidation
- d) Freezing

Answer: c

2. In _____ method, the freezing pipes are driven below the existing footing and the soil is frozen.

- a) Vibroflotation
- b) Cement grouting
- c) Chemical consolidation
- d) Freezing

Answer : d

3. In _____ method, the underpinning is carried out by vibrating the sand.

- a) Cement grouting
- b) Vibroflotation
- c) Chemical consolidation
- d) Freezing

Answer : b

4. When one building is higher than the other _____ may be provided on the horizontal shores.

- a) Raking shore
- b) Pile Underpinning
- c) Flying shore
- d) Pit Underpinning

Answer: a

5. The placing of new Foundation below and the existing foundation of the process of strengthening the existing Foundation is known as the _____ of foundation.

- a) Shoring
- b) Underpinning
- c) Grouting
- d) Scaffolding

Answer: b

6. In _____ method of underpinning, the existing wall is divided into suitable sections of width about 1.20 metre to 1.50 metre.

- a) Pit Method
- b) Pile Method
- c) Miscellaneous Method
- d) Chemical Method

Answer: a

7. In _____ method, the piles are driven along both the sides of existing wall and the needle in the form of pile caps are provided through the existing one.

- a) Pit method
- b) Pile method
- c) Miscellaneous method
- d) Vibroflotation

Answer: b

8. _____ method is used to restore slab or pavement which has settled.

- a) Vibroflotation
- b) Freezing
- c) Chemical consolidation
- d) Cement grouting

Answer: d

9. In _____ method, the soil under the existing footing is consolidated by using chemicals.

- a) Chemical consolidation
- b) Freezing
- c) Cement grouting
- d) Vibroflotation

Answer: a

10. In case of releasing artesian pressure, which precaution should be taken when the system of well points is adopted.

- a) Pumping rate
- b) Air locks
- c) Duplication of pumps
- d) Blowing action

Answer: d

11. Which precautions to be taken in case of multistage system to achieve stability of the side slope?

- a) Deep well pumps
- b) Duplication of pumps
- c) Connections
- d) Pumping

Answer: a

12. The organic Chemicals include epoxy resin, polyester resin and other resins are used in which method of dewatering of the foundation trenches.

- a) Well Point System
- b) Cement grouting
- c) Chemical grouting
- d) Electro osmosis process

Answer: c

13. From given below, which method for the dewatering of foundation trenches is portable and can be easily moved when required?

- a) Pumping
- b) Well Point System
- c) Freezing process
- d) Electro osmosis process

Answer: a

14. Identify the type of Well Point System which can suck water up to 5 meters?

- a) Single stage system
- b) Multi stage system
- c) Vacuum system
- d) Pumping

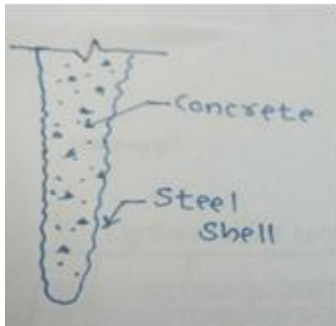
Answer: a

15. Which the given method is used for dewatering of the foundation trenches.

- a) Deep boring
- b) Geophysical method
- c) Well Point System
- d) Analytical method

Answer: c

16. Identify the type of pile.



- a) Raymond step taper concrete pile
- b) Friction pile
- c) Raymond Standard concrete pile
- d) Mac Arthur pile

Answer: c

17. A _____ is defined as a temporary structure which is constructed so as to remove water and/or soil from an area and make it possible to carry on the construction work under reasonably dry conditions.

- a) Cofferdam
- b) Foundation
- c) Caisson
- d) Spillway

Answer: a

18. A _____ is an embankment of some material.

- a) Wall
- b) Intrusion
- c) Dike
- d) Rock-fill

Answer: c

19. _____ is the simplest form of cofferdam.

- a) Single wall cofferdam
- b) Earth-fill cofferdam
- c) Cellular cofferdam
- d) Rock-fill cofferdam

Answer: b

20. _____ type of cofferdam is economical at places where rock is available in plenty.

- a) Earth dikes
- b) Sand-bags dikes
- c) Rock-fill cofferdam
- d) Single wall cofferdam

Answer: c

21. In _____ type of cofferdam consists of a mixture of sand and clay which is filled in a bag and placed instead of earth or rock to form a cofferdam.

- a) Cellular cofferdam
- b) Earth dikes
- c) Rock dikes
- d) Sand-bag dikes

Answer: d

22. _____ it suitable when available working space is limited and the area to be enclosed is small.

- a) Single wall cofferdam
- b) Double wall cofferdam
- c) Dikes
- d) Concrete cofferdam

Answer: a

23. When the area to be enclosed is large, it becomes essential to provide the _____ construction so as to give stability to the cofferdam.

- a) Single wall cofferdam
- b) Cellular cofferdam
- c) Double wall cofferdam
- d) Suspended cofferdam

Answer: c

24. _____ is useful when depth of water is about 6 metres to 10 meters.

- a) Wood or steel sheeting cofferdam
- b) Ohio river type cofferdam
- c) Rock-filled crib cofferdam
- d) Suspended cofferdam

Answer: a

25. The _____ is made of steel sheet piles and this type of cofferdam is proved successful in unwatering large areas.

- a) Suspended cofferdam
- b) Cellular cofferdam
- c) Dikes
- d) Concrete cofferdam

Answer: b

26. A _____ consist of timber cribs.

- a) Cellular cofferdam
- b) Suspended cofferdam
- c) Concrete cofferdam
- d) Rock-filled crib cofferdam

Answer: d

27. _____ is to be incorporated as a part of a permanent structure which have been proved to be economical.

- a) Concrete cofferdam
- b) Suspended cofferdam
- c) Single wall cofferdam
- d) Cellular cofferdam

Answer: a

28. _____ are the cofferdams which can be lifted, floated and placed in another position as soon as its purpose is served.

- a) Dike cofferdam
- b) Double wall cofferdam
- c) Suspended cofferdam
- d) Single wall cofferdam

Answer: c

29. In the case of dormant cracks wider than about 1m, it is more economical to use _____

- a) Epoxy resin
- b) Grouting
- c) Tensioning
- d) Ranging

Answer: b

30. In which method a refrigeration plant of required capacity is needed to be installed near the site of work?

- a) Pumping
- b) Well Point System
- c) Freezing process
- d) Electro osmosis process

Answer: c

31. _____ process consists of making a number of holes in the ground and then filling these holes by the cement grout under pressure.

- a) Chemical grouting
- b) Cement grouting
- c) Freezing process
- d) Electro osmosis process

Answer: b

32. The organic Chemicals include epoxy resin, polyester resin and other resins are used in which method of dewatering of the foundation trenches?

- a) Well Point System
- b) Cement grouting
- c) Chemical grouting
- d) Electro osmosis process

Answer: c

33. The _____ can be adopted as an aid in construction to stop rock movements and to increase the permeability of the strata as in the case of oil wells.

- a) Chemical grouting
- b) Cement grouting
- c) Pumping
- d) Well Point System

Answer: a

34. The _____ can be effectively adopted for excavation in or at the foot of the slope of a hill.

- a) Freezing process
- b) Cement grouting
- c) Pumping
- d) Well Point System

Answer: a

35. A _____ is defined as a temporary structure which is constructed so as to remove water and/or soil from an area and make it possible to carry on the construction work under reasonably dry conditions.

- a) Cofferdam
- b) Foundation
- c) Caisson
- d) Spillway

Answer: a

36. A _____ is an embankment of some material.

- a) Wall
- b) Intrusion
- c) Dike
- d) Rock-fill

Answer: c

37. _____ is the simplest form of cofferdam.

- a) Single wall cofferdam
- b) Earth-fill cofferdam
- c) Cellular cofferdam
- d) Rock-fill cofferdam

Answer: b

38. _____ type of cofferdam is economical at places where rock is available in plenty.

- a) Earth dikes
- b) Sand-bags dikes
- c) Rock-fill cofferdam
- d) Single wall cofferdam

Answer: c

39. In _____ type of cofferdam consists of a mixture of sand and clay which is filled in a bag and placed instead of earth or rock to form a cofferdam.

- a) Cellular cofferdam
- b) Earth dikes
- c) Rock dikes
- d) Sand-bag dikes

Answer: d

40. _____ it suitable when available working space is limited and the area to be enclosed is small.

- a) Single wall cofferdam
- b) Double wall cofferdam
- c) Dikes
- d) Concrete cofferdam

Answer: a

41. When the area to be enclosed is large, it becomes essential to provide the _____ construction so as to give stability to the cofferdam.

- a) Single wall cofferdam
- b) Cellular cofferdam
- c) Double wall cofferdam
- d) Suspended cofferdam

Answer: c

42. _____ is useful when depth of water is about 6 metres to 10 meters.

- a) Wood or steel sheeting cofferdam
- b) Ohio river type cofferdam
- c) Rock-filled crib cofferdam
- d) Suspended cofferdam

Answer: a

43. The _____ is made of steel sheet piles and this type of cofferdam is proved successful in unwatering large areas.

- a) Suspended cofferdam
- b) Cellular cofferdam
- c) Dikes
- d) Concrete cofferdam

Answer: b

44. A _____ consist of timber cribs.

- a) Cellular cofferdam
- b) Suspended cofferdam
- c) Concrete cofferdam
- d) Rock-filled crib cofferdam

Answer: d

45. _____ is to be incorporated as a part of a permanent structure which have been proved to be economical.

- a) Concrete cofferdam
- b) Suspended cofferdam
- c) Single wall cofferdam
- d) Cellular cofferdam

Answer: a