
Time : 1½ Hours**Construction****Subject Code**

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Total No. of Questions : 42 (Printed Pages : 8)**Maximum Marks : 40**

INSTRUCTIONS : (i) All questions are compulsory.

(ii) Write the question number and subquestion number clearly.

(iii) Figures to the right indicate full marks.

Select and write the most appropriate alternative given below each statement and rewrite the complete statement : ½×6=3

1. In VDF method is drastically reduced after placing concrete which leads to improvement in all properties of concrete.

- Water-Cement ratio
- Water Content
- Cement Content
- Aggregate Quantity

2. The method by which we can know whether the receiver have understood is

- Transmitting
- Feedback
- Message
- Listening

3. The first stage of construction is
 - Preparation of estimate
 - Survey of the site
 - Initiating of Proposal
 - Preparation of Tender

4. Keeping shoulders straight right and body relaxed is an example of
 - Facial Expression
 - Posture
 - Gesture
 - Eye Contact

5. One of the basic concepts for smooth running of organization is
 - Management
 - Co-ordination
 - Scheduling
 - Planning

6. It is important to secure materials and tools when working at height to
 - Make tools easily accessible
 - To create a visually appealing work area
 - To prevent items from falling
 - To save time by not putting things away

Answer the following questions :

2×2=4

7. What are the values which make an entrepreneur successful ?

8. How do you organize a construction project ?

Attempt the following questions :

1×3=3

9. Write any *two* areas of application of VDF flooring.

10. How to calculate water charges in rate analysis ?

11. What is the meaning of communication barrier ?

Compare the co-ordination in the first pair and complete the second pair :

$\frac{1}{2} \times 2 = 1$

12. To explore internet : Web browser

To type a document :

13. .gif, .jpg, .bmp, .png : Extensions for image data

.xlsx, .xlsm, .xltx, .xlsb :

Choose the correct term from the options given below :

$\frac{1}{2} \times 2 = 1$

(Uncourse Random Rubble Masonry, Recessed pointing, Course Random Rubble Masonry, Flush pointing)

14. The RRM in which stones are laid without forming courses and it is the roughest and cheapest type of masonry.

15. The type of pointing in which mortar is pressed hard in the racked joint and by finishing of flush with the edge of masonry unit.

16. Match the following items in Column A with correct items in Column B and write the correct pair : ½×2=1

Column 'A'	Column 'B'
(i) Safety equipment essential for working at height	(a) Helmet
(ii) Protection from falling object	(b) Welding Mask
	(c) Gloves
	(d) Safety harness

Answer the following questions : 2×2=4

17. What role does the Government play in sustainable development ?
18. What is the need of Vacuum Dewatered Flooring (VDF) ?

Answer the following questions in one line : 1×3=3

19. Write any *two* factors affecting Rate Analysis.
20. What are the benefits of VDF method ?
21. Why planning and scheduling is important in construction ?

Select and write the most appropriate alternative given below each statement and rewrite the complete statement : ½×6=3

22. The rates of materials used for Government work is approved by
- Executive Board
 - SDO
 - Elective Board
 - Board of Chief Engineer

23. The quality of fine aggregate required in IPS flooring is

- Well Graded
- Well Weighted
- Well Dried
- Well Fined

24. The quantity of sand required for RCC 1 : 2 : 4 for 15 cum of work is

- 4.76 cum
- 10.32 cum
- 8.43 cum
- 6.51 cum

25. The process of calculating the resources requirement of a project is known as

- Scheduling
- Co-ordinating
- Resource Aggregation
- Flow Control

26. The type of waste that have potential to threat the public health or the Environment is called as waste.

- Hazardous
- Liquid
- Solid
- Organic

27. Planning establishes a ground standard for

- Controlling
- Directing
- Staffing
- Organizing

Answer the following questions :

2×2=4

28. What do you mean by self-management skill ?

29. What are *five* tasks undertaken while preparing a construction project ?

Define the following terms :

1×3=3

30. Central Processing Unit (CPU) in a computer system.

31. Pointing.

32. Rate Analysis.

State whether the given statement is True or False : **$\frac{1}{2} \times 2 = 1$**

33. The purpose of erecting hazard signs and labels on construction site is to improve site aesthetics.

34. Proper training of workers is crucial before operating construction equipment to ensure safety and effective operation.

35. **Match the following items in Column A with correct items in Column B and write the correct pair :** **$\frac{1}{2} \times 2 = 1$**

Column 'A'

Column 'B'

(i) Tremix floor

(a) Residential House

(ii) Screed Vibrator

(b) Remove excess water

(c) Compaction and levelling concrete

(d) Road construction

State whether the given statement is True or False : **$\frac{1}{2} \times 2 = 1$**

36. VDF method of flooring increases compressive strength by 10-15%.

37. Initial cost of Tremix floor construction is less as compared to other types of flooring.

Answer the following questions : **$2 \times 2 = 4$**

38. What is the importance of maintaining safety protocols at construction site ?

39. What is the purpose of doing Rate Analysis ? (any *four*)

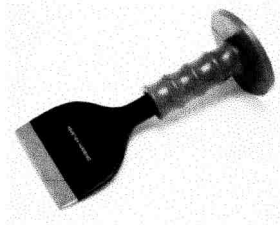
Answer the following questions :

1×3=3

40. Identify and write *one* function of given masonry tool.



41. Identify and write *one* function of given masonry tool.



42. What does PPE stand for in the context of construction safety ?

