CLASS : 10th **CODE : A** **ROLL NO. _____**

MODEL QUESTION PAPER (2026-2027)

SUBJECT :- CONSTRUCTION

National Skills Qualification Framework (NSQF)

[English Medium] — ACADEMIC

Time allowed: 2.30 hours **Maximum Marks: 60**

Important Instructions for Candidates:

- Please make sure that the printed pages in this question paper are 4 in number and it contains 30 questions.
- Before beginning to answer a question, its Serial Number must be written clearly in the answer-book.
- Don't leave blank page/pages in your answer-book. Write to the point and do not strike off answers unnecessarily.
- Candidate must write their Roll No. on the question paper. Except Roll No., do not write anything or make marks on the question paper.
- Before answering, ensure that you have been supplied the correct and complete question paper.
- **All questions are compulsory.**
  - Question Nos. 1 to 3 are Long Answer Type questions carrying 5 marks each.
  - Question Nos. 4 to 9 are Short Answer Type questions carrying 3 marks each.
  - Question Nos. 10 to 15 are Very Short Answer Type questions carrying 2 marks each.
  - Question Nos. 16 to 30 are Objective Type (MCQ / Fill in the Blanks / One Word) carrying 1 mark each.

[SECTION-A]
LONG ANSWER TYPE QUESTIONS (3 × 5 = 15 MARKS)

Q:- 1. Explain in detail the classification of Rubble Masonry with suitable descriptions for Coursed Rubble, Uncoursed Rubble, and Random Rubble Masonry. **[5 Marks]**

OR

Describe the various types of joints used in stone masonry construction (Butt joint, Rebated joint, Tabled joint, Plugged joint, and Cramped joint).

Q:- 2. Describe the step-by-step procedure of laying bricks in a wall both below the plinth level (in foundation) and above the plinth level. **[5 Marks]**

OR

Explain the general principles and precautions that must be strictly observed during the construction of brick masonry walls.

Q:- 3. Explain the construction details and requirements of formwork (shuttering) designed for RCC beams and slab floors. **[5 Marks]**

OR

Describe the step-by-step procedure for laying Cement Concrete Flooring. Mention the preparation of sub-grade, proportions, laying, and curing process.

[SECTION-B]
SHORT ANSWER TYPE QUESTIONS (6 × 3 = 18 MARKS)

Q:- 4. Why is slope (camber) provided in flooring work, and what are the standard ratios provided for different types of floors? **[3 Marks]**

Q:- 5. What is scaffolding? Differentiate clearly between Single Scaffolding and Double Scaffolding. **[3 Marks]**

Q:- 6. List the standard steps to be followed while installing single scaffolding safely at a construction site. **[3 Marks]**

Q:- 7. How is the maintenance of stone masonry carried out in respect of cleaning iron, oil, and smoke stains? **[3 Marks]**

Q:- 8. What are the advantages and disadvantages of English Bond compared to Flemish Bond in brick masonry? **[3 Marks]**

OR

Explain any four hand tools used in brick masonry along with their specific functions.

Q:- 9. Explain the methods used for joining new brickwork with old existing brickwork (Toothing, Racking Back, and Block Bonding). **[3 Marks]**

OR

What are the different types of Ashlar masonry? Explain Ashlar Fine and Ashlar Chamfered masonry.

[SECTION-C]
VERY SHORT ANSWER TYPE QUESTIONS (6 × 2 = 12 MARKS)

Q:- 10. What is the main purpose of shuttering or formwork in the construction of a building? **[2 Marks]**

Q:- 11. Write any four essential requirements of a good formwork system as per Indian Standards. **[2 Marks]**

Q:- 12. What is stripping time? State the minimum stripping time for vertical column shuttering and beam soffit props (span < 6m). **[2 Marks]**

Q:- 13. Define 'Efflorescence' in brick masonry and state its main cause. **[2 Marks]**

Q:- 14. Write the safety equipment and PPE required for workers while working at heights on scaffolding. **[2 Marks]**

OR

Name four mechanical tools/machines used in modern flooring operations.

Q:- 15. Differentiate between Ashlar masonry and Rubble masonry based on dressing and joint thickness. **[2 Marks]**

OR

Define 'Queen Closer' and 'King Closer' used in brick masonry.

[SECTION-D]
OBJECTIVE TYPE QUESTIONS (15 × 1 = 15 MARKS)

Q:- 16. Stones used for heavy engineering structures like lighthouses, docks, and bridge piers should be: **[1 Mark]**

a) Soft and porous
b) Granite and gneiss
c) Marble and laterite
d) Chalk and clay

Q:- 17. Standard nominal size of a modular brick including mortar joint thickness is: **[1 Mark]**

a) 19 cm × 9 cm × 9 cm
b) 20 cm × 10 cm × 10 cm
c) 22 cm × 10 cm × 7 cm
d) 15 cm × 15 cm × 10 cm

Q:- 18. Defects due to frost action in brickwork primarily lead to: **[1 Mark]**

a) Cracking in the brickwork
b) Tightening of the brickwork
c) Hardening of the mortar
d) Discoloration of paint

Q:- 19. 'Jambs' is a construction term used to denote: **[1 Mark]**

a) Top horizontal member of a door
b) Vertical side of a door or window frame
c) Bottom surface of a window
d) Arch support beneath a wall

Q:- 20. The horizontal transverse scaffold member on which the scaffold platform rests is called: **[1 Mark]**

a) Standard
b) Ledger
c) Putlog
d) Toe board

Q:- 21. Terrazzo flooring is made of marble chips embedded in a binder matrix, which makes it a: **[1 Mark]**

a) Simple material
b) Composite material
c) Organic material
d) Natural stone block

Q:- 22. Ceramic tiles are manufactured primarily from: **[1 Mark]**

a) Clay and sand
b) Clay and cement
c) Cement and gravel
d) Lime and gypsum

Q:- 23. Which tool is used along with a straight edge for checking the level of floors and roofs? **[1 Mark]**

a) Plumb bob
b) Spirit level
c) Trowel
d) Brick hammer

Q:- 24. Which of the following sentences is an imperative sentence? **[1 Mark]**

a) Switch off the fan.
b) Sheila has gone to the market.
c) Where are my pen colours?
d) Oh no! I missed my flight.

Q:- 25. What quality enables an individual to complete work or studies independently without external cheer? **[1 Mark]**

a) Communication
b) Self-motivation
c) Over-confidence
d) Empathy

Q:- 26. Which keyboard shortcut is used to copy selected content on a computer? **[1 Mark]**

a) Ctrl + X
b) Ctrl + C
c) Ctrl + Z
d) Ctrl + Y

Q:- 27. How does antivirus software protect a digital device? **[1 Mark]**

a) Protects hardware from overheating
b) Prevents data from getting corrupted by malware
c) Increases internet speed automatically
d) Cleans dust from system fans

Q:- 28. Ledger in scaffolding is a horizontal _____ brace. **[1 Mark]**

Q:- 29. The upright vertical component of scaffolding with connector joints is called _____. **[1 Mark]**

Q:- 30. The horizontal layer of mortar upon which bricks or stones are laid is known as _____ joint. **[1 Mark]**