

Class : 12th

**Model Question Paper: Year
2026-2027**

Roll No. _____

Subject: Construction (Brick Masonry)

National Skills Qualification Framework (NSQF)

English & Hindi Medium | ACADEMIC (Simplified Version)

समय: 2.30 घण्टे]

Time allowed: 2.30 hours]

पूर्णांक: 60

[Maximum Marks: 60]

Important Instructions / महत्वपूर्ण निर्देश:

- कृपया जांच कर लें कि इस प्रश्न-पत्र में मुद्रित पृष्ठ 4 तथा प्रश्न 30 हैं। / Please make sure that the printed pages in this question paper are 4 in number and it contains 30 questions.
- कृपया प्रश्न का उत्तर लिखना शुरू करने से पहले, प्रश्न का क्रमांक अवश्य लिखें। / Before beginning to answer a question, its Serial Number must be written.
- उत्तर-पुस्तिका के बीच में खाली पन्ना न छोड़ें। / Don't leave blank page/pages in your answer-book.
- उत्तर-पुस्तिका के अतिरिक्त कोई अन्य शीट नहीं मिलेगी। अतः आवश्यकतानुसार ही लिखें और लिखा उत्तर न काटें। / Except answer-book, no extra sheet will be given. Write to the point and do not strike the written answer.
- परीक्षार्थी अपना रोल नं० प्रश्न-पत्र पर अवश्य लिखें। / Candidate must write their Roll No. on the question paper.
- कृपया प्रश्नों के उत्तर देने से पूर्व यह सुनिश्चित कर लें कि प्रश्न-पत्र पूर्ण व सही है। / Before answering the questions, ensure that you have been supplied the correct and complete question paper.

Question Distribution & Scheme of Marks:

- All questions are compulsory.
- Questions No. 1 to 3 are Long Answer Type Questions carrying 5 marks each.
- Questions No. 4 to 9 are Short Answer Type Questions carrying 3 marks each.
- Questions No. 10 to 15 are Very Short Answer Type Questions carrying 2 marks each.
- Questions No. 16 to 30 are Objective Type Questions (MCQ / One Word / Fill in the Blank) carrying 1 mark each.

[SECTION-A]

LONG ANSWER TYPE QUESTIONS (3 × 5 = 15 MARKS)

Q.1. Explain the step-by-step process of stone masonry construction. What precautions should be taken during construction?

OR

Q.1. What is Stone Masonry? Explain the main qualities of good building stones used in wall construction.

Q.2. What is concrete flooring? Explain the construction procedure and advantage of IPS (Indian Patent Stone) flooring.

OR

Q.2. Explain Tremix (Vacuum Dewatered) flooring. What tools and machinery are used in its construction?

Q.3. What safety rules should be followed by workers at a construction site to prevent accidents?

OR

Q.3. Explain the different types of Fire Extinguishers and write the step-by-step procedure to use a Fire Extinguisher (PASS method).

[SECTION-B]

SHORT ANSWER TYPE QUESTIONS (6 × 3 = 18 MARKS)

Q.4. Write any three differences between Brick Masonry and Stone Masonry.

Q.5. What is Pointing in masonry work? Mention two main reasons why pointing is done.

Q.6. List any three advantages of Vacuum Dewatered Flooring (Tremix Flooring).

Q.7. Name any six Personal Protective Equipment (PPE) used for safety at a construction site.

Q.8. How should cement bags be safely stored and stacked at a construction site?

OR

Q.8. Name any four hand tools used in stone masonry and write their uses.

Q.9. What basic First Aid steps should be taken if a worker gets injured at work site?

OR

Q.9. What are Tile Adhesives? Why are adhesives preferred over plain cement mortar for tile laying?

[SECTION-C]

VERY SHORT ANSWER TYPE QUESTIONS (6 × 2 = 12 MARKS)

Q.10. Why is curing (tarai) important for concrete structures?

Q.11. Write two properties of Granite stone.

Q.12. What is the use of a Spirit Level tool in construction?

Q.13. State two precautions while stacking bricks at site.

Q.14. Define Mortar (Masala) and write its main ingredients.

OR

Q.14. What is the full form of PPE and VDF?

Q.15. What is First Aid Box? Name two items kept in it.

OR

Q.15. Define Dry Stone Masonry.

[SECTION-D]

OBJECTIVE TYPE QUESTIONS (15 × 1 = 15 MARKS)

Q.16. Which tool is used to check the vertical straightness of a wall?

- | | |
|------------------------|-------------------|
| a) Plumb bob (Sahawal) | b) Trowel (Kurni) |
| c) Measuring Tape | d) Screed |

Q.17. Which of the following is a Personal Protective Equipment (PPE)?

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|------------------|-----------------|
| a) Safety Helmet | b) Safety Shoes |
| c) Hand Gloves | d) All of these |

Q.18. IPS flooring stands for:

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|------------------------|---------------------------------|
| a) Indian Patent Stone | b) International Polish Surface |
| c) Indian Plain Slate | d) Industrial Polymer Stone |

Q.19. Standard minimum curing time for concrete work is:

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|------------|-------------|
| a) 1 day | b) 7 days |
| c) 40 days | d) 100 days |

Q.20. Which material acts as a binding agent in cement mortar?

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|----------|--------------|
| a) Sand | b) Cement |
| c) Water | d) Aggregate |

Q.21. In the PASS rule of fire safety, 'P' stands for:

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|------------------|--------------------|
| a) Pull the pin | b) Push the button |
| c) Pass the hose | d) Pour water |

Q.22. Tremix flooring is also known as:

- | | |
|--------------------|------------------------------|
| a) Brick flooring | b) Vacuum Dewatered Flooring |
| c) Timber flooring | d) Glass flooring |

Q.23. How should cement bags be kept from the wall while storing?

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|-------------------------|------------------------|
| a) Touching the wall | b) At least 60 cm away |
| c) Outside in open rain | d) Under water |

Q.24. Granite is a type of:

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|---------------------|---------------------|
| a) Igneous Rock | b) Sedimentary Rock |
| c) Artificial Stone | d) Wood |

Q.25. Fire caused by electrical equipment comes under:

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|-----------------|------------------------------|
| a) Class A Fire | b) Class C / Electrical Fire |
| c) Class D Fire | d) Paper Fire |

Q.26. Masonry constructed without mortar is called:

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|-----------------------|-----------------|
| a) Reinforced Masonry | b) Dry Masonry |
| c) Ashlar Masonry | d) Tile Masonry |

Q.27. Safety helmets protect workers from:

- | | |
|-------------------------------------|--------------|
| a) Head injury from falling objects | b) Foot cuts |
| c) Eye irritation | d) Noise |

Q.28. Which tool is used to mix mortar and lift small aggregate?

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|----------------------------|--------------|
| a) Phawra (Spade) / Trowel | b) Plumb bob |
| c) Chisel | d) Vibrator |

Q.29. The full form of PPE is Personal Protective _____.

Q.30. Filling and finishing of joints between bricks/stones is called _____.