



## **SAMPLE TEST QUESTIONS BRICKLAYER - ITA WEBSITE**

- 1 Which chisel is used to remove deteriorated mortar joints in restoration work?
  - A. Cold.
  - B. Pointing.
  - C. Plugging.
  - D. Brick set (bolster).
  
- 2 A room is 12 m × 9 m. What should be the diagonal measurement to ensure that the room is square?
  - A. 9 m
  - B. 12 m
  - C. 13 m
  - D. 15 m
  
- 3 How much flagstone is required for a 2 000 m × 4 000 mm patio if 1 t covers 1.5 m<sup>2</sup>?
  - A. 2.3 t
  - B. 4.0 t
  - C. 5.3 t
  - D. 12.0 t
  
- 4 What is the procedure for mixing a muriatic acid solution to clean brick?
  - A. Mix the water into the acid.
  - B. Mix the acid into the water.
  - C. Mix the acid into a soapy water solution.
  - D. Mix soapy water solution into the acid.



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- 5 What is the procedure to lay out a block foundation?
- A. Place marks on footings indicating size of wall and square up with benchmark.
  - B. Plumb down from batter boards to find corners, find bond for blocks to be laid, and determine elevation of corners.
  - C. Place centre marks on footing of foundation, cut blocks for corners, then square corners of foundation.
  - D. Place lines on batter boards to get building lines, plumb down from intersection of lines to find corners, then determine bond.
- 6 How many standard blocks are required per course on a 7 200 mm long wall?
- A. 16
  - B. 18
  - C. 32
  - D. 36
- 7 How should a bed joint be spread for the first course in a non-reinforced concrete block foundation?
- A. Full bed.
  - B. Less than 5 mm thick.
  - C. More than 25 mm thick.
  - D. Using face shell bedding.
- 8 What is the ratio of Portland cement, lime and sand to produce type S mortar?
- A. 1 part Portland cement, 1/2 part lime, 4 1/2 parts sand.
  - B. 1 part Portland cement, 1 part lime, 6 parts sand.
  - C. 1 part Portland cement, 2 parts lime, 9 parts sand.
  - D. 1 part Portland cement, 4 part lime, 9 parts sand.



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- 9 Which types of mortar should be used to build a brick veneer wall?
- A. M or K
  - B. S or N
  - C. K or O
  - D. S or M
- 10 How much grout is needed to fill a 20 mm cavity for a 3.0 m × 5.2 m wall?
- A. 0.231 m<sup>3</sup>
  - B. 0.295 m<sup>3</sup>
  - C. 0.312 m<sup>3</sup>
  - D. 0.362 m<sup>3</sup>
- 11 Concrete block is layed out so that each course gauges at 200 mm. How high will the wall be after 26 courses?
- A. 2.6 m
  - B. 3.8 m
  - C. 4.2 m
  - D. 5.2 m
- 12 What must be done to the substrate in a cavity wall system when preparing for application of a peel and stick membrane?
- A. It is primed.
  - B. It is sandblasted.
  - C. It is power washed.
  - D. It is etched with acid.



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- 13 How is rigid insulation installed in a cavity wall system?
- A. With a 25 mm air space.
  - B. With a 50 mm air space.
  - C. Tight to the back-up wall.
  - D. Tight to the exterior wythe.
- 14 What is the maximum allowable spacing for weep holes installed in veneer?
- | <b>METRIC</b> |          | <b>IMPERIAL</b> |        |
|---------------|----------|-----------------|--------|
| A.            | 400 mm   | A.              | 16 in. |
| B.            | 600 mm   | B.              | 24 in. |
| C.            | 800 mm   | C.              | 32 in. |
| D.            | 1 000 mm | D.              | 40 in. |
- 15 Which type of fastener is used to attach wall ties to a wood frame structure?
- A. Common nail.
  - B. Carriage bolt.
  - C. Wood screw.
  - D. Machine screw.
- 16 At which stage of wall construction are wall plates and bearing plates installed?
- A. After the wall is set.
  - B. While the wall is being built.
  - C. After the scaffolding is removed.
  - D. While the steel members are being installed.
- 17 How many control joints are needed in a 75 m foundation wall?
- A. 2
  - B. 3
  - C. 4
  - D. 5



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- 18 What is done to prevent concrete blocks from shifting on a retaining wall?
- A. Pour grout into the first course.
  - B. Horizontally reinforce the first course.
  - C. Lay the first course in the footing concrete while it is fresh.
  - D. Install vertical dowels and grout at spaced intervals in the footing.
- 19 What must be done when placing joint reinforcing in a block wall at a control joint?
- A. Place the wire through the joint.
  - B. Overlap the wire through the joint.
  - C. Stop the wire both sides of the joint.
  - D. Stop the wire a metre from the joint.
- 20 How are prefabricated masonry panel curtain walls fastened to a steel frame structure?
- A. Using metal veneer wall ties.
  - B. Using masonry ties built onto the floor levels.
  - C. By welding or bolting angle iron clips to the frame.
  - D. By interlocking concrete beams from the structure into the masonry wall.
- 21 Which type of chisel is used to dress stone edges?
- A. Comb.
  - B. Point.
  - C. Pitch.
  - D. Plug.
- 22 How is the bedding plane of cut ashlar stone laid?
- A. Parallel to the bed joints.
  - B. Parallel to the cross joints.
  - C. Diagonally to the bed joints.
  - D. Diagonally to the cross joints.



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- 23 What is the minimum height above the chimney cap that chimney lines must extend?
- A. 25 mm
  - B. 38 mm
  - C. 50 mm
  - D. 75 mm
- 24 What is the procedure to install refractory plastic on a wall?
- A. Install several slabs at a time and ram.
  - B. Build forms, fill with plastic and ram the top.
  - C. Install in layers ramming each slab individually.
  - D. Build forms and ram plastic in one box at a time.
- 25 What is done to ensure a good bond when preparing a wall for tuck-pointing?
- A. Power wash the entire surface.
  - B. Clean and wet down the area.
  - C. Remove and replace the defective mortar.
  - D. Remove defective mortar, clean and dampen joints.
- 26 Which type of mortar is used for re-pointing historical clay brick masonry where there is **no** high lateral load?
- A. N
  - B. S
  - C. K
  - D. M



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- 27 What is required under the base course when starting a glass block panel?
- A. Wood base.
  - B. Metal angle.
  - C. Metal channel.
  - D. Asphalt emulsion.
- 28 How many radius points are used on a gothic arch?
- A. 1
  - B. 2
  - C. 3
  - D. 4
- 29 What is done to release frame wedges in arch construction?
- A. Tap outward.
  - B. Jack up frame.
  - C. Cut template into pieces.
  - D. Strike template with sledge.
- 30 What is the sequence to re-joint points after removing the template?
- A. Wet joints, parge soffit and re-joint.
  - B. Wet joints and slick over hard mortar.
  - C. Cut out joints, brush, wet and re-point.
  - D. Cut out joints with sledge and re-point.