

BUILDING MATERIALS & CONSTRUCTION

Time Allowed: 3 Hours

Full Marks: 70

Answer to Question No.1 is compulsory and to be answered first.
This answer is to be made in separate loose script(s) provided for the purpose.
Maximum time allowed is 45 minutes, after which the loose answer scripts will be collected and fresh answer scripts for answering the remaining part of the question will be provided.
On early submission of answer scripts of Question No.1, a student will get the remaining script earlier.

Answer any five questions from the rest.

1. Answer the following questions (any twenty): 20x1
- i) The size of brick with mortar is called _____ size but without mortar is called _____ size
 - ii) The bottom horizontal part of an opening is called _____.
 - iii) Granite, after metamorphism transforms to _____.
 - iv) Hollow bricks are used for _____ and _____ insulation
 - v) For high quality and durable furniture which of the following wood is preferred most? – (a) Babool (b) Deodar (c) Teak wood (d) Shishum.
 - vi) Plywood is specified by – (a) weight (b) volume (c) thickness (d) number of layers.
 - vii) Hard boards are example of – (a) plywood (b) fibre board (c) particle board (d) chip board.
 - viii) PVC and CPVC are equally good in elevated temperature. (T/F)
 - ix) The main ingredient of a paint is (a) alcohol (b) drier (c) oil (d) pigment.
 - x) Snowcem is oil paint. (T/F)
 - xi) _____ are provided above any kind of opening in walls.
 - xii) Multi-storeyed building is the buildings having more than 4 storey or height more than _____ m.
 - xiii) Underreamed piles are provided in _____ soils.
 - xiv) A brick cut half, longitudinally is called as _____.
 - xv) The standard size of a traditional brick is _____.
 - xvi) The height of wall to be constructed in a day should not exceed _____ m.
 - xvii) The cornice is provided at the – (a) plinth level (b) lintel level (c) ceiling level (d) sill level.
 - xviii) A door has two parts _____ and _____.
 - xix) _____ Window is provided in a pitched roof.
 - xx) Door should be placed near the corner of the room (T/F).
 - xxi) The vertical outside members of the door shutters are called as _____.
 - xxii) 8DS21 denotes a – (a) door (b) window (c) ventilator (d) none of these.
 - xxiii) Dampness can cause _____ of the reinforcement.
 - xxiv) Terazzo consists of cement concrete and _____.
 - xxv) The floor topping consists of 1:2:4 cement concrete (T/F).
 - xxvi) Slopping roofs are also called as _____.
 - xxvii) Horizontal members used to support common rafter are – (a) ridge (b)eaves (c) purlins (d) battens.
 - xxviii) The vertical face of a step is called _____.
 - xxix) The process of finishing mortar joints is known as _____.
 - xxx) Anti termite treatment can be done only prior to the construction. (T/F)
2. a) State and give function of any four constituents of a good brick earth.
b) Write any four uses of plywood.
c) List four types of flooring. 4+4+2
3. a) Write various types and use of special mortars.
b) State any Two Defects occur in timber.
c) Draw Cross Section of trunk of timber. Give any four engineering properties of timber. 4+2+4

4. a) State any four characteristics of good brick.
b) Define Mortar. State properties of good mortar.
c) What is mean by the term 'dressing of stone'? 4+4+2
5. a) Write short note on (any two) (i) Scaffolding (ii) Shoring (iii) Stucco plaster.
b) List the requirements of good building stone. (2½+2½)+5
6. a) Differentiate between load bearing structure and framed structure.
b) Enlist the precautions which are required to be taken while marking layout on ground for a structure.
c) Define the term 'Newel Post' with reference to stairs. 4+4+2
7. a) Enlist various building components. Explain any two of them.
b) Enlist the precautions which are required to be taken while marking layout on ground for a structure.
c) Define the term 'Newel Post' with reference to stairs. 4+4+2
8. a) What are the requirements of good foundation?
b) Explain timbering and strutting for foundation trench. 4+3+3
9. a) Enlist various type of doors. Explain any two of them.
b) Sketch neatly large view of stair to show details of the following – (i) Nosing (ii) Baluster (iii) Waist (iv) Tread.
c) What are the various types of crack? 4+4+2
10. a) Enlist the types of floors. Explain any one.
b) Differentiate between pitched roof and flat roof.
c) Write any four tools and plants used for excavation. 4+4+2

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