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Time : 1½ Hours**CONSTRUCTION****Subject Code**

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Total No. of Questions : 3**(Printed Pages : 6)****Maximum Marks : 30**

INSTRUCTIONS : (i) Answer each question on a fresh page.

(ii) Write the question number and sub-question number clearly.

(iii) All questions are compulsory.

(iv) Figures to the right indicate full marks.

1. (A) Choose and write the *correct* alternative from the options given below : 3

(1) In fitting a stop valve standard should be used for drain-off valves.

(a) BS1010

(b) BSEN1074

(c) BS2829

(d) BS1011

(2) Heat resisting glass which is used for making cooking utensils, electric insulator and laboratory apparatus is

(a) pyrex glass

(b) flint glass

(c) ultra-violet ray glass

(d) laminated glass

- (3) G.I. pipes used for water supply, sewerage and drainage work, stamped at every metre and marked at the end with yellow colour is termed as
- (a) medium duty pipe
 - (b) light duty pipe
 - (c) heavy duty pipe
 - (d) very heavy duty pipe
- (4) A glass which is obtained by adding oxides of metals to molten glass and are used for decoration works in buildings are called
- (a) insulating glass
 - (b) wired glass
 - (c) coloured glass
 - (d) boro-silicate glass
- (5) While laying a water supply pipe line and sewer line horizontal distance between the two shall be minimum to avoid contamination of drinking water.
- (a) 0.5 m
 - (b) 1.0 m
 - (c) 1.50 m
 - (d) 3.0 m

(6) Dismantling of masonry should always proceed systematically storey by storey from

- (a) bottom to top
- (b) in between the masonry
- (c) top to bottom
- (d) randomly

(B) Answer the following questions : 3

- (1) Define distemper.
- (2) List any *two* materials required for water proofing work in building.
- (3) What is meant by routine maintenance of building ?

(C) Answer the following questions : 4

- (1) Explain the procedure of fixing wall paper on the wall surface.
- (2) Differentiate between oil varnish and spirit varnish.

2. (A) Choose and write the *correct* alternative from the options given below : 3

- (1) Construction of petroleum refineries, chemical plants, steel plants, power stations are classified under
- (a) light construction
- (b) heavy construction
- (c) industrial construction
- (d) commercial construction

- (2) A stage which comes between the acceptance of a tender and the completion of site work is called as
- (a) pretender stage
 - (b) land acquisition
 - (c) maintenance period
 - (d) contract stage
- (3) For water supply pipe lines on long rising grades or flat runs where there are no significant high points or grade changes, should be placed at least every 500-1000 metres.
- (a) float valve
 - (b) scour valve
 - (c) air valve
 - (d) piston valve
- (4) Materials such as bricks, cement, aggregate, steel for reinforcement, shuttering materials and items such as diesel and petrol come under category.
- (a) manpower
 - (b) funds
 - (c) plant/equipment and tools
 - (d) materials and powers

- (5) The settlement of foundation walls, beams, slabs are classified under
- (a) common building defect
 - (b) structural defect
 - (c) non-structural defect
 - (d) none of the above
- (6) As per PWD works, Petty works should have cost
- (a) below 50 Lakhs
 - (b) above 50 Lakhs
 - (c) 75 Lakhs
 - (d) above 1 crore

(B) Answer the following questions : 3

- (1) Draw the plumbing symbols for the following items :
- (a) Gate valve
 - (b) Lavatory
- (2) Write any *two* properties of glass used in building construction.
- (3) Explain bulletproof glass giving *two* points.

(C) Answer the following questions : 4

- (1) Write a short note on cement painting giving *four* points.
- (2) Name and explain any *two* defects in painting on plastered surface.

3. (A) Answer the following questions : 3
- (1) Write any *two* points to be noted during building inspection.
 - (2) Explain lumpsum contract.
 - (3) Write any *two* powers of inspection agency laid down in the conditions of contract.
- (B) Answer the following questions : 4
- (1) Tabulate the following forms used in estimation of the building.
 - (a) Measurement sheet
 - (b) Abstract sheet
 - (2) Write *four* methods of cleaning glass panes.
- (C) Answer the following questions : 3
- (1) Calculate the quantity of skirting and flooring referring the following figure :

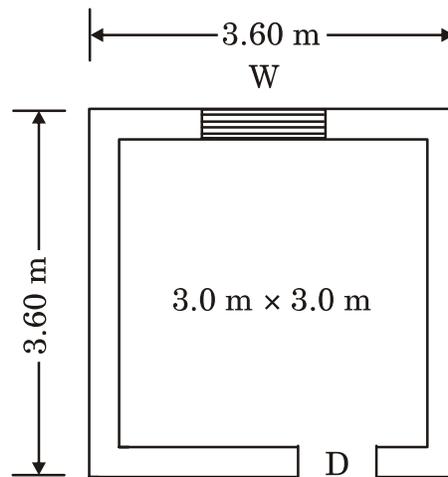


Fig.

Note : Door opening = 1.0 m wide

Skirting = 0.10 m height