

071

BUILDING CONSTRUCTION

TIME: 3 Hours

Friday November 14, 2003 a.m.

Instructions

- 1. This paper consists of sections A, B and C.
- Answer ALL questions in sections A and B, and TWO (2) questions from section □
- Electronic calculators are not allowed in the examination room.
- 4. Cellular phones are not allowed in the examination room.
- 5. Write your Examination Number on every page of your answer booklet(s).



This paper consists of 6 printed pages.



SECTION A (20 marks)

Answer ALL questions in this section.

- For each of the stems (i) -(x) choose the correct answer from among the given alternatives and write its letter beside the item number.
 - The person who represents the contractor on site for running the work is the
 - General foreman
 - Engineer Architect B

 - Clerk of work D
 - Quantity surveyor.
 - The bend of communication pipe near the water main is known as
 - an elbow bend
 - AB a Tee-bend an offset bend

 - a U bend
 - an expansion bend.
 - (iii) A quarter turn stair has
 - a landing along a quarter shaped flight
 - a landing between two flights of stair
 - a single flight of stair terminated by a landing

 - two flights separated by a tread and riser two landings connected by a single flight of starr
 - (iv) The component that links the tops of the rafters on roofs is known as
 - king post
 - В strut
 - purlin
 - ridge board
 - wall plate
 - (v) A good mortar used in brickwork should satisfy certain requirements except the following:
 - Adequate strength
 - Good workability B
 - Retain plasticity for a short period of time
 - Durable over a long period D
 - Bond well to the bricks.
 - (vi) The purpose of D.P.C. in buildings is to
 - stop moisture which passes through the floor, cracks and roof
 - prevent cracks within the building and dry floor
 - provide dry floor finish and good appearance of the building
 - make sure that the anticipated strength of the building is achieved at low cost D
 - provide barrier to the passage of moisture from external sources into the fabric of the building.

Match the ite beside the me

- Com purli

(11)

- (iii) The
- (iv) The (v)
- joins (vi) Woo
- (vii) A fr

hec

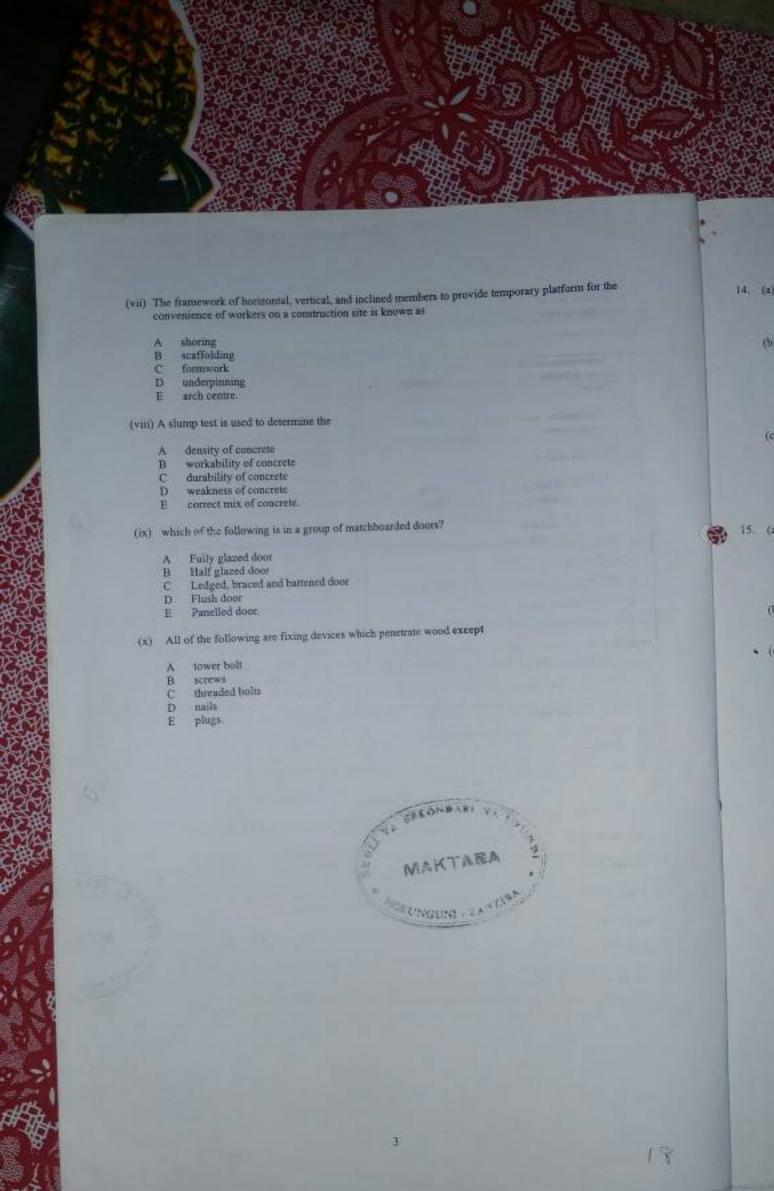
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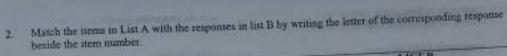
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- (a) A cos
- (b) A lea

List four fu

- (a) Defin
 - (b) Expli





LISTA		LISTB	
(viii	 To prevent people falling off a stair and to increase stability of the stair 	R	An intermediate member of
(ix)		1	The wall above it collapses after sometime due to rotting
(x)	The horizontal timber members that support polings		

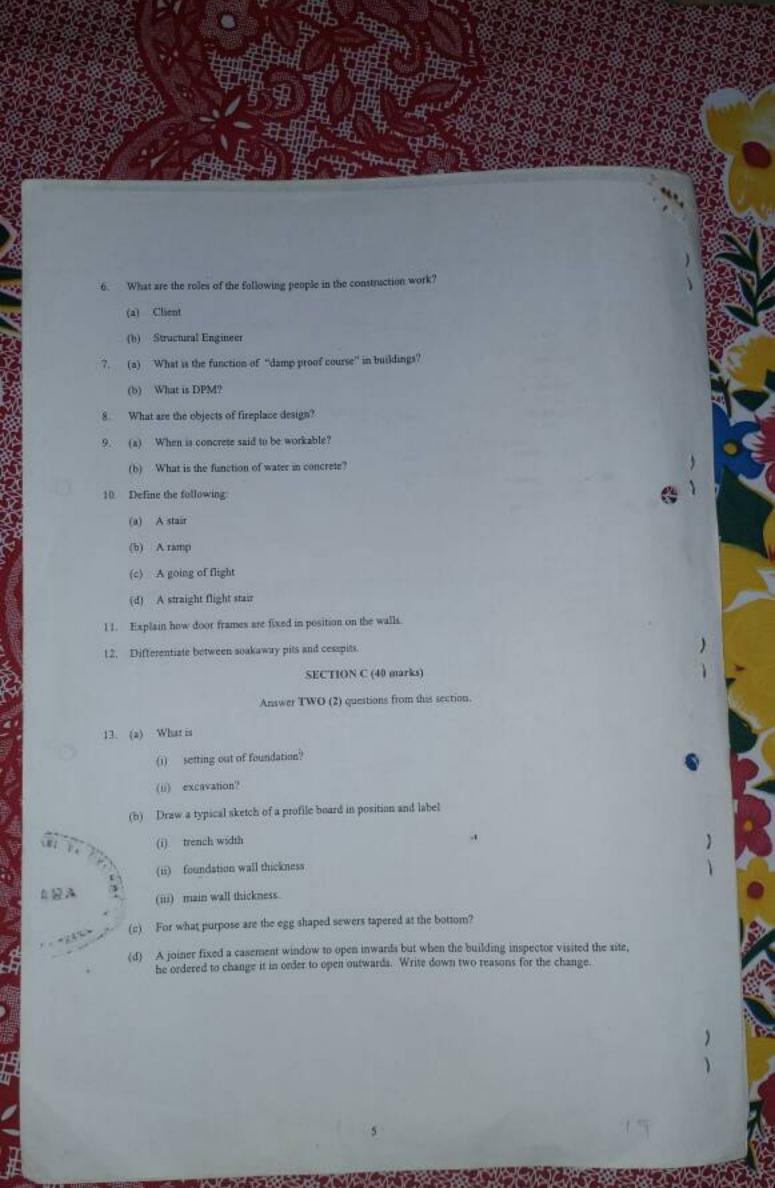
SECTION B: (40 marks)

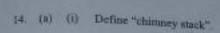
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SEE NOU!

Answer ALL questions in this section.

- Show by means of sketches the following types of tools:
 - (a) A couple roof
 - (b) A lean to roof.
- List four functions of hardcore.
- 5. (a) Define "a building line"
 - (b) Explain two ways in which excessive construction works can be avoided/minimised.





- (ii) What is the greatest problem of chimney stacks?
- (b) When is each of the following fittings used in the arrangement of drainage as it collects water from roofs through rainwater down pipes?
 - (i) Rain water shoe
 - (ii) Back inlet gully,
- With the help of sketches, show how the following positions of inspection chambers are differentiated
 - (i) At the change of direction of the drain
 - (ii) At the change of gradient of the drain
- 15. (a) Define the following:
 - (i) Flight
 - (ii) Landing
 - With the help of sketches, show the different methods of jointing risers to treads and alternative nosings.
 - (c) With the aid of a sketch, explain the construction of winders in a staircase.