

17209

15116

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any TEN of the following:

20

- a) Give broad classification material.
- b) State the role of civil engineering in human life.
- c) What is mean by the term ‘dressing of stone’?
- d) State the characteristics of good timber.
- e) Define bitumen.
- f) Enlist the common field tests conducted on the bricks.
- g) Define cement.
- h) Give the any two properties of plywood.
- i) Enlist two brand names of water proofing and dam proofing material.
- j) List the any two types of fibres used as construction material.
- k) State any two properties of cladding material.
- l) Give the two uses of rice husk as construction material.

P.T.O.

2. Attempt any FOUR of the following:

- a) State any four criteria for selection of construction material.
- b) State the one example of the following of construction material:
 - (i) Natural
 - (ii) Recycled construction material.
- c) State the requirement of good building stone (any four)
- d) State any four properties of good timber.
- e) Enlist any four defects in timber.
- f) State any four characteristic of stone.

3. Attempt any FOUR of the following:**16**

- a) Define asphalt and state any three properties of asphalt.
- b) State the various types tar used in civil engineering work and state their two uses.
- c) How lime is slaked?
- d) State the characteristics of good flooring tiles.
- e) State four brand names of cement commonly available in market.
- f) State any four characteristics of good brick.

4. Attempt any FOUR of the following:**16**

- a) Suggest the type of glass used for the following work.
 - (i) Making panel of partition wall
 - (ii) Cashier cabin
 - (iii) Sky light
 - (iv) Door shutter

- b) State any four advantages of artificial sand.
- c) Write any two properties of particle board and Veneers.
- d) Define aggregate and state different types.
- e) Enlist any four field tests conducted on cement.
- f) State any two properties and two uses of pre cast concrete product.

5. Attempt any FOUR of the following: 16

- a) Explain the procedure of manufacturing of burnt brick.
- b) State the properties of thermal insulating material. (any four)
- c) State any two properties and situations where sound insulating material is used.
- d) Enlist the four uses of asbestos fibre in construction.
- e) State the properties and uses of geosynthetic material.
- f) Name the two termite proofing materials and their two uses.

6. Attempt any FOUR of the following: 16

- a) Enlist constituent of plaster of paris and state the two uses of plaster of paris.
 - b) State the constituent of cement mortar and their proportions.
 - c) State any two properties and two uses of paints.
 - d) Enlist the four properties of coir fibre.
 - e) State properties of bagasse and two uses of bagasse construction material.
 - f) Enlist two properties of plastic and polymer.
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