

17209

14115

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) Assume suitable data, if necessary.
(6) Use of Non-programmable Electronic Pocket Calculator is permissible.
(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any TEN of the following :** **20**
- State any two applications of construction management.
 - State different types of materials.
 - What are the sources of silt ?
 - Distinguish between stone and rock.
 - State different forms of bitumen.
 - State any four types of cement.
 - List four types of flooring.
 - What is coir ?

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Marks

- i) State the packing in which waterproofing materials are available.
- j) Give the name of chemical used for anti-termite treatment.
- k) Enumerate two field tests to which bricks are generally subjected.
- l) What is blast furnace slag ?

2. Attempt any FOUR of the following : 16

- a) What are the requirements of construction materials ?
- b) List out the works which are executed by a Civil Engineer.
- c) State various methods employed for quarrying of stone and explain any one in brief.
- d) What is dressing of a stone ? What are its advantages ?
- e) Compare asphalt, bitumen and tar with respect to
 - (i) Setting time
 - (ii) Use
- f) Enlist four defects in timber.

3. Attempt any FOUR of the following : 16

- a) What is silt ? State any two uses of silt.
- b) State the various types of clays with their suitability.
- c) State any four properties of hydraulic lime.
- d) State and give function of any four constituents of a good brick earth.
- e) State different types of tiles with their suitability.
- f) Differentiate between conventional bricks and standard bricks.

4. Attempt any FOUR of the following : 16

- a) Write any four uses of plywoods.
- b) Write any two advantages and disadvantages of glass cladding.
- c) Name the chemical ingredients of cement with their proportions.
- d) What are the advantages of artificial sand ?
- e) What are the different properties of glass ?
- f) Give two advantages and two dis-advantages for pre-cast concrete product.

5. Attempt any FOUR of the following : 16

- a) Write any two properties and uses of carbon fibres.
- b) Write any four uses of asbestos fibres.
- c) What is fibre ? Write any two examples where different types of fibres used.
- d) Give use and properties of any two water proofing materials.
- e) What is damp proofing ? State it's classification.
- f) Give the suitability of different sound insulating materials.

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Marks

6. Attempt any FOUR of the following :

16

- a) Write various types and use of special mortars.
 - b) State four properties of POP.
 - c) State the situations where the lime mortar is used with its proportion.
 - d) Write the meaning of rice husk, straw, fly ash and blast furnace slag.
 - e) What are the uses of construction waste ?
 - f) Write any two uses of –
 - (i) Sawdust
 - (ii) Polymers.
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