

17209

11920

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) 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) List various finishing materials in construction.	2
(b) State any two application of Environmental Engineering.	2
(c) Define dressing of stone. State it's any two types.	2
(d) List any four types of stones used as building stones.	2
(e) Give any four test on lime which are recommended as per the I.S 1964 code.	2
(f) Enlist any four brand name of cement.	2
(g) Enlist the two disadvantages of Glass cladding.	2
(h) Enlist four types of fibres used as construction material.	2
(i) Enlist different thermal insulating materials.	2

- (j) State any two needs of termite proofing material. 2
- (k) State any four uses of tiles. 2
- (l) Define construction waste. 2
- 2. Attempt any FOUR of the following : 16**
- (a) Give any two uses of following material :
- (i) Natural
 - (ii) Special
 - (iii) Finishing
 - (iv) Recycled 4
- (b) State any four application of Transportation Engineering. 4
- (c) State various characteristics of stone. 4
- (d) Draw and label neat sketch of structure of timber. 4
- (e) Explain in brief field slaking of lime. 4
- (f) Enlist various defects in timber. 4
- 3. Attempt any FOUR of the following : 16**
- (a) Define soil and state the suitability of sand, silt and clay in construction work. 4
- (b) Describe in brief particle size classification of soils. 4
- (c) Define bitumen and state any three uses of bitumen. 4

- (d) State various types of standard tests to be carried out on tiles. 4
- (e) State any four characteristics of good brick. 4
- (f) Explain the dry process of manufacturing of ordinary Portland cement. 4
- 4. Attempt any FOUR of the following : 16**
- (a) State any two properties and two uses of Veneers. 4
- (b) Give any two uses for following Glass :
- (i) Boro-silicate glass
- (ii) Soda-lime glass 4
- (c) State any four properties of artificial sand. 4
- (d) State various uses of Paver Blocks. 4
- (e) State various properties of glass. 4
- (f) Enlist various field tests conducted on cement. 4
- 5. Attempt any FOUR of the following : 16**
- (a) State any two properties and two uses of Asbestos Fibre. 4
- (b) State any four uses of Geosynthetic material. 4
- (c) Enlist uses and properties of ceramic materials. 4
- (d) State the suitability of different sound insulating materials. 4
- (e) Explain the method by which water proofing of existing old slab can be done. 4
- (f) Define Damp Proofing. Give any three properties of it. 4

- 6. Attempt any FOUR of the following : 16**
- (a) Define Cement Mortar. State any two situations where it is used. 4
 - (b) State various objective of Painting. 4
 - (c) State names of different cladding material. 4
 - (d) Enlist any two uses of each.
 - (i) Rice husk
 - (ii) Coir Fibres 4
 - (e) State two properties and two uses of Areca nut tree trunks. 4
 - (f) State any two properties and two uses of fly ash. 4
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