



17209

11718

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 :	20
1) Give any 2 applications of Irrigation Engineering.	2
2) State different types of materials.	2
3) Explain dressing of stone in short.	2
4) Define lime with chemical reaction.	2
5) What are the sources of silt ?	2
6) State the classification of burnt clay bricks.	2
7) Name the chemical ingredients of cement.	2
8) State the two properties of artificial sand.	2
9) Enumerate different types of heat insulating materials (any four).	2
10) Define fibre.	2
11) Write down the uses of adhesive.	2
12) State different types of construction waste.	2
2. Attempt any four :	16
1) Explain role of Environmental Engineering in Civil Engg.	4
2) State the requirement of Ideal Construction Materials.	4
3) Draw a neat sketch of following defects in Timber.	4
a) Heart Shake	b) Ring Shake
c) Cup	d) Bow.

P.T.O.



	Marks
4) Write classification of Asphalt.	4
5) Give applications of soil as a construction material.	4
6) State the various methods of quarrying, explain in short.	4
3. Attempt any four :	16
1) State the advantages of seasoning of Timber.	4
2) Explain Field Slaking of lime.	4
3) Explain various forms of bitumen.	4
4) State the field test carried out on brick.	4
5) List out the properties of glass.	4
6) State the properties of solid concrete blocks.	4
4. Attempt any four :	16
1) Explain various methods of moulding of bricks.	4
2) Write two properties of particle board and veneers.	4
3) Draw the flow diagram of manufacturing process of cement.	4
4) Explain different types of tiles with their suitability.	4
5) What are the uses of plywood ?	4
6) State the requirement of cement as a construction material.	4
5. Attempt any four :	16
1) Enlist any four types of fibres with their application.	4
2) What are the uses of epoxy ?	4
3) Explain the types of termites.	4
4) What are the causes of dampness in building ?	4
5) Give the suitability of different sound insulating materials.	4
6) What are the uses of ceramic materials ?	4
6. Attempt any four :	16
1) Explain the constituent of paint in short.	4
2) Give two properties and two uses of 'Acoustic Plaster'.	4
3) List the four properties of 'POP' in building construction.	4
4) State uses of bagasse in construction.	4
5) What are the objectives of using Fly-ash in cement or concrete.	4
6) State the uses of polymers.	4