

22204

23242

3 Hours / 70 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.

Marks

1. Attempt any FIVE of the following :

10

- (a) State the role of civil engineering in human life.
- (b) Define Environmental Engineering.
- (c) State different forms of bitumen.
- (d) Give any two properties of plywood.
- (e) What do you mean by Hydration of cement ?
- (f) Name any four finishing materials used in building construction.
- (g) Define straw and give its one use in building construction.

2. Attempt any THREE of the following :

12

- (a) State and explain in brief classification of construction materials.
- (b) Describe the scope of construction material in environmental engineering.
- (c) State the requirements of a good building stone.
- (d) State the applications of soil as a construction material.



- 3. Attempt any THREE of the following : 12**
- (a) What is wall cladding ? Describe the process of wall cladding.
 - (b) Give two advantages and two disadvantages for pre-cast concrete product.
 - (c) Enlist any four field tests conducted on cement.
 - (d) State two properties and two uses of Epoxy.
- 4. Attempt any THREE of the following : 12**
- (a) What are the various defects in timber ?
 - (b) State different types of tiles with their suitability.
 - (c) State various thermal insulating materials. State any two properties of insulating materials.
 - (d) What is fibre ? Write any two examples where different types of fibres are used.
 - (e) Define mortar. State any two properties of good mortar.
- 5. Attempt any THREE of the following : 12**
- (a) Define asphalt and state any three properties of asphalt.
 - (b) Enlist various tests conducted on bitumen and explain any one of them.
 - (c) What are the characteristics of good brick earth ?
 - (d) State two merits and demerits of glass cladding.
 - (e) State any two properties and any two uses of fly ash.
- 6. Attempt any THREE of the following : 12**
- (a) Explain stepwise procedure of fixing Linoleum to floor.
 - (b) State constituents and any two properties of POP.
 - (c) Define sawdust and give its three properties.
 - (d) Enlist the four properties of coir fibre.
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