



Printed Pages : 2

AR-602

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 8549

Roll No.

B. Arch.

**(SEM. VI) EXAMINATION, 2006-07
CONSTRUCTION & MATERIAL - VI**

Time : 3 Hours]

[Total Marks : 50

- Note :**
- (1) *Attempt all questions.*
 - (2) *Use only 2 cartridge sheet for drawing.*
 - (3) *In case of numerical problems assume suitable data wherever not provided.*
 - (4) *Use appropriate scales.*
 - (5) *Be precise in your answer.*

1. Write short notes on any **two** of the following : **10**
 - (a) Uses of any three non-ferrous metals
 - (b) Ceramics in construction field
 - (c) Thermosetting plastics
 - (d) Thermoplastics.

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[Contd...

2. Differentiate between the following : 10
(Attempt any **two**)
- (a) Collapsible shutter and rolling shutter
 - (b) Shuttering and scaffolding
 - (c) Combined footing and eccentric footing
 - (d) One way slab and two way RCC slab
3. Draw neat sketches on proper scale of any **two** : 10
- (a) Timber form work for an octagonal column
 - (b) Centering of semi-circular arch with a span of 1200 mm.
 - (c) A typical section of raft foundation.
 - (d) Foundation of an isolated column.
4. A five storeyed RCC framed building has to 20
be constructed on an old tank bed with loose soil over 12 m deep and water logged up to 1.2 m from ground level. What type of foundation would you adopt? Explain in detail the process of constructing out such a foundation on suitable scale.
- OR**
- 4 What is the purpose of providing expansion joint in the buildings? Explain it in detail. Also give the details of expansion joint on suitable scale at the following levels :
- (a) Foundation level
 - (b) Column level
 - (c) Slab level