



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.

V-8549]

1

[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