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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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 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