

**BARCH**  
**(SEM VI) THEORY EXAMINATION 2018-19**  
**CONSTRUCTION & MATERIAL-VI**

*Time: 3 Hours**Total Marks:50***Notes:**

- Read instructions carefully, attempt accordingly.
- All sections are compulsory.
- Stationary Supplied: 2 Cartridge sheets only.
- Be precise in your answers.
- Assume any missing data.
- Properly label the drawing

**SECTION – A****1. Write short notes on:****(10 X 1= 10)**

- a. Laying of foundation
- b. Isolated foundation
- c. Shoring
- d. Hydraulic hammer
- e. Underpinning
- f. Nylon
- g. Trenching
- h. Silicon resins
- i. Compactor
- j. Polyethylene

**SECTION – B****2. Attempt any five questions. All questions carry equal marks****(5X 5=25)**

- a. How pumps are used for RMC?
- b. Explain thermosetting plastic.
- c. Explain with the help of sketches Combined footing.
- d. Explain function of dumper with the help of neat sketches.
- e. Explain, with the help of sketches, various types of pile foundation?
- f. Enumerate five advantages of PVC pipes over GI pipes
- g. Explain the term Cellular raft with the help of neat sketches.
- h. Draw folded plate RCC Staircase with the help of sketches.

**SECTION – C****3. Attempt any one question in your answer booklet.****(1X 15= 15)**

- a. Draw the construction detail of a Grillage foundation? Explain with the help of sketches?
- b. Classify various types of piles based in
  - (i) Function
  - (ii) Material
- c. Draw Construction detail of a flat slab with grid size of 9.0m X 9.0m?