B.TECH SEM - III (2007 COURSE) (CIVIL ENGG.) : WINTER - 2017

SUBJECT : BUILDING CONSTRUCTION PRACTICES

Day : **Friday** Time : **10.00 AM TO 01.00 PM**
Date : **12/01/2018** **W-2017-2357** Max. Marks : 80

N.B.:

1) **Q.No.1** and **Q.No.5** are **COMPULSORY**. Out of the remaining questions attempt **ANY TWO** questions from each section.
2) Answers to both the sections should be written in **SEPARATE** answer books.
3) Draw neat and labeled diagrams **WHEREVER** necessary.
4) Figures to the right indicate **FULL** marks.
5) Assume suitable data if necessary.

SECTION – I

Q.1 a) Enumerate different types of foundations. Explain any one. **[05]**

b) State advantages and disadvantages of cavity walls. **[05]**

c) Discuss segmental and semicircular arch with neat sketch. **[04]**

Q.2 a) What are different components of a building? **[07]**

b) Explain Raft foundation with neat sketch. **[06]**

Q.3 a) Explain Random Rubble Masonry. **[07]**

b) Discuss English bond with neat sketch. **[06]**

Q.4 a) Explain R.C.C. lintel with chajja with neat sketch. **[07]**

b) Discuss timber flooring with neat sketch. **[06]**

SECTION – II

Q.5 a) Compare merits and demerits of flat and pitched roof. **[05]**

b) Draw a neat sketch of a timber door with shutter, label various parts and draw the detail of various joints. **[05]**

c) Describe various types of points. **[04]**

Q.6 a) Discuss advantages of steel truss over timber truss. **[07]**

b) Draw Queen Post roof truss and label all the components. **[06]**

Q.7 a) Design a log-legged staircase for a bunglow. Floor to floor height is 3.2 cm. **[07]**

b) Compare wooden and steel doors. **[06]**

Q.8 a) State the application of following plaster: **[06]**

- **i)** Acoustic plaster
- **ii)** Smooth cast finish
- **iii)** Sanfave plaster
- **iv)** Barium plaster
- **v)** Textured finish
- **vi)** Sirapite plaster

b) State different defects in painting. **[07]**

* * * *