

Total No. of Printed Pages:2

SUBJECT CODE NO: E-36
FACULTY OF ENGINEERING AND TECHNOLOGY
S.E.(Civil) Examination Nov/Dec 2017
Building Construction & Drawing
(OLD)

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
- i. Q.No.1 & Q.No.6 are compulsory.
 - ii. Solve any two questions from Q.No.2 to 5 and any one from Q.No.7 to 8.
 - iii. Figures to right indicate the maximum marks.

Section- A

- Q.1 Attempt **any five** questions. 10
- a) What are the functional requirements of roofs?
 - b) Give the standard sizes of W.C., toilet, kitchen cum store and kitchen cum dining.
 - c) Define building line and control line.
 - d) What are the purposes served by underpinning?
 - e) Enlist the requirement of good foundation.
 - f) Classify the requirement sound absorbents.
 - g) What are the ill effects of noise?
- Q.2 08
- a) Define partition wall. State its applications and explain any two types of partition walls.
 - b) What are the bylaws to be followed for height of building explain with neat sketch. 07
- Q.3 08
- a) Enlist the principles of building planning and explain any two in detail.
 - b) Explain with neat sketch pit method of underpinning. 07
- Q.4 07
- a) Explain how damp proofing is carried out with the help of suitable sketches.
 - b) Define waterproofing. Enlist its methods. Explain any one in detail with neat sketch. 08
- Q.5 Write a short note on: (**any three**) 15
- a) Load bearing structure
 - b) Energy efficient building
 - c) Under-reamed pile foundation in black cotton soil
 - d) Setting out of foundation
 - e) Anti-termite treatment

Section- B

- Q.6 Draw to the scale of 1:50 a working plan of residential bungalow, section through staircase front elevation for the data given below: 25
- i) Plot size = 14m × 18m
 - ii) Both side margins = 1.25m
 - iii) Front margin = 3.0m
 - iv) Rear margin = 2.0m
 - v) Plinth height = 0.45m
 - vi) FSI allowed = 0.80
 - vii) Required components: Ent. Verandah, Living Room, Bedroom = 1 No, master bed = 1 No, separate W.C, bath, kitchen room, dining room, store room & stair case doglegged. Also show schedule of opening and area statement (block plan calculations)
- Q.7 a) Write down the basic requirement of lifts and escalators with their suitability. 07
b) Write a detailed note on raking shore. 08
- Q.8 a) Write down the basic requirements of weather sheds and roofs. 07
b) Write a note on repairs and retrofitting in RCC framed structure. 08