

SUBJECT CODE NO:- P-243
FACULTY OF ENGINEERING AND TECHNOLOGY
S.E.(Civil) Examination May/June 2017
Building Construction & Drawing
(Revised)

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
- i) Q. No.1 and Q. No.6 are compulsory.
 - ii) Solve any two questions from remaining in section A and one question from remaining in section B.
 - iii) Use separate drawing sheet for solving Q.No.6 of section B.

Section A

- Q.1 Attempt any five of the following:- 10
- a) What is pitch of stair?
 - b) Enlist the requirement of good acoustical material.
 - c) When scaffolding is required.
 - d) Enlist different types of stairs.
 - e) What are the advantages of cavity wall?
 - f) Define Aspect.
 - g) What is head room?
- Q.2
- a) What is an energy efficient building? Explain. 08
 - b) What is the importance of principles of planning? Explain roominess and grouping. 07
- Q.3
- a) Discuss the points to be observed during planning 7 construction of building in connection with the fire proof construction. 08
 - b) Explain how damp proofing is carried out with the help of suitable sketches. 07
- Q.4
- a) Explain how the building bylaws affect planning of residential bungalows. 08
 - b) What are the different causes of failure of foundation? Explain any two in detail. 07
- Q.5
- a) Write at length on anti-termite treatment. 08
 - b) Write a detailed note on pit method of under pinning. 07

Section B

- Q.6 Draw plan of residential bungalow for a family. 06
- a) Size of plot 12m× 18m.
 - b) Scale 1:50
 - c) Plinth height 0.75m
 - d) Requirements: Ent., Verandah, Living Hall, bedroom, master bedroom, separate w.c. bath, Kitchen room, dining room, store room & stair case (dog legged).
 - e) Draw:-
 - i. Working drawing plan 06
 - ii. Elevation 06

- iii. Section through w.c. or bath and stair case 06
- iv. Schedule of opening 03
- v. Construction notes 04

- Q.7
- a) Write a detail note on shoring. 08
 - b) Discuss the different types of stairs and their suitability. 07

- Q.8
- a) Write brief note on wall cladding materials used to practice. 08
 - b) Discuss how safety in construction of site can be achieved. 07