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SUBJECT CODE NO:- H-131
FACULTY OF SCIENCE AND TECHNOLOGY
S.E. (Civil)
Building Construction & Drawing
(REVISED)

[Time: Three Hours]

[Max. Marks: 80]

N.B Please check whether you have got the right question paper.
 1) Q. No. 1 and Q. No. 6 is compulsory.
 2) Solve any two questions from remaining of Section A & B.

Section A

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|-----|---|----|
| Q.1 | Attempt any five of the following:- | 10 |
| | 1) What is the necessity of providing foundation to structure?
2) Enlist different types of foundation.
3) Explain building line.
4) Define control line.
5) Define built up area.
6) Define deep foundation.
7) Define Underpinning. | |
| Q.2 | a) What are the different types of building explain any two in detail. | 08 |
| | b) Classify building as per national building code and explain any two in detail. | 07 |
| Q.3 | a) What are the different planning principal, explain any two in detail. | 08 |
| | b) Write in detailed about partition wall. | 07 |
| Q.4 | a) Write a detailed note on underpinning with neat sketches. | 08 |
| | b) Explain in detail about pile foundation. | 07 |
| Q.5 | a) What do you understand by setting out of foundation? Explain with neat sketch. | 07 |
| | b) Enlist the causes of failure of foundation. Explain any two in detail. | 08 |

Section B

- Q.6 Attempt any five of the following:- 10
- 1) Define termite proofing.
 - 2) Define damp proofing.
 - 3) Define sound proof construction.
 - 4) Explain types of Joints in construction.
 - 5) What is pitch?
 - 6) What is rise and tread?
 - 7) What are different types of windows?
- Q.7 a) Explain in detail about termite proofing. 08
- b) Explain in length cavity walls & its features. 07
- Q.8 a) Explain in detail about shoring. 05
- b) Plan a doglegged stair of building having height 3.6m and stair measures.[2.5M×5M] 10
- Q.9 Draw a working plan of building for scale 1:50 draw section through stairs and elevation for given data. 15
- 1) Plot area 10m×15m
 - 2) Side Margin 1m each
 - 3) Front Margin 2.5m
 - 4) Back Margin 1.5m
 - 5) FSI = 0.75
- Requirement: - Drawing Hall, Bedroom, Master Bedroom, Separate WC & Bath, Kitchen cum Dining room, Doglegged stairs also show Schedule of Opening and Construction Notes.
- Q.10 a) Discuss wall cladding its material and methods. 08
- b) Explain Scaffolding its type and suitability. 07