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

[Time: Three Hours]

[Max. Marks: 80]

Please check whether you have got the right question paper.

N.B

- 1) Q. No. 1 and Q. No. 6 is compulsory.
- 2) Solve any two questions from remaining of Section A & B.

Section A

- Q.1 Attempt any five of the following:- 10
- 1) Define building
 - 2) Explain sub structure
 - 3) Explain building line.
 - 4) Define control line
 - 5) Define built up area
 - 6) Define shallow foundation
 - 7) Define Underpinning
- Q.2 a) Classify building as per national building code and explain any two in detail. 08
- b) Differentiate between load bearing structure and frame structure. 07
- Q.3 a) List out principles of planning and explain any two in detail. 08
- b) Write a detailed note on energy efficient building. 07
- Q.4 a) Write detailed note on foundation in black cotton soil. 08
- b) Explain in length raft foundation. 07
- Q.5 a) Enlist the causes of failure of foundation. Explain any two in detail. 07
- b) Write a detailed note on underpinning with neat sketches. 08

Section B

- Q.6 Attempt any five of the following: 10
- 1) Define waterproofing.
 - 2) Define reverberation
 - 3) Define sound proof construction.
 - 4) Explain types of Joints in construction.
 - 5) What is waist slab?
 - 6) What is the purpose of landing?
 - 7) What are different types of stairs?
- Q.7 a) Explain various method of damp proofing with the help of neat sketch. 08
- b) Explain in length cavity walls & its features. 07
- Q.8 a) Explain the conditions for good acoustics of a hall. 05
- b) Plan a doglegged stair of building having height 3.6m and stair measures [2.5M×5M]. 10
- Q.9 Draw a plan of residential bungalow for a family in new Aurangabad. 15
- i) Plot size 12m× 18m
 - ii) Scale 1:50
 - iii) Plinth Height 0.8m.

Requirement :- Verandah, Hall, Bedroom, Master Bedroom, WC & Bath, Kitchen, Dining room, store, stairs.

Draw:-

- 1) Working drawing plan
- 2) Elevation
- 3) Section through Staircase
- 4) Schedule of Opening
- 5) Construction Notes.

- Q.10 a) Explain in length on shoring. 08
- b) Write a detailed note on importance of safety in construction. 07