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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR****(AUTONOMOUS)****B.Tech II Year I Semester Regular Examinations May-2022****BUILDING TECHNOLOGY****(Civil Engineering)**

Time: 3 hours

Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)**UNIT-I**

- 1 What are the causes of failure of foundations? What measures are to be taken to prevent such failure? **L1 12M**

**OR**

- 2 a What are the defects in brick masonry? **L1 6M**  
 b What are points to be observed while supervising the brick work? **L1 6M**

**UNIT-II**

- 3 Explain briefly about the method of pointing and its types. **L2 12M**

**OR**

- 4 Define Lintel and Classify various types of lintels and discuss. **L1 12M**

**UNIT-III**

- 5 a State briefly the requirements of good stair case. **L2 6M**  
 b Classify types of stairs and Explain **L2 6M**  
 i) Quarter Turn Staircase ii) Half turn staircase

**OR**

- 6 List out types of windows and explain any four with neat sketches. **L2 12M**

**UNIT-IV**

- 7 Explain why ventilation is required. Describe briefly the factors affecting Ventilation. **L3 12M**

**OR**

- 8 Summarize the Natural and Mechanical ventilation with neat sketches. **L2 12M**

**UNIT-V**

- 9 Explain briefly Acoustic, Vibration and Inertia detectors. **L2 12M**

**OR**

- 10 a What are infra-red detectors and discuss the working principle. **L2 6M**  
 b Write brief note on lighting protection systems. **L2 6M**

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