



**SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR**

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**QUESTION BANK (DESCRIPTIVE)**

**Subject with Code :INTRODUCTION TO CIVIL ENGINEERING(18CE0102)**

**Branch: CIVIL**

**Year &Sem: II-B.Tech & I-Sem**

**Regulation: R18**

**UNIT –I**

**INTRODUCTION TO CIVIL ENGINEERING**  
**BROAD DISCIPLINES OF CIVIL ENGINEERING**

1. (a) Write about civil engineering . (2M)
  - (b) What is a green building? (2M)
  - (c) Define engineering. (2M)
  - (d) Explain the importance of GIS . (2M)
  - (e) Give details about remote sensing. (2M)
1. Explain how the world is transforming from early constructions and development overtime. (10M)
  2. Explain about the History of civil engineering. (10M)
  3. What is the role of civil engineering in the development of a nation? (10M)
  4. Explain about structural engineering & Geotechnical engineering. (10M)
  5. What is the role of structural engineering and geo technical engineering in the stream of construction? (10M)
  6. Explain in details about the nation's infrastructure development based on traffic and transportation engineering. (10M)
  7. What is the engineering application in hydrology and water resource? (10M)
  8. What are different disciplines in civil engineering? Explain any two disciplines. (10M)
  9. Explain briefly about the civil engineering. Explain about Photogrammetry & Remote sensing and GIS. (10M)

**UNIT-II**  
**FOUNDATION**  
**MASONRY**

1. a) What is frog? (2M)  
b) Define foundations and mention their objects. (2M)  
c) What are the functions of Foundation? (2M)  
d) Explain about stretcher and Header. (2M)  
e) What is raft foundation? (2M)
  
1. Explain various types of foundations with the help of neat sketches. [10M]
2. Explain about foundation failures and the remedial measures for foundation failures. [10M]
3. Differentiate between the following: (a) Floating foundation and raft foundation.  
(b) Combined footing and strap footing. [10M]
4. What are different types of foundations for black cotton soils? [10M]
5. Compare English bond, Flemish bond and double Flemish bond. [10M]
6. What is significance of bonding in brick work? [10M]
7. Differentiate between English bond and Flemish bond with sketches. [10M]
8. Differentiate between brick masonry and stone masonry. [10M]
9. Draw the elevation and Plan for Two brick Wall of English bond. [10M]
10. Draw the elevation and Plan for Two brick Wall of Flemish bond. [10M]

**UNIT-III**  
**FLOORS**  
**ROOFS**  
**DOORS AND WINDOWS**

1. (a) What are the different types of floors? (2M)
- (b) What is meant by damp proof course? (2M)
- (c) Compare the merits and demerits of flat and pitched roof. (2M)
- (d) Write the comparison of flat roofs Vs sloped roofs. (2M)
- (e) Define Rebate, top rail, bottom rail and head in a door. (2M)
2. What are the important considerations should be taken for placing of door? (10M)
3. What are different types of doors? Explain the importance of framed and panelled doors. (10M)
4. What is a window? What are the different considerations taken for the selection of window?  
Explain the types of windows. (10M)
5. Mention the types of roofs. Explain with neat sketch King post and Queen post roofs. (10M)
6. Explain pitched roof, flat roof and lean to roof with neat sketches. (10M)
7. With the help of a neat sketch, explain the construction details of lean- to roof. (10M)
8. What are different components of a floor? (10M)
9. What are different materials using for the placing of floor? (10M)
10. What are the different factors to be considered for the selection of flooring material? (10M)

**LINTELS & ARCHES****PLASTERING AND POINTING****STAIRS**

1. a. What is a lintel? (2M)  
b. What is an arch? (2M)  
c. What are requirements of a good stair? (2M)  
d. What is stair? (2M)  
e. Explain the merits of plastering? (2M)
2. What do you understand about the lintels and explain them clearly with the help of neat sketches? (10M)
3. What is pointing? How is it carried out? What are its different types? (10M)
4. What do you understand about the arches and explain them clearly with the help of neat sketches? (10M)
5. Mention the objects of providing pointing and plastering to exposed surfaces (10M)
6. What are the different classifications of arches? (10M)
7. What are the types of staircases? Draw the sketch and explain the components of a stair. (10M)
8. What is a stair? What are the requirements of good stair? (10M)
9. What is plastering? What are the defects in plastering and their remedies? (10M)
10. Explain different thumb rules for placing of stair case. (10M)

## UNIT-5

## PLANNING OF BUILDINGS

## BUILDING BYELAWS AND REGULATIONS

1.
  - a).What is the difference between residential building and commercial building? (2M)
  - b). Explain about FSI and FAR. (2M)
  - c).What is the requirements of lighting and ventilation? (2M)
  - d). Write any four applications of building byelaws. (2M)
  - e).What are the requirements of lighting and ventilation for different rooms? (2M)
2. Explain the importance of building bye laws? b) What is meant by aspect, prospect, circulation and grouping? Explain its importance? (10M)
3. How height of building is evaluated? Explain the factor associated with this? b) What is meant by flexibility, circulation and sanitation? Explain its importance? (10M)
4. What is meant by FSI? State the importance of this factor? b) List out different principles in planning a building? Explain any four factors in detail? (10M)
5. What are different lighting and ventilation requirements in a building based on building bye laws? b) Explain in detail two terms FAR and FSI? (10M)
6. What are the classifications according to building bye-laws. and explain? b) Explain the objectives of building byelaws. (10M)
7. Briefly explain the following: (a) Roominess (b) Circulation (c) Flexibility (d) Grouping
8. What are the objectives of building bylaws b) Write briefly about Open Space Requirements of buildings (10M)
9. Explain clearly different principles involved in planning a residential building? (10M)
10. Explain different factors considered while selecting a site for residential houses? b) State the significance of bye-laws in planning residential houses? (10M)
11. Explain the role of roominess and grouping in planning a residential building? Give some examples. (10M)