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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech II Year I Semester Regular Examinations Nov/Dec 2019

INTRODUCTION TO CIVIL ENGINEERING

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

PART-A

(Answer all the Questions 5 x 2 = 10 Marks)

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|---|---|--|----|
| 1 | a | Explain the importance of GIS. | 2M |
| | b | Explain about stretcher and Header. | 2M |
| | c | Write the comparison of flat roofs Vs. Sloped roofs. | 2M |
| | d | Explain the merits of plastering. | 2M |
| | e | Explain about FSI and FAR | 2M |

PART-B

(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

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|---|---|---|----|
| 2 | a | Explain about the History of civil engineering. | 5M |
| | b | What is the role of civil engineering in the development of a nation? | 5M |

OR

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| 3 | a | What is the engineering application in hydrology? | 5M |
| | b | What are different disciplines in civil engineering? Explain any two disciplines. | 5M |

UNIT-II

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| 4 | Explain various types of foundations with the help of neat sketches. | 10M |
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OR

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| 5 | a | Differentiate between brick masonry and stone masonry. | 5M |
| | b | Draw the elevation and Plan for Two brick Wall of Flemish bond. | 5M |

UNIT-III

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|---|---|--|----|
| 6 | a | What are the important considerations should be taken for placing of door? | 5M |
| | b | What is a window? What are the different considerations taken for the selection of window? | 5M |

OR

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|---|---|---|----|
| 7 | a | What are the different factors to be considered for the selection of flooring material? | 6M |
| | b | What are different components of a floor? | 4M |

UNIT-IV

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|---|---|---|----|
| 8 | a | What is pointing? How is it carried out? What are its different types? | 5M |
| | b | What do you understand about the lintels and explain them clearly with the help of neat sketches? | 5M |

OR

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|---|---|--|----|
| 9 | a | Explain different thumb rules for placing of staircase. | 5M |
| | b | What is plastering? What are the defects in plastering and their remedies? | 5M |

UNIT-V

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| 10 | a | Explain the importance of building byelaws. | 6M |
| | b | Briefly explain the following: (i) Roominess (ii) Circulation | 4M |

OR

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|----|---|---|----|
| 11 | a | Explain clearly different principles involved in planning a residential building. | 5M |
| | b | Explain different factors considered while selecting a site for residential houses. | 5M |

END