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

B.Tech II Year I Semester Supplementary Examinations November-2020

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 What is a green building? | 2M |
| | b What is raft foundation? | 2M |
| | c Define Rebate and top rail. | 2M |
| | d What is an arch? | 2M |
| | e Write any four applications of building byelaws. | 2M |

PART-B

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

UNIT-I

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|----------|---|-----------|
| 2 | a Explain how the world is transforming from early constructions and development overtime. | 5M |
| | b What is the role of civil engineering in the development of a nation? | 5M |

OR

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|----------|---|------------|
| 3 | What is the role of structural engineering and geo technical engineering in the stream of construction? | 10M |
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UNIT-II

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| 4 | a What are different types of foundations for black cotton soils? | 5M |
| | b Explain about the remedial measures for foundation failures. | 5M |

OR

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| 5 | Draw the elevation and Plan for Two brick Wall of English bond. | 10M |
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UNIT-III

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| 6 | a What are the different considerations taken for the selection of window? | 5M |
| | b Mention the types of roofs. Explain with neat sketch King post roof. | 5M |

OR

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| 7 | a What are different components of a floor? | 6M |
| | b Explain pitched roof, flat roof and lean to roof. | 4M |

UNIT-IV

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|----------|--|-----------|
| 8 | a What is a stair? What are the requirements of good stair? | 6M |
| | b Explain different thumb rules for placing of staircase. | 4M |

OR

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| 9 | a What do you understand about the lintels and explain them. | 5M |
| | b What is pointing? What are its different types? | 5M |

UNIT-V

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| 10 | a What is meant by FSI? Explain any four factors in detail. | 5M |
| | b Explain the objectives of building byelaws. | 5M |

OR

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

END