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

B.Tech II Year I Semester Supplementary Examinations August-2021

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 | Mention the situations where raft foundation is recommended. | 2M |
| | c | What are different types of flooring? | 2M |
| | d | Define plastering and pointing. | 2M |
| | e | What do you understand by orientation of building? | 2M |

PART-B

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

UNIT-I

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|---|---|-----|
| 2 | Explain the various engineering applications in the field of hydrology and water resources. | 10M |
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OR

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|---|---|---|----|
| 3 | a | What do you understand by Green building? And explain its importance. | 3M |
| | b | Explain in details about the nation's infrastructure development based on traffic and transportation engineering. | 7M |

UNIT-II

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|---|---|---|----|
| 4 | a | Explain the various functions of foundation. | 5M |
| | b | What are the requirements of a good foundation? | 5M |

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| 5 | Explain the English and Flemish bonds in brick masonry with help of sketches. | 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 | Explain the different types of windows. | 5M |

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| 7 | Explain pitched roof, flat roof and lean to roof with neat sketches. | 10M |
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UNIT-IV

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|---|---|---|----|
| 8 | a | What are requirements of a good stair? | 3M |
| | b | Mention the objects of providing pointing and plastering to exposed surfaces. | 7M |

OR

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|---|---|---|----|
| 9 | a | Mention the objects of providing pointing and plastering to exposed surfaces. | 7M |
| | b | What are different classification of lintels. | 3M |

UNIT-V

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|----|---|---|----|
| 10 | a | Explain different factors considered while selecting a site for residential houses. | 6M |
| | b | How height of building is evaluated? Explain the factors associated with this. | 4M |

OR

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|----|---|-----|
| 11 | Explain different factors considered while selecting a site for residential houses. | 10M |
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END