

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to JNTUA, Ananthapuramu)

I B.Tech I Semester (SVEC-19) Regular Examinations December - 2019**BASIC CIVIL AND MECHANICAL ENGINEERING****[Electrical and Electronics Engineering, Electronics and Communication Engineering,
Electronics and Instrumentation Engineering]**

Time: 3 hours

Max. Marks: 60

**Answer One Question from each Unit
All questions carry equal marks****PART-A****UNIT-I**

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|------|--|----------|----|-----|------------|
| 1. | Classify bricks and state its characteristics and uses of each one of them. | 12 Marks | L1 | CO1 | PO1
PO8 |
| (OR) | | | | | |
| 2. | a) The following are the observed fore bearing of a traverse sides: AB, 70° 30'; BC, 140° 15'; CD, 260° 15'; and DE, 335° 30'. Find their back bearings. | 6 Marks | L4 | CO1 | PO1
PO2 |
| | b) Classify the surveying based upon the objective of survey. | 6 Marks | L1 | CO1 | PO1
PO2 |

UNIT-II

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|------|---|---------|----|-----|------------|
| 3. | a) What is Dam and what are the points to be considered for selection of site for the Dam? | 6 Marks | L4 | CO2 | PO1
PO2 |
| | b) What are points to be observed in construction stone masonry? | 6 Marks | L4 | CO2 | PO1
PO8 |
| (OR) | | | | | |
| 4. | a) Compare brick masonry and stone masonry. | 6 Marks | L4 | CO2 | PO1
PO8 |
| | b) What do you understand by foundations? Draw sketches to show various types of shallow foundations. | 6 Marks | L4 | CO2 | PO1
PO8 |

PART-B**UNIT-III**

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|------|--|----------|----|-----|-----|
| 5. | Explain the working of a four stroke petrol engine with neat sketches at different stages. | 12 Marks | L2 | CO4 | PO1 |
| (OR) | | | | | |
| 6. | Differentiate the Impulse Turbine and Reaction Turbine with a neat sketch in brief. | 12 Marks | L2 | CO3 | PO1 |

UNIT-IV

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|------|---|----------|----|-----|-----|
| 7. | Derive the expression for length of the cross belt. | 12 Marks | L2 | CO3 | PO1 |
| (OR) | | | | | |
| 8. | Explain various gear trains used for power transmission with neat sketches. | 12 Marks | L1 | CO3 | PO2 |

UNIT-V

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|------|---|----------|----|-----|-----|
| 9. | Explain the process of rolling and welding with applications, advantages and disadvantages. | 12 Marks | L2 | CO4 | PO1 |
| (OR) | | | | | |
| 10. | Explain the parts in lathe with neat sketches. | 12 Marks | L1 | CO4 | PO1 |

