## Vivekananda College of Engineering & Technology, Futtur [A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]

Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

CRM08 Rev 1.11 <FY> <11.05,2024>

## CONTINUOUS INTERNAL EVALUATION - 1

|                  |   | Sub: Introduction to Electronics and Communication | S Code:<br>BESCK204C |
|------------------|---|--|----------------------|
| Date: 16.05.2024 | 1 | Max Marks: 50                                      | Elective: Y          |

Note: Answer any 2 full questions, choosing one full question from each part.

| Q | N | Questions   | Marks | RBT | CO's |
|---|---|---|-------|-----|------|
|   |   | PART A  |       |     |      |
| 1 |   | What is Regulated Power Supply? With neat block diagram explain the working of DC power supply. Also mention the principal components used in each block. |       | L2  | CO1  |
|   |   | What are voltage multipliers? With circuit diagram explain the operation of voltage doubler.  | 8     | L2  | CO1  |
|   |   | What is oscillator? Mention the conditions for oscillations.  Explain the operation of three-stage RC Network oscillator with neat circuit diagram.       |       | L2  | CO1  |
| Г |   | OR  |       |     |      |
| 2 |   | With a neat circuit diagram and waveforms, explain full wave bridge rectifier.  | 8     | L2  | CO1  |
|   |   | Mention the advantages of negative feedback in amplifier circuits.  With relevant equations and diagram, explain the concept of negative feedback.        |       | L2  | CO1  |

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|---|----------------------------|------------------------------|
|   | L2                         | CO1                          |
|   |                            |                              |
| 8 | L2                         | CO3                          |
|   | L2                         | CO1                          |
|   | L3                         | COI                          |
|   |                            |                              |
| 8 | L2                         |                              |
| 8 | L2                         | CO1                          |
|   | L3                         | CO1                          |
|   | 8<br>8<br>8<br>8<br>8<br>8 | 8 L2 8 L2 9 L3 1 9 L3 1 9 L3 |

Prepared by: Dr. Mahesh Prasanna K

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