



# RAN-2603000506049003

## T.Y.B.Sc. (Semester-VI) Examination March - 2026 EL-MN-602 (MINOR ELECTRONICS) (Switching Power Supply)

[ Total Marks: 25 ]

|                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                 |                      |                      |                      |                      |                      |                      |
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| <p><b>સૂચના : / Instructions</b></p> <p>(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.<br/>Fill up strictly the above details on your answer book.</p> | <p>Seat No.:</p> <table border="1"> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> <div style="border: 1px solid black; height: 80px; margin-top: 10px;"></div> <p style="text-align: center;">Student's Signature</p> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| <input type="text"/>                                                                                                                                       | <input type="text"/>                                                                                                                                                                                                                                                                                                                                                            | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |                      |                      |

- Q-1. Answer in short (Any FIVE) 05**
- Draw the symbols of DIAC & TRIAC
  - What is chopper?
  - Is DIAC a bidirectional device?
  - Define: Synchronous signal.
  - Give the applications of SMPS.
  - Draw the characteristic curve of TRIAC.
- Q-2. Explain the type A Chopper with the help of its schematic. 10**
- OR**
- Q-2. Write in detail about Series, parallel and bridge type inverter. 10**
- Q-3. Write short notes on: (Any ONE) 10**
- SG 3524.
  - Fly back converters.