



## DMM-3063

### Second Year B. Sc. (Sem. IV) Examination

March / April - 2016

### Electronics : Paper - V

(Switching Power Supply)

Time : Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दशांशिक निशानोंवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="SECOND YEAR B. SC. (SEM. 4)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="ELECTRONICS : PAPER - V"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="0"/> <input type="text" value="6"/> <input type="text" value="3"/>	Section No. (1, 2,.....): <input type="text" value="Nil"/>
Student's Signature	

- (2) Q. 1 is compulsory.
- (3) Figures at extreme right indicate full marks.
- (4) Draw figures/diagrams to support your answer.
- (5) Assume data, if required.

- |   |   |   |
|---|---|---|
| 1 | Write very short answers :  | 8 |
|   | (A) Define SCR.   |   |
|   | (B) What is an inverter?  |   |
|   | (C) Enlist the applications of UPS.                                 |   |
|   | (D) Explain signal to noise ratio.                                  |   |
| 2 | (A) Explain the construction, working and characteristics of SCR.   | 7 |
|   | (B) Explain the construction, working and characteristics of TRIAC. | 7 |

OR

- |   |   |   |
|---|---|---|
| 2 | (A) Differentiate between SMPS and Linear Power Supply. | 7 |
|   | (B) Give the summary of regulatory action in SMPS.      | 7 |

- 3 (A) Explain the construction and working of type C Chopper. 7
- (B) Discuss the continuous duty UPS with the help of its block diagram 7

**OR**

- 3 (A) Classify inverters and explain McMurray inverter in detail 7
- (B) What is forward type converter? How is the selection of transformer made for this type of converter? 7

- 4 Write Short notes: (ANY TWO) 14
- (A) Two transistor analogy in SCR
- (B) IC SG 3524 block diagram
- (C) McMurray Bedford inverter
- (D) Battery Chargers.

---