



JB-3163

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

April/May – 2013

Electronics : Paper - V

(Switching Power Supply)

Time : Hours]

[Total Marks :

Instruction :

नीचे दृष्टावेव निशानीवाणी विगतो उत्तरवही पर अवश्य लपनी. Fillup strictly the details of signs on your answer book.		Seat No. :	
Name of the Examination :		<input type="text"/>	
S. Y. B. SC. (SEM. 4)		<input type="text"/>	
Name of the Subject :		<input type="text"/>	
ELECTRONICS : PAPER - 5		<input type="text"/>	
Subject Code No. : <input type="text"/> 3 <input type="text"/> 1 <input type="text"/> 6 <input type="text"/> 3		Section No. (1, 2,.....) : <input type="text"/> Nil	
		Student's Signature	

- 1 (a) What are the uses of inverter. 8
- (b) What is the use of transfer switch in UPS. 6
- (c) How will you design atriac using SCR. 6
- (d) What are the other names of flyback and forward converter ? 6
- 2 (a) Explain the construction and working of SCR. 8
- (b) Discuss the method by which SCR can be turned off. 6
- OR**
- 2 (a) Discuss the construction and working of a diac. 8
- (b) Explain the ch. of a traic. 6
- 3 (a) Discuss the working of a forward converter. 8
- (b) How will you select transformer for SMPS. 6
- OR**
- 3 (a) Explain the general block diagram of UPS. 8
- (b) Discuss various UPS configurations. 6
- 4 Write short notes : (any two)
- (a) Comparison of SMPS and linear power supply
- (b) Two transistor analogy of SCR
- (c) Battery charger in a UPS
- (d) Block diagram of SG 3524 IC.