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) Fill up strictly the details of signs on your answer book.

(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 :
   (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.
   (B) Explain the construction, working and characteristics of TRIAC.

   OR

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

DMM-3063] 1
[Contd...
3 (A) Explain the construction and working of type C Chopper.  
(B) Discuss the continuous duty UPS with the help of its block diagram

OR

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

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