



RAN-7032

S. Y. B.Sc. Semester - IV Examination

March / April - 2019

Electronics Paper - V (Old Course)

(Switching Power Supply)

[Total Marks: 50

सूचना : / Instructions

(1)

नीचे दृशविले निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

S. Y. B.Sc. Semester - IV

Name of the Subject :

Electronics Paper - V (Old Course)

Subject Code No.: 7 0 3 2

Seat No.:

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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.

Q.1 Write very short answers:

08

- A) Define DIAC
- B) What is a chopper?
- C) Enlist the applications of SMPS
- D) Explain signal to noise ratio.

- Q.2** A) Compare and contrast SMPS and Linear Power Supply. **07**
B) Explain the construction, working and characteristics of DIAC. **07**
OR
- Q.2** A) Explain the construction, working and characteristics of TRIAC. **07**
B) Give the summary of regulatory action in SMPS. **07**
- Q.3** A) Discuss the working of Continuous duty UPS with the help of its block diagram. **10**
B) Explain the phase synchronization in online UPS. **04**
OR
- Q.3** A) Explain the construction and working of type B Chopper. **07**
B) What is forward type converter? How is the selection of transformer made for this type of converter? **07**
- Q.4 Write-Short notes: (ANY TWO)**
- A) Battery Bank
 - B) Type C Chopper
 - C) Two transistor analogy in SCR
 - D) IC SG 3524 block diagram
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