



RAN-0920

S Y B Sc Semester - IV Examination

March / April - 2019

Electronics Paper - V

(Switching Power Supply)

(New Course)

[Total Marks: 50

સૂચના : / Instructions

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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

Subject Code No.:

0

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2

0

Seat No.:

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Student's Signature

Instruction:

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

Q. 1 Write very short answers:

08

- A) Draw the TRIAC characteristics.
- B) What is a rectifier?
- C) Enlist the applications of
- D) State drawbacks of SMPS.

Q. 2

- A) Explain the construction and working of
- B) Explain the construction & working of DIAC.

07

07

OR

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[1]

[P.T.O.]

Q. 2

- A) Explain how limitations of Linear Power Supply are overcome in SMPS **07**
- B) Explain the construction and working of B type chopper. **07**

Q. 3

- A) Differentiate different types of UPS. Explain any one of it in detail. **07**
- B) Explain the importance of phase synchronization in UPS **07**

OR

Q. 3

- A) State the Inverter principle. Explain McMurray inverter in detail. **07**
- B) State the principle of Chopper and differentiate them. **07**

Q. 4

Write Short notes: (ANY TWO)

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- A) McMurray Bedford Inverter
 - B) IC SG 3524 block diagram
 - C) Battery Charger
 - D) Continuous duty UPS
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