

(4)

Unit-III / FkæF-III 7½

6. Write short notes on the following :

- (i) Step up chopper operation
- (ii) Step down chopper operation

elrecve hej mehf#hle veeš elrecKæS :

- (i) meeljece DelejæDekeå keåe GÜÜelVe æUeeueve
- (ii) meeljece DelejæDekeå keåe DeJevceve æUeeueve

7. What is a saturable reactor ? How it can be converted into magnetic amplifier ? Give the circuit of a magnetic amplifier and explain its working.

melehe ej UeKešj keåee nelee nw? Fmes Uegyekeåde æJæDekeå celKeåime yeoue mekeåes nP Skeå Uegyekeåde æJæDekeå keåe fj heLe KeåUelæ Deej Fmekeåer keåUæ&elæDe mecePeefUes

Unit-IV / FkæF-IV 7½

8. Draw circuits for single phase half bridge and full bridge inverter circuit. Compare the performance of both the circuits.

Skeåue keåuee Deæe æelæDeej heCæ&meæegDevleJæeåkeåe heej heLe KeåUelæes oevæll#heej heLeell#keå keåUæ&keåer legveve keåæpeUes

9. Discuss the workign of ac static switch in detail. How devices are protected in power electronics?

AC ænlæj ænlæUeel#keåer keåUæ&elæDe ælæmleej mes mecePeefUes heej Fmeåeæeåe celæfJæeFmeåe keåes keåmes meej æ#ele ekeåUee peelee nP

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(Printed Pages 4)

Roll No. _____

S-615

B.Sc.(Part-II) Examination, 2015

ELECTRONICS

Paper - III

(Industrial & Power Electronics)

Time Allowed : Three Hours] [Maximum Marks : 50

Note : Answer five questions in all. Question No. 1 is compulsory. Attempt one question from each unit.

keåue heåle æl#veell#keåe Gøej oæpeS- æl#ve meå 1 DeæreJæUæ&nw æl#Ueåe FkæF&mes Skeå æl#ve keåæpeS-

1. Write short answer of the following :

elrecve keå mehf#hle Gøej elrecKæS : 2×10=20

(i) What do you understand by controlled rectifier?

el#Ueæf#æle j keåeåeåeUeme&mes Deæhe keåee meceP nP

(ii) Draw V-I characteristic curve of Thyristor.

LeeFæj mšj keåe V-I Deæ#uee#æeCkeåe Jæåe KeåUelæes

