

[Total No. of Printed Pages:1]

CODE NO:- Z-8231

FACULTY OF ENGINEERING & TECHNOLOGY

M.E(EPS)Year Examination June– 2015

Flexible AC Transmission.

(Revised)

[Time: Three Hours]

[Max. Marks: 80]

“Please check whether you have got the right question paper.”

i) .Solve any two from each section

ii) Assume suitable data Wherever necessary

SECTION A

- Q.1 a) Explain in details the power flow in AC transmission system. 10
b) Explain benefits of FACTS technology in details. 10
- Q.2 a) Explain working of shunt & series controllers with neat sketches. 10
b) Explain in Details the objective & Concept of working of shunt compensator. 10
- Q.3 Write short note on any four 20
a) Static VAR compensator
b) SSSC
c) STATCOM concept
d) TCPSTIF
e) TCSC

SECTION-B

- Q.4 a) Explain with neat sketch, the NGH-SSR damping scheme. 10
b) Explain in details with neat sketch the basic operation of UPFC. 10
- Q.5 a) Explain working of fixed capacitor TCR in details 10
b) Explain in details the switching convertor based voltage & phase angle Regulators. 10
- Q.6 Write short on any four 20
a) UPFC
b) IPFC
c) TCFC
d) NGH-SSR
e) STATCOM Applications