B. E (Electrical) - semvin - CBSC15 -22/5/18 May 2018 Q. P. Code: 40564 Flexible AC Trammission System



Duration - 3 Hours Total Marks - 80 N.B i) Question No. 1 is compulsory. ii) Attempt any three questions from remaining. iii) Assume suitable data and mention the same. iv) Figures to the right indicate full marks. Q.1 Attempt any Four Compare HVDC with FACTS. A) (10)Write short note on ideal compensation (10)Q.2 * Explain thyristor controlled voltage regulator. A) (10)Explain switching converter VAR generator. B) (10)Q.3 A) Explain TSSC in series compensation with circuit diagram and V-1 characteristics. (10)What is reactive power bias in reactive power characteristics? B) (10)Q.4 Draw & Explain basic type of FACTS controller. A) (10)B) Explain the UPFC in detail. (10)Q.5 Explain the objective of shunt compensation. A) (10)B) Explain voltage regulation in single phase system. (10)Q.6 A) • Explain with circuit diagram and waveform. (10)1. TCR 2. TSR 3. TSC Explain switching converter based voltage and phase angle regulator. B) (10)