

B. D. COLLEGE OF ENGINEERING, SEVAGRAM

Department of Electrical Engineering (E&P)

Quiz – II

Subject: (Elective-II) EHVAC & HVDC Power Transmission System

1. HVDC transmission needs

- a) Pulse converters
- b) Dc generators
- c) Ac filters
- d) Dc filters

Ans: c

2. A dc line carries

- a) Less power than an equivalent ac line
- b) More power than the ac line
- c) Same power as an ac line

Ans: b

3. In the case of an HVDC system, there is

- a) Charging current but no skin effect
- b) No charging current but skin effect
- c) Neither charging current nor skin effect
- d) Both charging current and skin effect

Ans: a

4. For bulk power transmission over long distance HVDC transmission is

- a) Is economically and technically superior to ac transmission
- b) Not good alternative to ac transmission
- c) Not economically viable

Ans: a

5. Bulk power transmission over long HVDC lines are preferred on account of

- a) Low cost of an HVDC terminal
- b) No harmonic problem
- c) Minimum line power losses
- d) Simple protection

Ans: c

6. As compared to ac transmission dc transmission is free from

- a) Inductance
- b) Capacitance
- c) Phase displacement
- d) All of the above

Ans: d

7. For power factor improvement static capacitors have the drawback of

- a) Short-service life
- b) Getting damaged by high voltage
- c) Not repairable
- d) All of the above

Ans: d

8. For power factor improvement static capacitors have the advantage of

- a) Small losses
- b) Easy installation
- c) Low initial cost and little maintenance
- d) All of the above

Ans: d

9. Static capacitors are rated in terms of

- a) kVAR
- b) kW
- c) kVA
- d) kWh

Ans: a

10. For a consumer the most economical power factor is usually

- a) 0.25-0.5 lagging
- b) 0.25-0.5 leading
- c) 0.85-0.95 lagging
- d) 0.85-0.95 leading

Ans: c