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Power Systems MCQ

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Q1. In which of the following place India's largest thermal power station is located?

- A. Sarni
- B. Kota
- C. Neyveli
- **D. Chandrapur**

Q2. What is the Advantages of higher transmission voltage?

- A. Transmission line losses are reduced
- B. Area of cross section and volume of the conductor is reduced
- C. Power transfer capability of the transmission line is increased
- **D. All of the above**

Q3. is used for changing power factor from leading to lagging.

- A. Series capacitor
- B. Shunt capacitor
- **C. Shunt reactor**
- D. None of the above

Q4. What is the range of accelerating factor?

- A. 1 to 10
- **B. 1.6 to 1.8**

- C. 50 to 100
- D. 10.8 to 11.2

Q5. which of the following configuration power transferability is higher?

- A. Horizontal
- B. **Triangular**
- C. Circular
- D. None of the above

Q6. When the skin effect of conductor will increase, the resistivity will.....

- A. Increase
- B. **Decrease**
- C. Both A & B
- D. None of the above

Q7. Which of the following relation is true for transmission line?

- A. $AD - BC = 0$
- B. **$AD - BC = 1$**
- C. $AD + BC = 0$
- D. None of the above

Q8. What is the condition for zero voltage regulation?

- A. $\cos\phi = X/R$
- B. $\tan\phi = X/R$
- C. **$\tan\phi = R/X$**
- D. None of the above

Q9. insulator is practically used for railway crossings?

- A. Pin insulator
- B. **Strain insulator**
- C. String insulator
- D. None of the above

Q10. Which of the following suspension type insulators are used for voltage beyond?

- A. 11 kV
- **B. 33 kV**
- C. 230 V
- D. 440 V

Q11. What is the factor value of Plant capacity?

- A. 0
- B. 1
- **C.**
- D. >1

Q12. Which of the highest pressure generating pump inside the thermal plant?

- **A. Boiler feed pump**
- B. Low pressure heater
- C. high pressure heater
- D. None of the above

Q13. Which of the following is the function of economizer in steam boilers?

- A. Cooling
- B. Collect ash particals
- **C. Improving thermal efficiency**
- D. None of the above

Q14. Which of the following material is used as coolant in nuclear power plants?

- A. Graphite
- B. Beryllium
- **C. Liquid sodium**
- D. None of the above

Q15.is mainly used to cover peak load on the system.

- A. Nuclear plant
- B. Gas based thermal power plant
- C. Coal based thermal power plant
- **D. Pumped storage hydro power plant**

Q16. Which of the following is the units of incremental cost?

- A. Rs/hr
- **B. Rs/MWhr**
- C. RsMW/hr
- D. None of the above

Q17. Performance of short transmission lines depends on-

- A. Resistance and Inductance
- B. Resistance and Capacitance
- **C. Resistance, Inductance and Capacitance**
- D. None of the above

Q18. Does medium transmission line operate below voltage level of 20 KV?

- A. Yes
- **B. No**

Q19. What is the range of surge impedance for an underground cables?

- A. 400 ? – 600 ?
- B. 12 ? – 144 ?
- **C. 40 ? – 60 ?**
- D. None of the above

Q20. is not used for voltage control?

- A. Series compensators
- **B. Induction generators**
- C. Tap changing transformer
- D. Synchronous phase modifiers

Q21. Which fluid is used in hydraulic power systems?

- A. Oil
- B. Water
- C. Non-compressed Fluids
- **D. All of the above**

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