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1. Who relay is usually employed for the protection of
  - a) Short lines only
  - b) Medium lines only
  - c) Long lines only
  - d) Any line

Ans: Long lines only
2. A modern power semiconductor device IGBT is combines the characteristics of

- a) BJT and MOSFET
  - b) FCT and GTO
  - c) SCR and MOSFET
  - d) SCR and BJT
- Ans: BJT and MOSFET

3. For a single-phase a.c. to d.c. controlled rectifier to operate in regenerative mode, which of the following conditions should be satisfied?
- a) Half -controlled bridge,  $\alpha < 90^\circ$ , source of e.m.f. in load
  - b) Half-controlled bridge,  $\alpha > 90^\circ$ , source of e.m.f. in load
  - c) Full-controlled bridge,  $\alpha > 90^\circ$ , source of e.m.f. in load
  - d) Full-controlled bridge,  $\alpha < 90^\circ$ , source of e.m.f. in load
- Ans: Full-controlled bridge,  $\alpha > 90^\circ$ , source of e.m.f. in load

4. Which is the most suitable power device for high frequency ( more 100 kHz) switching application?
- a) Power MOSFET
  - b) BJT
  - c) SCR
  - d) UJT
- Ans: Power MOSFET

5. In a thyristor Latching current is \_\_\_\_\_ than Holding current
- a) Equal
  - b) Less
  - c) Greater
  - d) None
- Ans: Greater

6. The transfer function of a system is  $10/(1+s)$  when operating as a unity feedback system, the steady state error to a step input will be
- a) 0
  - b) 1/11
  - c) 10
  - d) Infinity
- Ans: 1/11

7. Which one of the following statements for a dc machine which is provided with inter pole winding (IW) as well as compensating winding (CW) is correct
- a) Both IW and CW are connected in series with Armature winding
  - b) Both IW and CW are connected in parallel with Armature winding
  - c) IW connected in series but CW is connected in parallel with Armature winding
  - d) CW connected in series but IW is connected in parallel with Armature winding
- Ans: Both IW and CW are connected in series with Armature winding

8. A 0-10 mA PMMC ammeter reads 5mA in a circuit; its bottom control spring snaps out suddenly the meter will now read.
- a) 5mA
  - b) 10mA
  - c) 2.5mA
  - d) 0
- Ans: 0

9. A dc cumulatively compounded motor delivers rated load torque at rated speed. If series field is short circuited, then the armature current and speed will
- a) Both increases
  - b) Both decreases
  - c) Increases and decreases
  - d) Decreases and increases
- Ans: Both increases

10. Moving coil in dynamometer wattmeter connected
- a) In series with fixed coil
  - b) Across supply
  - c) In series with load
  - d) Across load
- Ans: Across supply

11. In an induction machine, if the air gap increased
- a) Speed will be reduced
  - b) Efficiency will be improved
  - c) Power factor will be lowered
  - d) Breakdown torque will be reduced
- Ans: Power factor will be lowered

12. A CRO screen has ten divisions on the horizontal scale. If a voltage signal  $5 \sin 314t + 45 \text{ deg}$  is examined with a line base settings of 5 msec/div, the number of cycles of signal displayed on the screen will be
- a) 0.5 cycles
  - b) 2.5 cycles
  - c) 5 cycles
  - d) 10 cycles
- Ans: 2.5 cycles

13. A 3-phase 50HZ SCIM takes a power input of 30 KW at its full load speed of 1440 rpm. Total stator losses are 1 KW. The slip and rotor ohmic losses at full load are
- a) 0.02, 600 W
  - b) 0.04, 580 W
  - c) 0.04, 1160 W
  - d) 0.04, 1200 W
- Ans: 0.04, 1160 W

14. Thermocouple is used to measure

- a) AC
- b) DC
- c) Both
- d) None

Ans: Both

15. The two watt meters measurement the ratio of two meter readings is  $-(1-\sqrt{3})/(1+\sqrt{3})$  then the power factor is

- a) 1
- b) 0.866
- c) 0.707
- d) 0

Ans: 0.707

16. Hays bridge is used to measure\_\_\_\_\_ and Schering bridge is used to measure\_\_\_\_\_

- a) Inductance, Inductance
- b) Inductance, Capacitance
- c) Capacitance, Inductance
- d) Resistance, Capacitance

Ans: Inductance, Capacitance

17. When sine wave is given as input to Schmitt trigger then its generates

- a) Sine wave
- b) Saw tooth wave
- c) Triangle wave
- d) Square wave

Ans: Square wave

18. In Gauss Seidel method the following factors are influenced for operation

- a) Acceleration factor
- b) Selection of slack buss
- c) Both
- d) None

Ans: Selection of slack buss\*

19.

i.  $(X' + Y')$  A. Low-pass filter function

ii.  $(X' Y')$  B. Sum

iii.  $(XY)$  C. NAND

D. Carry

E. NOR

a) i-C, ii-E, iii-D

b) i-C, ii-E, iii-B

c) i-C, ii-B, iii-D

d) i-C, ii-E, iii-A

Ans: i-C, ii-E, iii-D

20. The phase lead compensation is used to

- a) Increase rise time and decrease overshoot
- b) Decrease both rise time and overshoot
- c) Increase both rise time and overshoot
- d) Decrease rise time and increase overshoot

Ans: Decrease rise time and increase overshoot

21. Voltage feed back amplifier is a

- a) Shunt-Shunt
- b) Shunt-Series
- c) Series-Shunt
- d) Series- Series

Ans: Shunt-Shunt

22. In microprocessor the next instruction to be executed is stored in

- a) Program Counter
- b) Stack Pointer
- c) Memory Pointer
- d) Accumulator

Ans: Program Counter

23. The following element retains it energy after source is disconnected

- a) Resister
- b) Inductor
- c) Capacitor
- d) Thermistor

Ans:

24. In series RLC circuit at resonant

- a) Voltage is in phase with current
- b) Current is maximum
- c) Inductive reactance = Capacitive reactance
- d) All of the above

Ans: All of the above

25. For RC low pass filter  $R=100\text{ K ohms}$ ,  $C=5\text{ micro farads}$  then lower cutt of frequency is

- a) 1 K HZ
- b) 0 HZ

- c) 381.3 HZ
  - d) Infinity
- Ans:

26.  $V=100\sin(1000t+46^\circ)$ ,  $I=2\sin(1000t+80^\circ)$  what are the elements in the circuit
- a)  $R=30\ \Omega$ ,  $L=30\ \text{mH}$
  - b)  $R=30\ \Omega$ ,  $C=33.3\ \mu\text{F}$
  - c)  $R=40\ \Omega$ ,  $L=30\ \text{mH}$
  - d)  $R=40\ \Omega$ ,  $L=33.3\ \mu\text{F}$

Ans:  $R=40\ \Omega$ ,  $L=33.3\ \mu\text{F}$

27.  $L=10\ \text{mH}$ ,  $I=100\sin 50t$
- a)
  - b)
  - c)
  - d)
- Ans:

28. In dielectric measurement, the dielectric loss is proportional to
- a)  $F$
  - b)  $V$
  - c)  $I$
  - d)  $V_{\text{sqr}}$
- Ans:  $V_{\text{sqr}}$

29.  $G(s) = (1-s)/s(s+2)$  then closed loop transfer function is
- a) Unstable
  - b) Stable
  - c) Marginally stable
  - d) All
- Ans: Stable

30.  $G(s) = (1+0.5s)/(1+s)$  find which type of net work it is
- a) Lead net work
  - b) Lag net work
  - c) Lag - Lead net work
  - d) Lead - Lag net work
- Ans: Lag net work

31. Temperature of electrode in Arc furnace is
- a) 1000 deg
  - b) 1500 deg
  - c) 1500 deg to 3500 deg
  - d) 4500 deg
- Ans:

32. In bode plot the point which separates the lower and upper frequencies is called
- a) Critical point
  - b) Cut-off point
  - c)
  - d)
- Ans:

33. Nyquist stability is used to determine
- a) Absolute Stability
  - b) Relative Stability
  - c) Both
  - d) None
- Ans: Both\*

34. When 220V dc shunt alternator generating the voltage at rated value. If direction of rotation is reversed, then alternator will
- a) Build up its voltage with same polarity
  - b) Build up its voltage with opposite polarity
  - c) No build up of voltage
  - d) None
- Ans: No build up of voltage

35. Over lap Angle depends on\_\_\_\_\_
- a) Load inductance
  - b) Load capacitance
  - c) Source inductance
  - d) Source capacitance
- Ans: Source inductance

36. Area under speed time curve gives
- a) Time
  - b) Speed
  - c) Distance
  - d) None
- Ans: Distance

37. The regulation of Short Transmission lines depends up on
- a) Distance of line
  - b) Frequency
  - c) Power factor
  - d) All

Ans: Power factor

38. Which of the following plant is having lowest load factor?

- a) Diesel Plant
- b) Pumped storage Plant
- c) Thermal Plant
- d) Nuclear Plant

Ans: Diesel Plan

39. For SR latch whent the out put is undesirable

- a) 0, 0
- b) 1, 0
- c) 0, 1
- d) 1, 1

Ans: 1, 1

40. For interrupting capacitive currents which Circuit Breaker (CB) is used

- a) SF6 CB
- b) Oil CB
- c) Vacuum CB
- d) Air blast CB

Ans: Vacuum CB

41. For V/F control, when frequency is increased in transformer

- a) Core loss component current increases, Magnetizing component current decreases
- b) Core loss component current increases, Magnetizing component current increases
- c) Core loss component current decreases, Magnetizing component current decreases
- d) Core loss component current decreases, Magnetizing component current increases

Ans: Core loss component current decreases, Magnetizing component current decreases

42. In ceiling fan the angle between auxiliary winding a main winding is

- a) 0 deg
- b) 90 deg
- c) 180 deg
- d) 360 deg

Ans: 90 deg

43. In a shaded pole motor, shaded rings are used to

- a) Field flux production
- b)
- c)
- d)

Ans: Field flux production

44. Practical method of improving string efficiency

- a) Increasing crass arms length
- b) Using different size of insulators
- c) Using different insulator materials
- d) Using of guard rings

Ans: Increasing crass arms length\*

45. In which type of fault all 3-phase components are equal

- a) L-G
- b) L-L
- c) L-L-G
- d) 3-Phase fault

Ans: 3-Phase fault

46. 11/220 KV 100 MVA transformers, the primary base voltage rating is 10 KV then secondary base KV is

- a) 10 KV
- b) 220 KV
- c)  $220/\sqrt{3}$
- d)

Ans:  $220/\sqrt{3}$ \*

47. Water hamming effect is occurs in

- a) Surge tank
- b) Penstock
- c) Turbine
- d) Reservoir

Ans: Penstock

48. Transient stability can be improved by

- a) By putting series capacitor
- b) By using dynamic resister
- c) Auto re-closers
- d) All of the above

Ans: All of the above

49. If sending end voltage is  $V_s$  at no-load in a transmission line then receiving end voltage is if ABCD parameters of line is given

- a)  $V_s$
- b)  $V_s/A$
- c) 0
- d) Infinity

Ans:  $V_s/A$

50. Harmonics are eliminated by using

- a) Skewing of rotor
- b) Distribution winding
- c) Short pitch winding
- d) All of the above

Ans: All of the above

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