

## BSNL GE-JTO Recruitment Examination

1. Reactive current through the capacitive load produces -

Answer is :- b) Electric field

2. One of the following which gives piezo-electric effect is -

Answer is :- b) PVDF

3. PZT piezo- electric materials have -

Answer is :-b) Lower curie temperature

4. The residual resistivity of a binary alloy at OK is -

Answer is :-d) Dependent on the concentration of the minor component in the alloy

5. In active filter circuits, inductances are avoided mainly because they -

Answer is :-b)Are bulky and unsuitable for miniaturisation

6. The depletion layer across a p-n junction lies -

Answer is :-b) mostly in the n-region

7. The voltage induced in a loop of wire rotating in a strong and steady magnetic field is -

Answer is :-d) ac

8. One of the following types of capacitor which is polarized is -

Answer is :-a) Electrolytic

9. Electric shock is -

Answer is :-c) Sometimes fatal

10. A typical value of filter capacitor for 50 Hz ripple is -

Answer is :-a) 16mF

11. A telephone relay armature is made of material with -

Answer is :-c) Negligible conductivity

12. Larger the value of filter capacitor -

Answer is :-d) Smaller is the dc voltage across the load

13. Barrier potential in a P-N junction is caused by -

Answer is :-b) Diffusion of majority carriers across the junction

14. The polarity of VGS for E-only MOSFET is -

Answer is :-d) depends on P or N channel

15. The following which will serve as a donor impurity in silicon -

Answer is :-d) Antimony

16. When bias applied to a vari-cap diode is increased, its capacitance -

Answer is :-a) is decreased

17. In case of a bipolar transistor  $\alpha$  is -

Answer is :-d) negative and less than 1

18. A BJT is -

Answer is :-b) very sensitive to radiations.

19. An SCR may be considered to be -

Answer is :-b) 3 diodes

20. For a BJT, under the saturation condition -

Answer is :-d)  $I_C < I_B$

21. In modern MOSFET's the material used for the gate is -

**Answer is :-c) Heavily doped polycrystalline silicon**

29. When the network has 10 nodes and 17 branches then the number of different node pair voltages would be -

**Answer is :-b) 9**

30. The circuit shown in the following fig. will act as an ideal current source with respect to terminals A and B when frequency is -

**Answer is :-c) 4rad/s**

31. When a short vertical grounded antenna is required to radiate at 1MHz and the effective height of the antenna is 30 m then the calculated value of the radiation resistance is -

**Answer is :-c) 15.8 W**

32. Shannon's law relates -

**Answer is :-d) information carrying capacity to S/N ratio**

33. One of the following modes which has the characteristic of attenuation becoming less as the frequency is increased and is attractive at microwave frequencies of circular cylindrical wave guides is -

**Answer is :-c) TE<sub>01</sub> mode**

34. For a transmission line, the propagation constant, for a TEM wave travelling in it is given by (Where the symbols have the usual meanings ) -

**Answer is :-b)  $[R+j\omega L] (G+j\omega C)]^{1/2}$**

35. The advantages of wave guides over co-axial lines would include which of the following features -

1. Easier to use
2. lower power losses
3. Higher operating frequencies possible

**Answer is :-c) 2 and 3**

36. When a 75 ohm transmission line is to be terminated in two resistive loads R<sub>1</sub> and R<sub>2</sub> such that the standing pattern in the two cases have the same SWR , then the values of R<sub>1</sub> and R<sub>2</sub> (in ohms) should be -

**Answer is :-b) 225 and 25 respectively**

37. The degenerate modes in a wave guide are characterized by -

**Answer is :-a) Same cut off frequencies but different field distribution**

38. A TEM wave impinges obliquely on a dielectric-dielectric boundary with  $\epsilon_{r1}=2$  and  $\epsilon_{r2}=1$ , the angle of incidence for total reflection is -

**Answer is :-a) 30°**

39. The radiation pattern of Hertzian dipole in the plane perpendicular to the dipole is a -

**Answer is :-c) Figure of eight**

40. Permeance is the -

**Answer is :-c) reciprocal of the reluctance**

41. One of the following which is an active transducer is -

**Answer is :-d) Photo emission**

42. The wein bridge uses only -

**Answer is :-d) Capacitors and Resistors.**

43. The greater the value of Q -

**Answer is :-b) smaller will be the bandwidth of the resonant circuit.**

44. The most serious source of error in a c) bridge measurement is -

**Answer is :-d) stray fields.**

45. Moving iron instruments -

Answer is :-b) do not have a linear scale

46. If accuracy is the main consideration, which one of the following voltmeters should one select -

Answer is :-d) 10,000 v ; 10 mA

47. In dc tachogenerators used for measurement of speed of a shaft, frequent calibration has to be done because -

Answer is :-c) the armature current produces heating effect

48. Ideal transformer cannot be described by -

Answer is :-c) G parameters

49. Consider the following statements -

A3- phase balanced supply system is connected to a 3 phase unbalanced load) Power supplied to this load can be measured using

1. Two wattmeters
2. One wattmeter
3. Three wattmeters

Which of these statements is/are correct?

Answer is :-b) 1 and 3

50. The function of the reference electrode in a pH meter is to -

Answer is :-a) Produce a constant voltage

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