

## 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 a 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)  $I_C < \beta I_B$
21. In modern MOSFET's the material used for the gate is -  
Answer is :-c) Heavily doped polycrystalline silicon  
28. An attenuator drops a 10V signal to 50mV in an experiment.
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 R1 and R2 such that the standing pattern in the two cases have the same SWR, then the values of R1 and R2 (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  $E_{r1}=2$  and  $E_{r2}=1$ , 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 tacho generators 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 -  
A 3-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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