

## BSNL GE-JTO Recruitment Examination (2)

51. Match the column A (Devices) with column B (Characteristics) and select the correct answer by using the codes given below the column -  
Column A Column B

- A) BJT 1. Voltage controlled negative resistance  
B) MOSFET 2. High current gain  
C) Tunnel diode 3. Voltage regulation  
D) Zener diode 4. High input impedance

Codes :

Answer is :-b) 2 4 1 3

52. A thyristor during forward blocking state is associated with-

Answer is :-b) low current , large voltage.

53. In controlled rectifiers, the nature of load current i.e. whether load current is continuous or discontinuous -

Answer is :-b) depends both on the type of load and firing angle delay

54. A single phase voltage controller feeds power to a resistance of 10 W. The source voltage is 200 V rms. For a firing angle of 90°, the rms value of thyristor current in amperes is -

Answer is :-c) 10

55. In the performance of single phase and three phase full converters the effect of source inductance is to

Answer is :-c) reduce the output voltage

56. The cycloconverters (CCs) require natural or forced commutation as under -

Answer is :-c) forced commutation in step up CCs

57. Power transistors are more commonly of -

Answer is :-a) silicon npn type.

58. C is a -

Answer is :-b) High level language

59. What will be output of program

```
main ()
{ int i ;
printf("Enter value of i");
scanf ("%d", & i);
if( i = 5 )
printf("you entered 5?);
else
printf("you entered %d", i); }
```

if user entered 100 then

Answer is :-a) 5

60.  $(7F)_{16} + (BA)_{16} = (?)_{16}$ -

Answer is :-b) 139

61. Two's complement of 3 bit nonzero binary number is same or original number is all bits excepts-

Answer is :-a) MSB are zeros

63. Transistors with high frequency have -

Answer is :-a) Thick base

64. Telephone traffic is specified in terms of-

Answer is :-d) Erlangs

65. In a Hartley oscillator -

Answer is :-a) Necessary phase relation is obtained by connecting grid and plate electrodes to the opposite ends of the tuned circuit.

66. The condenser C is charged in a bootstrap sweep generator -

Answer is :-a) Linearly but the discharge is non linear

67. In an audio amplifier audio signals become garbled and hence difficult to understand when an ac input current is large enough to drive the output to -

Answer is :-c) Either saturation or cut off

68. Five 1 bit registers are referred as -

Answer is :-a) Flags

69. Next binary number after 0, 1, 10, 11 is -

Answer is :-c) 100

72. If an inverter is placed at the input to an SR flip flop, the result is -

Answer is :-b) D flip flop

74. For the transfer function  $G(S)/H(S)$  = the phase cross over frequency is -

Answer is :-b) 0.707 rad/sec

78. Angle subtended by earth at geostationary communication satellite is -

Answer is :-a) 17.340

79. For data transmission phase modulation is commonly used because -

Answer is :-b) It is resistant to the effects of noise.

80. Several channels are interleaved and then transmitted together is known as -

Answer is :-a) Frequency division multiplex

81. Identify the wrong statement-

The radar cross section of a target -

Answer is :-d) Is equal to the actual cross-sectional area for small targets.

82. Considering following parameters -

1. Loss in the media) 2. Permeability of the media) 3. Frequency of the wave 4. Velocity of the wave. Which of these parameters are responsible for the change of phase of a propagating electromagnetic wave?

Answer is :-b) 2, 3 and 4

83. In super heterodyne receivers double spotting is caused by -

Answer is :-a) poor front-end rejection

84. The number of lines per field in the United States TV system is -

Answer is :-a) 262 1/2

85. In a TV receiver the color killer -

Answer is :-a) cuts off the chroma stages during monochrome receivers.

86. The nominal capacitance of a coaxial RF cable is of 40 pF/m and the characteristic impedance of 50Ω. The inductance of the cable is-

Answer is :-c) 0.1 mH/m

87. Transmission of wave through Dominant mode is -

Answer is :-a) distortion less transmission

88. Lower the standing wave ratio (SWR) -

Your Answer is -

Answer is :-b) Lower mismatch error

89. In klystron oscillator for getting wide range of oscillations resonators should be -

Answer is :-c) Over coupled

90. The critical frequency is always -

Answer is :-a) Lower than maximum usable frequency

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