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BSNL JTO

- 1. Of the following bridges the one which can be used for the measurement of dielectric loss of a capacitor is
 - a.) Schering bridge
 - b.) Heaviside campbell equal ratio voltage
 - c.) Owen bridge
 - d.) d.) Anderson bridge
- 2. LBDT is uses as a
 - a.) Displacement transducer
 - b.) Pressure transducer
 - c.) Temperature
 - d.) Any of the above
- 3. Polarization is a measure of
 - a.) Dielectric constant per unit volume.
 - b.) Voltage gradient to produce electrical breakdown
 - c.) Product of charge and distance
 - d.) Excess charge density
- 4. Compared to the inductive type of transducer, capacitive transducer is superior for the measurement of displacement because of
 - a.) Absence of non-linearity
 - b.) High frequency response
 - c.) Small size
 - d.) High accuracy
- 5. An incremental model of a solid state device is one which represents the
 - a.) ac property of the device at the desired operating point
 - b.) b.)dc property of the device at all operating points
 - c.) c.) Complete ac and dc behaviour of the device at all operating points
 - d.) d.)ac property of the device at all operating points.
- 6. The ac resistance of a forward biased p-n junction diode operating at a bias voltage ,V, and carrying current †I' is –

- a.)Zero
- b.)a constant value independent of Vand I
- c.
- d.
- 7. A meter is shielded with a soft iron to $\hat{a} \in \hat{}$
 - a.)Prevent damage from rough use
 - b. Keep moisture out of movement
 - c. c.)Protect meter movement from stray magnetic fields
 - d. d.) Achieve all of the above
- 8. A capacitor that has been connected across a battery for comparatively long time becomes–
 - a.)Charged
 - b.) Discharged
 - c.) Short circuited
 - d.) Defective
- 9. The charge on the plates of a capacitor is given by the expression $\hat{a} \in \hat{}$
 - a.) Q = VI
 - b.) Q = IR
 - c.) Q = CV
 - d.) Q = IC

10.Silicon steel used for electrical purposes has silicon percentage of $\hat{a} \in \hat{}$

- a.)0.5
- b.) 2.5
- c.) 3.4
- d.) d). None
- 11. The feature of VTM is its
 - a.)Low input impedance
 - b.)Low power consumbtion
 - c.)The ability to measure wider ranges of voltage and resistances
 - d. . None
- 12.In an N-type <u>semiconductor</u>, the position of the fermi level
 - a.)Is lower than the centre of the energy gap
 - b.) Is at the centre of the energy gap
 - c.) c.)Is higher than the centre of the energy gap
 - d.) d.)Can be anywhere depending upon the doping concentration
- 13.A JFET can operate in
 - a.) depletion and enhancement model
 - b.) b.)depletion mode only
 - c.) c.)enhancement mode only

- d.) d.) neither enhancement nor depletion mode
- 14.Consider the following semiconductor diodes
 - a.)Germanium diode
 - b.) b.)Silicon diode
 - c.) c.) Tunnel diode
 - d.) d.) Schottky diode
- 15.A diode with a PIV of 50V is likely to break down when rectifying 50v ac supply because
 - a.) it is made of defective material
 - b.) it is incorrectly connected to the supply
 - c.) peak value of ac supply exceeds the PIV value
 - d.) d.)ac supply is of extremely high frequency.
- 16. The set of transistor characteristics that enables a to be determined directly from the slope is
 - a.) CE transfer characteristics
 - b.) b.)CE output characteristics
 - c.) c.) CB transfer characteristics
 - d.) d.) CB input characteristics
- 17.For an N-channel JFET, the drain voltage has to be
 - a.) positive with respect to the source
 - b.) negative with respect to the source
 - c.) uncharged with respect to the source
 - d.) d.)none
- 18. The SCR is often employed as a
 - a.)Source-controlled switch
 - b.)Drain-controlled switch
 - c. Gate-controlled switch
 - d. d) None
- 19. An oscilloscope has an input impedance consisting of 1MW and 20pF in parallel. A high impedance probe connected to the input of this oscilloscope has a 10MW series resistance, this 10MW resistance –

a.) Need not be shunted

- b.) Should be shunted by a 2pF capacitor
- c.) Should be shunted by a 20pF capacitor
- d.) d.)Should be shunted by a 200pF capacitor
- 20.Compared to silicon, gallium arsenide (GaAs) has
 - a.)Easier to grow crystals since the vapour pressure of arsenic is high
 - b.)Higher optolectronic conversion efficiency
 - c. Both a and b

d. d). None

- 21. When the <u>network</u> shown in the fig draw a current I and if the ends ab are shorted, the current drawn would be
 - a.) I
 - b.) I∖ 4
 - c.) 4 I
 - d.) 2 I
- 22. When all the resistances in the circuit are of one ohm each, then the equivalent resistance across the points A and B will be
 - a.) a.)1W
 - b.) b.) 0.5W
 - c.) c.) 2W
 - d.) d). 1.5W
- 23.Of the following periodic waveforms the one having only odd harmonics of sinusoidal waveform is
 - a.)1 and 2
 - b.) 1 and 3
 - c.) c.)1 and 4
 - d.) d.)2 and 4
- 24. When in the network shown in the given fig, the switch K is dosed at t = 0 with the capacitor uncharged then the value for at t = 0+ will be $\hat{a}\in$
 - a.)100 amp./sec.
 - b.)–100 <u>amp</u>./sec.
 - c.)1000 amp./sec.
 - d.)–1000 amp./sec.
- 25.For the circuit shown in the given figure, the voltage VAB is
 - a.)6V
 - b.) b.)10V
 - c.) c.)25V
 - d.) d.)40V
- 26.In the network shown in the given fig. current i = 0 when E = 4V, I = 2A and I = 1A when E = 8V, I = 2A. The Thevenin voltage and the resistance into the terminals AB are $\hat{a}\in$ "

a.)4V, 2W

- b.) 4V, 4W
- c.) 8V, 2W
- d.) 8V, 4W
- 27. The effective resistance between the terminals A and B in the circuit shown in the fig. is
 - a. R
- b) R-1
- c) R/2
- d) 6/11 R
- 28. When in a two terminal network, the open circuit voltage measured at the given terminals by an electronic voltmeter is 100V and a short circuit current measured at the same terminals by an ammeter of negligible resistance is 5A then if a resistor of 80W is connected at the same terminal, then the current in the load resistor will be
 - a.)1A
 - b.) 1.25A
 - c.) c). 6A
 - d.) d.) 6.25A
- 29.If for the network shown in the following fig. the value of Z(s) is then the value of C and R are respectively –
- 30.In Faradayâ€[™]s induction phenomenon, a changing magnetic field is accompanied by an electric field. Which of the following equation or equations represents it-

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- 31. The electric potential due to an electric dipole of length L at point distance r away from it will be doubled if the
 - a.) Length L of the dipole is doubled
 - b.) r is doubled
 - c.) r is halved

- d. d) L is halved
- 32. When a particular mode is excited in a waveguide there appears an extra electric component in the direction of propogation . The resulting mode is
 - a.) Longitudinal electric
 - b.) Transverse electromagnetic
 - c.) Transverse magnetic
 - d. d). Transverse electric
- 33. When for a transmission line the open circuit and short circuit impedance are 20W and 5 W respectively then the characteristic impedance of the line is
 - a.) 100 Ohms
 - b. b). 50 Ohms
 - c. c.) 25 Ohms
 - d. d.) 10 Ohms
- 34.In an ideal transmission line with matched load, the voltage standing wave ratio and reflection coefficient are respectively
 - a.) 1 and 1
 - b. b). infinity and 1
 - c. c) infinity and 0
 - d. d.) 1 and 0
- 35. When an electric charge of 100 coulombs is enclosed in sphere of radius 100 m then the electric displacement density (in coulomb / m2) D is
 - a.) 0.0833
 - b. b). 0.833
 - c.) 1.666
 - d.) 10
- 36.For the dominant mode in a rectangular wavelength with breadth 10 cm, the guide wavelength for a signal of 2.5 GHz will be
 - a.) 12 cm
 - b.) 15 cm
 - c.) 18 cm
 - d.) 20 cm
- 37. When the phase velocity of an electromagnetic waves depends on frequency in any medium, the phenomenon is called
 - a.) Scattering
 - b.)Polarization
 - c.) Absorption
 - d.) Dispersion

- 38. Antennas commonly used for microwave links are
 - a.) Loop antenna
 - b.) Log-periodic antennas
 - c.) Paraboloidal dishes
- 39.39. One of the following instrument which may be used to measure the optical activity of compounds is
 - a.)Infrared spectrometer
 - b.) Atomic absorption spectrometer
 - c.) Polarimeter
 - d.) Flouroscope
- 40.Schering bridge measures
 - a.)Capacitance dielectric loss
 - b.) Inductance
 - c.)Resistance
 - d.) Mutual inductance
- 41. When a square wave is fed to an RC circuit, then $\hat{a} \in \mathcal{C}$
 - a.) voltage across R is square and across C is not square
 - b.) voltage across C is not square and across R is not square
 - c.) voltage across both R and C are square
 - d.) voltage across both R and C are not square
- 42. The time constant of the RC circuit is
 - a.) less than the time period of the input square wave.
 - b.) b). much larger than the time period of the input square wave.
 - c.) c.) equal to the time period of the input square wave.
 - d.) d). none
- 43.Harmonic distortion for each frequency can be obtained by harmonic analyser of the
 - a.)heterodyne type
 - b.) tuned circuit type
 - c.) fundamental suppression type`
 - d.) bridge circuit type.
- 44.A three phase wattmeter requires
 - a.) a). only two current coils and two pressure coils
 - b.))only one current coil and two pressure coil
 - c.)) only two current coils and one pressure coil
 - d.)) only current coil
- 45.A low pass filter circuit is basically
 - a.) a differentiating circuit with low time constant
 - b.) a differentiating circuit with large time constant.

c.) an integrating circuit with low time constant.

- d.)an integrating circuit with large time constant.
- 46.If the differential pressure in restriction type flow measuring devices is then the flow will be proportional to –

47.

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48.

- 49. When a system is represented by the transfer function then the dc gain of this system is
 - a.) 1
 - b.) 2
 - c.) 5
 - d.) 10
- 50.Silicon based semiconductor device called thyristor was first fabricated by
 - a.) a). Jell laboratories in U.S.A
 - b.) b). Maxwell laboratories in U.S.A
 - c.) c.) Bell laboratories in U.S.A
 - d.) d). GEC laboratories in U.S.A
- 51.A semiconductor based temperature transducer has a temperature coefficient of –2500mV/0C. This transducer is indeed a
 - a.) a.)Thermistor
 - b.) b.) Forward biased pn junction diode
 - c.) c.)Reverse biased pn junction diode
 - d.) d.) FET
- 52. Which of the followings pairs of Telemetry situations and Modulation techniques and conditions is correctly matched-

a.) a.)Pulse amplitude modulationb.) b.)Pulse position modulationb.) b.)Pulse position modulationb.) b.)Pulse position modulation

- power is enough
- c.) c.) Pulse width modulation Power to be spent in telemetry is required to be low
- d.) d.) Pulse code modulation. Minimisation of interference effects.
- 53. The SCR ratings di/dt in A/m sec and dv/dt in n/m sec, may vary, respectively between
 - a.) 20 to 500, 10 to 100

b.) b.)both 20 to 500
c.) c.) both 10 to 100
d.) d.) 50 to 300, 20 to 500

- 54.Match the given controlled rectifiers with 50 Hz supply
 - a.) a.)1 phase full converter with source inductance
 - b.) b.)3 phase full converter
 - c.) c.)3 phase semiconductor
 - d.))3 phase halls wave converter
- 55.For natural or forced commutation the cyclo converters (CCs) requires as under.
 - a) natural commutation in both step up and step down CCs
 - b.) forced commutation in both step up and step down CCs
 - c.) forced commutation in step up CCs
 - d.) d). forced commutation in step down CCs
- 56. The peak inverse voltage in ac to dc converter system is highest in
 - a.) a). single phase full wave mid point converter
 - b.) b). single phase full converter
 - c.) c) 3 phase bridge converter
 - d.) d). 3 phase half wave converter.
- 57.A single phase full converter feeds power to RLE load with R = 6 WL = 6 MH and E = 60 V. The ac source voltage is 230 V, 50 Hz, For continuous conduction, the average value of load current for a firing angle delay of 50 is
 - a.) a.)12.181 A
 - b.) b). 14.81 A
 - c.) c). 16.76 A
 - d.) d.) 32.40 A
- 58. Which one of the following is the Fourier transform of the signal given in fig. B if the Fourier transform of the signal in fig A is given by -

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59.

- What is 215 complement of 00011100
 - a.) 11100011
 - b.) 10001100
 - c.) 11100100
 - d.) 10000111
- 60.In C programming a expression contains relational operators,

assignment operators and arithmetic operators if parentheses is absent then execution follows

- a.) assignment, relational, arithmatic
- b.) arithmatic, relational, assignment
- c.) relational, arithmatic, assignment
- d.) assignment, arithmatic, relational
- 61.In semiconductor memory information stored in form
 - a.) binary
 - b.) hexadecimal
 - c.) octal
 - d.) ASCII
- 62.i\p to Not gate gives o/p as
 - a.) a) inversion of some bits
 - b.) b.) $2\hat{a} \in TM$ s complement of i\p
 - c.) c.) $1\hat{a}\in^{TM}s$ complement of i\p
 - d.) d.) o/p is some as i\p
- 63.A negative logic means
 - a.) a .)logic 0 and 1 are represented by a +ve voltage respective
 - b.) b). logic 0 and 1 are presented as –ve and +ve voltage
 - c.) c.)logic 0 voltage is higher than logic 1 voltage level
 - d.) d.) logic 0 voltage is lower than logic 1 voltage level
- 64.For designing D flip flop from SR FF a circuit is aloud at 01p of SR FF is
 - a.) AND
 - b.) OR
 - c.) NOR
 - d.) NOT
- 65. The transistor shown in fig is

a.) Silicon, NPN with Ic = 0.5 mAb.) Silicon PNP with Ic = 0.5 mA

- c.) Germanium PNP with IE = 0.5 mA
- d.) Germanium NPN with Ic=0.5 mA

66.A 20,000 Ohms per volt meter will deflect full-scale with a current of

- a.) 50 mA
- b.) 50 mA
- c.) 100 mA
- d.) 1000 mA
- 67.A plate modulated class –CRF power amplifier produces 100 KW of radiated power at 100 % modulation. The modulating audio amplifier supplies approximately ------ kW of this power
 - a.) a.)50
 - b.) b).33
 - c.) c).22
 - d.) d).11
- 68.An amplifier without feedback has a distortion of 15 % and gain of 40. When 10% negative feedback is applied the distortion will become
 - a.) 50 %
 - b.) b). -45 %
 - c.) c). 3%
 - d.) d). -5%
- 69.MODEM implies
 - a.) a.)Modulator at transmitting side and ditector at the receiving side
 - b.) b.)Which deals with analog signals and shows digital information
 - c.) c.)Analog to digital at transmitting side and digital to analog at a receiving side
 - d.) d).A device which deals with digital signals only
- 70. Twisted ring and ring counters are examples of
 - a.)Synchronous counters
 - b.) Asynchronous counters
 - c.) both a and b
 - d.) None of the above
- 71.Specify Non characteristic flip flop in the following
 - a.) The outputs are complement of each other
 - b.) The flip flop has two input signals
 - c.) The flip flop has two output signals
 - d.) d). The flip flop is a bistable devise with only two stable states

- 72. The voltage obtained when digital input is 001 is a 3 bit R-2R ladder DIA converter is
 - a.) VR/22
 - b.) VR/21
 - c.) VR/23
 - d.) none of the above

73. Identify NOT an octal number-

- a.) 19
- b.) b). 15
- c.) c.) 77
- d.) d.) 101

74. The set of binary digits 01000100 represent, s-

- a.) number 6810 in a pure binary computer
- b.) number 44 in 8421 BCD code
- c.) c) Both a and b
- d.) d.) None of the above
- e.) The system matrix of a continuous time system, described in the state variable form is –

75. The system is stable for all values of x and y satisfying –

- a.) a.) x < 1/2, y < 1/2
- b.) b). x < 0, y < 2
- c.) c.)x > 1/2 , y >0
- d.) d.) x < 0 , y < 1/2
- 76. The break away and break in point in the root locus for open loop transfer function G(S) H(S) = are located respectively at $\hat{a} \in \mathcal{C}$
 - a.) a). –2 and -1
 - b.) b). –2.47 and –3.77
 - c.) c.) –4.27 and –7.73
 - d.) d.) –7.73 and –4.27

77. The transfer function for the given system shown in figure is $\hat{a} \in \hat{}$

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78.

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79.

- 80. The type and order of the system whose Nyquist plot is shown in fig is
 - a.) a.)0.1 b.) b.) 1,2 c.) c.) 0,2 d.) d). 2,1 e.)

81. The overall transfer function in a second order is given by-

82.Its resonant frequency is -

- a.) 2
- b.) b.)
- c.) c).
- d.) d.) 3

83. The detection of an AM waveform in an Envelope –

- a.) a.)One side band and full amplitude carrier are needed
- b.) b.) Both side bands and full amplitude carrier are needed
- c.) c). Only two side bands are needed
- d.) d). Upper side band and part of carriers are needed
- 84.Satellite used for intercontinental communication is known as
 - a.) Comsat
 - b.) b). Dom sat
 - c.) c.) Mari sat
 - d.) d). Intelsat
- 85.Mark out non submarine cable
 - a.)TAT 7
 - b.) INTELSAT V
 - c.) ATLANTIS
 - d.))CANTAT 2
- 86. The capacity of an analog communication channel with 4kHz bandwidth and 15 dB SNR is approximately
 - a.) a). 20,000 bps
 - b.) b). 16,000 bps
 - c.) c.) 10,000 bps
 - d.) d.) 8,000 bps
- 87. The blind speed of an MTl radar can be avoided by changing the
 - a.) Carrier frequency
 - b.) Pulse repetition frequency
 - c.) c.)Antenna rotation rate

d.) d.) Transmitted power

- 88. The output voltage in a feedback series regulator circuit is regulated by controlling the
 - a.) Magnitude of the input voltage
 - b.) Gain of the feedback transistor
 - c.) Reference voltage
 - d.) Voltage drop across the series pass transistor

89.Indicate the signal not transmitted in colour TV-

- a.) Y
- b.) Q
- c.) R
- d.) I

90.As frequency of singal increases-

- a.) Directivity increases & beam width increases
- b.) Directivity & beam width decreases
- c.) Directivity increases & beam width decreases
- d.) Directivity decreases & beam width increases
- 91. The number of hardware interupts (which require an external signal to interrupt) present in on 8085 mP are
 - a.) a). 1
 - b.) b). 4
 - c.) c.) 5
 - d.) d.) 13

92. Highest priority interupt is-

- a.)INTR
- b.)RST 7.5
- c.)RST 6.5
- d.)TRAP

93.One instruction cycle means-

- a.)Time require to execute set of instructions
- b.)Time require to execute one instruction
- c. Time require to complete one operation of accessing memory, or I/o
- d. None of above
- 94. If the clock freq. is 5 mH3 how much time is required to execute on instruction of 18 T-states-

a.)3.6 msec.

- b.) 36 m sec.
- c.) 36 m sec.
- d.) 36 sec.

95.In data transfer operation which flog get affected-

- a.)zero flog
- b.)carry flog
- c.)sign flog.
- d. d.) none

96.CMP instruction comes under group -

- a.)Data transfer
- b.)Brouching operations
- c. c). Machine control operation
- d. d.) logical operations
- 97. The logic operation
 - a.) are performed in relation to content of Accemce lotor
 - b.) b).can be performed derectly with content of the register.
 - c.) c.) are performed without content of a
 - d.) d.)none of above.
- 98. What happen when PUSH instruction executed
 - a.) data retrieved from stock to register
 - b.) data from register saved on the stock.
 - c.) 16 bit address of instruction saved on stock.
 - d.) 16 bit address from stock retrieved
- 99.SIM stands for
 - a.) serial interface memory
 - b. set interrupt mosk
 - c. c.) set if minus
 - d. d.) set internal memory
- 100. Maximum clock frequency required to operate 8085
 - a. 2 MHz
 - b. 3 MHz
 - c. 6 MHz
 - d. 9 MHz
- 101. ASCII code is
 - a.) a). 7 bit
 - b.) b). 8 bit
 - c.) c.)16 bit
 - d.) d.) 32 bit.
- 102. In memory mapped I/O address lines are
 - a.) 8
 - b.) 16
 - c.) 32
 - d.) 64

- 103. The parity bit adding technique is used for
 - a.)Indexing
 - b.)Coding
 - c.)Error detection
 - d.)Controlling
- 104. A demultiplexer
 - a.)has multiple i/p and single o/p
 - b.) has single i/p and multiple o/p
 - c.) has multiple i/p and multiple o/p
 - d.) has single i/p and single o/p
- 105. Subroutines are useful
 - a.)to reduce storage requirements
 - b.) to increase programming speed and reduce storage
 - c.) most applications are same
 - d.) but increases expense
- 106. As daring goes with temerity same way clear-sighted with $\hat{a} \in \hat{}$
 - a.)Perspicacity
 - b. Impulsiveness
 - c. c.)Energy
 - d. d.)Clemency
- 107. A man who visits his friend is a $\hat{a} \in \hat{}$
 - a.)Host
 - b.)Guest
 - c.)Master
 - d. d.) Owner
- 108. Zealot is
 - a.)beginner
 - b.) Patron
 - c.) fanatic
 - d.) Murderer
- 109. Give the plural of â€⁻Mouseâ€TM â€["]
 - a.)Mouse's
 - b. b). Mice
 - c. c). Mouse
 - d. d). None

110. Find the part of speech of the underlined word $\hat{a} \in$ "Shama and Radha were playing together.

- a.)Preposition.
- b.)Noun
- c.)Conjunction.

d. d). Verb.

- 111. Which of the following is not one of the multiple names of ganesha?
 - a.) a). Vinayaka
 - b.) b). Lambodra
 - c.) c.) Ekadanta
 - d.) d.) Vighneshwara
 - e.))all of the above
- 112. If a man weighs 60 Kilograms on earth, how much will be his weight on the moon?
 - a.)50 kg
 - b.)40 kg
 - c.)20 kg
 - d.)10 kg
- 113. The only Indian star selected for waxing at the famous Madame Tussaud's wax is
 - a.)Salman Khan
 - b.)Amitabh Bachan
 - c.)ShahRukh Khan.
 - d.)Raj Kapoor
- 114. Rate of gowth of per capita income in India drops down to percent in 2000-2001-.
 - a.)5.3 percent
 - b.)3.5 percent
 - c.)4.8 percent
 - d.)8.4 percent
- 115. Ascorbic acid is the chemical name of
 - a.)Vitamin A
 - b.)Vitamin B
 - c.)Vitamin C
 - d. d.) Vitamin D
- 116. All India Muslim League was founded by
 - a.)Nawab Slimullah Khan
 - b.)Sir Mohd Iqubal
 - c. Sir syed Ahmed Khan
 - d. Moulana Shaukat Ali
- 117. Red Blood corpuscles are formed in
 - a.)Marrow
 - b. Kidney
 - c. c). Liver

- d. d). heart
- 118. The southern most tip of India is in
 - a.)Lakshadweeep
 - b.) Kanya Kumari
 - c.) c.)Andaman and Nicobar Islands
 - d.) d.)Rameswaram
- 119. The first bowler in cricket history to take 500 test wickets is
 - a.) Imran Khan
 - b.) b). Courtney Walsh
 - c.) c). Shane Warne
 - d.) d.) Muttiah Murlidharan

120. President of the National Consumer Disputes Redress al

- Commission (NCDRC) is
 - a.) Mr. D.C Wadhwa
 - b.) b). Mr. A. P Wadhwa
 - c.) c.) Mr. A. C Wadhwa
 - d.) d.) Mr. D. P Wadhwa
- 121. C.V. Raman got Nobel Prize for
 - a.)Themodynamics
 - b.) Quantum theory
 - c.) c.)Optics and spectroscopy
 - d.) d.) Nuclear Physics
- 122. First governor general of Bengal
 - a.) a). Lord Clive
 - b.) b.) Lord warren Hastings
 - c.) c.)Lord Lytton
 - d.) d.) Lord Ripon

123. The slogan "Do or Die†is associated with-

- a.) Subhash Chandra Bose
- b.) Gandhigi
- c.) Harijan
- d.) Satyagraha
- 124. Champaran is in the state of
 - a.) a). Gujarat
 - b.) b). Maharashtra
 - c.) c.) Bihar
 - d.) d). Madhya Pradesh
- 125. These tribes are found in central Asia
 - a.)Garos
 - b.)Kirghiz

b.) Lushaic.) d). Santhals

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