

BSNL JTO Examination PAPER

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) 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.dc property of the device at all operating points
  - c.) Complete ac and dc behaviour of the device at all operating points
  - 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.) infinite
  - d.) any value between 5 to 10.
  
7. A meter is shielded with a soft iron to –

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

- a.) Prevent damage from rough use
  - b.) Keep moisture out of movement
  - c.) Protect meter movement from stray magnetic fields
  - 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 –
- a.)  $Q = VI$
  - b.)  $Q = IR$
  - c.)  $Q = CV$
  - d.)  $Q = IC$
10. Silicon steel used for electrical purposes has silicon percentage of –
- a.) 0.5
  - b.) 2.5
  - c.) 3.4
  - d.) None
11. The feature of VTM is its –
- a.) Low input impedance
  - b.) Low power consumption
  - c.) The ability to measure wider ranges of voltage and resistances
  - d.) None
12. In an N-type semiconductor, 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.) Is higher than the centre of the energy gap
  - d.) Can be anywhere depending upon the doping concentration
13. A JFET can operate in –
- a.) depletion and enhancement model
  - b.) depletion mode only
  - c.) enhancement mode only
  - d.) neither enhancement nor depletion mode

14. Consider the following semiconductor diodes –

- a.) Germanium diode
- b.) Silicon diode
- c.) Tunnel diode
- 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. 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. CE output characteristics
- c.) CB transfer characteristics
- 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.) none

18. The SCR is often employed as a –

- a.) Source-controlled switch
- b.) Drain-controlled switch
- c.) Gate-controlled switch
- 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. 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 optoelectronic conversion efficiency
- c.) Both a and b

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

d). None

21. When the network 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.)  $4I$
- d.)  $2I$

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.)  $1\Omega$
- b.)  $0.5\Omega$
- c.)  $2\Omega$
- d.)  $1.5\Omega$

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.) 1 and 4
- d.) 2 and 4

24. When in the network shown in the given fig, the switch  $K$  is closed at  $t = 0$  with the capacitor uncharged then the value for  $i$  at  $t = 0^+$  will be –

- a.)  $100 \text{ amp./sec.}$
- b.)  $-100 \text{ amp./sec.}$
- c.)  $1000 \text{ amp./sec.}$
- d.)  $-1000 \text{ amp./sec.}$

25. For the circuit shown in the given figure, the voltage  $V_{AB}$  is –

- a.)  $6V$
- b.)  $10V$
- c.)  $25V$
- 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 –

- a.)  $4V, 2\Omega$
- b.)  $4V, 4\Omega$
- c.)  $8V, 2\Omega$

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

d.) 8V, 4W

27. The effective resistance between the terminals A and B in the circuit shown in the fig. is –

R

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). 6A

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 Faraday's induction phenomenon, a changing magnetic field is accompanied by an electric field. Which of the following equation or equations represents it-

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 ) L is halved

32. When a particular mode is excited in a waveguide there appears an extra electric component in the direction of propagation . The resulting mode is

a. ) Longitudinal electric

b. ) Transverse electromagnetic

c. ) Transverse magnetic

d ). Transverse electric

33. When for a transmission line the open circuit and short circuit impedance are 20W and 5 W

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

respectively then the characteristic impedance of the line is -

- a. ) 100 Ohms
- b. ) 50 Ohms
- c. ) 25 Ohms
- 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. ) infinity and 1
- c. ) infinity and 0
- 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 / m<sup>2</sup>) D is –

- a. ) 0.0833
- b. ) 0.833
- c. ) 1.666
- d. ) 10

36. For the dominant mode in a rectangular waveguide 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
- d. ) Rhombic antennas

39. One of the following instrument which may be used to measure the optical activity of compounds is

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

–

- a. ) Infrared spectrometer
- b. ) Atomic absorption spectrometer
- c. ) Polarimeter
- d. ) Fluoroscope

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 –

- 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. ) much larger than the time period of the input square wave.
- c. ) equal to the time period of the input square wave.
- 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. ) 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.

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

46. If the differential pressure in restriction type flow measuring devices is then the flow will be proportional to –
47. When a system is represented by the transfer function then the dc gain of this system is –
- 1
  - 2
  - 5
  - 10
48. Silicon based semiconductor device called thyristor was first fabricated by –
- Jell laboratories in U.S.A
  - Maxwell laboratories in U.S.A
  - Bell laboratories in U.S.A
  - GEC laboratories in U.S.A
49. A semiconductor based temperature transducer has a temperature coefficient of  $-2500\text{mV}/^\circ\text{C}$ . This transducer is indeed a –
- Thermistor
  - Forward biased pn junction diode
  - Reverse biased pn junction diode
  - FET
50. Which of the followings pairs of Telemetry situations and Modulation techniques and conditions is correctly matched-
- Pulse amplitude modulation Low amplitude signals
  - Pulse position modulation For short distance when power is enough
  - Pulse width modulation Power to be spent in telemetry is required to be low
  - Pulse code modulation. Minimisation of interference effects.
51. The SCR ratings  $di/dt$  in A/m sec and  $dv/dt$  in n/m sec, may vary, respectively between-
- 20 to 500, 10 to 100
  - both 20 to 500
  - both 10 to 100
  - 50 to 300, 20 to 500
52. Match the given controlled rectifiers with 50 Hz supply
- 1 phase full converter with source inductance
  - 3 phase full converter
  - 3 phase semiconductor
  - 3 phase halls wave converter
53. 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). forced commutation in step down CCs

54. The peak inverse voltage in ac to dc converter system is highest in-

- a). single phase full wave mid point converter
- b). single phase full converter
- c) 3 phase bridge converter
- d). 3 phase half wave converter.

55. A single phase full converter feeds power to RLE load with  $R = 6 \Omega$ ,  $L = 6 \text{ mH}$  and  $E = 60 \text{ V}$ . The ac source voltage is 230 V, 50 Hz, For continuous conduction, the average value of load current for a firing angle delay of  $50^\circ$  is

- a.) 12.181 A
- b). 14.81 A
- c). 16.76 A
- d.) 32.40 A

56. 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 -

57. What is 2's complement of 00011100-

- a.) 11100011
- b.) 10001100
- c.) 11100100
- d.) 10000111

58. In C programming an expression contains relational operators, assignment operators and arithmetic operators if parentheses is absent then execution follows

- a.) assignment, relational, arithmetic
- b.) arithmetic, relational, assignment
- c.) relational, arithmetic, assignment
- d.) assignment, arithmetic, relational

59. In semiconductor memory information stored in form-

- a.) binary
- b.) hexadecimal
- c.) octal
- d.) ASCII

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

60.  $i\backslash p$  to Not gate gives o/p as-

- a.) inversion of some bits
- b.) 2's complement of  $i\backslash p$
- c.) 1's complement of  $i\backslash p$
- d.) o/p is same as  $i\backslash p$

61. A negative logic means-

- a.) logic 0 and 1 are represented by a +ve voltage respective
- b.) logic 0 and 1 are presented as -ve and +ve voltage
- c.) logic 0 voltage is higher than logic 1 voltage level
- d.) logic 0 voltage is lower than logic 1 voltage level

62. 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

63. The transistor shown in fig is

- a.) Silicon, NPN with  $I_c = 0.5$  mA
- b.) Silicon PNP with  $I_c = 0.5$  mA
- c.) Germanium PNP with  $I_E = 0.5$  mA
- d.) Germanium NPN with  $I_c = 0.5$  mA

64. 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

65. 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.) 50
- b.) 33
- c.) 22
- d.) 11

66. An amplifier without feedback has a distortion of 15 % and gain of 40. When 10% negative feedback

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

is applied the distortion will become-

- a.) 50 %
- b). -45 %
- c). 3%
- d). -5%

67. MODEM implies-

- a.) Modulator at transmitting side and detector at the receiving side
- b.) Which deals with analog signals and shows digital information
- c.) Analog to digital at transmitting side and digital to analog at a receiving side
- d.) A device which deals with digital signals only

68. Twisted ring and ring counters are examples of –

- a.) Synchronous counters
- b.) Asynchronous counters
- c.) both a and b
- d.) None of the above

69. 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.) The flip flop is a bistable device with only two stable states

70. The voltage obtained when digital input is 001 is a 3 bit R-2R ladder DAC converter is-

- a.)  $V_R/22$
- b.)  $V_R/21$
- c.)  $V_R/23$
- d.) none of the above

71. Identify NOT an octal number-

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

72. The set of binary digits 01000100 represent's-

- a.) number 6810 in a pure binary computer
- b.) number 44 in 8421 BCD code
- c) Both a and b
- d.) None of the above

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

73. The system matrix of a continuous time system, described in the state variable form is –

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

- a.)  $x < 1/2, y < 1/2$
- b.)  $x < 0, y < 2$
- c.)  $x > 1/2, y > 0$
- d.)  $x < 0, y < 1/2$

74. The break away and break in point in the root locus for open loop transfer function  $G(S) H(S) =$  are located respectively at –

- a.)  $-2$  and  $-1$
- b.)  $-2.47$  and  $-3.77$
- c.)  $-4.27$  and  $-7.73$
- d.)  $-7.73$  and  $-4.27$

75. The transfer function for the given system shown in figure is –

76. The type and order of the system whose Nyquist plot is shown in fig is-

- a.) 0,1
- b.) 1,2
- c.) 0,2
- d.) 2,1

77. The overall transfer function in a second order is given by-  
Its resonant frequency is -

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

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

- a.) One side band and full amplitude carrier are needed
- b.) Both side bands and full amplitude carrier are needed
- c.) Only two side bands are needed
- d.) Upper side band and part of carriers are needed

79. Satellite used for intercontinental communication is known as –

- a.) Comsat
- b.) Dom sat
- c.) Mari sat
- d.) Intelsat

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

80. Mark out non submarine cable –

- a. JAT – 7
- b.) INTELSAT V
- c.) ATLANTIS
- d. )CANTAT 2

81. The capacity of an analog communication channel with 4kHz bandwidth and 15 dB SNR is approximately-

- a). 20,000 bps
- b). 16,000 bps
- c.) 10,000 bps
- d.) 8,000 bps

82. The blind speed of an MTI radar can be avoided by changing the-

- a.) Carrier frequency
- b.) Pulse repetition frequency
- c. )Antenna rotation rate
- d.) Transmitted power

83. 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

84. Indicate the signal not transmitted in colour TV-

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

85. As frequency of signal increases-

- a.) Directivity increases & beam width increases
- b.) Directivity & beam width decreases
- c.) Directivity increases & beam width decreases
- d.) Directivity decreases & beam width increases

86. The number of hardware interrupts (which require an external signal to interrupt) present in on 8085 mP are

- a). 1

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

- b). 4
- c.) 5
- d.) 13

87. Highest priority interrupt is-

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

88. 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

89. If the clock freq. is 5 MHz how much time is required to execute an instruction of 18 T-states-

- a. )3.6 msec.
- b.) 36 m sec.
- c.) 36 m sec.
- d.) 36 sec.

90. In data transfer operation which flag get affected-

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

91. CMP instruction comes under group -

- a. )Data transfer
- b. )Branching operations
- c.) Machine control operation
- d.) logical operations

92. The logic operation-

- a.) are performed in relation to content of Accumulator
- b.) can be performed directly with content of the register.
- c.) are performed without content of a
- d.) none of above.

93. What happens when PUSH instruction is executed -

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

- 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

94. SIM stands for-

- a.) serial interface memory
- b.) set interrupt mask
- c.) set if minus
- d.) set internal memory

95. Maximum clock frequency required to operate 8085-

- a.) 2 MHz
- b.) 3 MHz
- c.) 6 MHz
- d.) 9 MHz

96. ASCII code is-

- a.) 7 bit
- b.) 8 bit
- c.) 16 bit
- d.) 32 bit.

97. In memory mapped I/O address lines are-

- a.) 8
- b.) 16
- c.) 32
- d.) 64

98. The parity bit adding technique is used for -

- a.) Indexing
- b.) Coding
- c.) Error detection
- d.) Controlling

99. 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

100. Subroutines are useful-

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

- a.) to reduce storage requirements
- b.) to increase programming speed and reduce storage
- c.) most applications are same
- d.) but increases expense

101. As daring goes with temerity same way clear-sighted with –

- a.) Perspicacity
- b.) Impulsiveness
- c.) Energy
- d.) Clemency

102. A man who visits his friend is a –

- a.) Host
- b.) Guest
- c.) Master
- d.) Owner

103. Zealot is –

- a.) beginner
- b.) Patron
- c.) fanatic
- d.) Murderer

104 Give the plural of 'Mouse' –

- a.) Mouse's
- b.) Mice
- c.) Mouse
- d.) None

105. Find the part of speech of the underlined word –

Shama and Radha were playing together.

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

106. Which of the following is not one of the multiple names of ganesha?

- a.) Vinayaka
- b.) Lambodra
- c.) Ekadanta
- d.) Vighneshwara

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)



e. )all of the above

107. 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

108. 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

109 Rate of growth 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

110. Ascorbic acid is the chemical name of-

- a. )Vitamin A
- b. )Vitamin B
- c. )Vitamin C
- d.) Vitamin D

111. All India Muslim League was founded by-

- a. )Nawab Slimullah Khan
- b. )Sir Mohd Iqbal
- c.) Sir syed Ahmed Khan
- d.) Moulana Shaukat Ali

112. Red Blood corpuscles are formed in-

- a. )Marrow
- b.) Kidney
- c). Liver
- d). heart

113. The southern most tip of India is in-

- a. )Lakshadweep
- b.) Kanya Kumari

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

- c. )Andaman and Nicobar Islands
- d. )Rameswaram

114 The first bowler in cricket history to take 500 test wickets is-

- a.) Imran Khan
- b.) Courtney Walsh
- c.) Shane Warne
- d.) Muttiah Murlidharan

115 President of the National Consumer Disputes Redressal Commission (NCDRC) is-

- a.) Mr. D.C Wadhwa
- b.) Mr. A. P Wadhwa
- c.) Mr. A. C Wadhwa
- d.) Mr. D. P Wadhwa

116. C.V. Raman got Nobel Prize for-

- a. )Thermodynamics
- b.) Quantum theory
- c. )Optics and spectroscopy
- d.) Nuclear Physics

117. First governor general of Bengal-

- a.) Lord Clive
- b.) Lord warren Hastings
- c. )Lord Lytton
- d.) Lord Ripon

118. The slogan "Do or Die" is associated with-

- a.) Subhash Chandra Bose
- b.) Gandhiji
- c.) Harijan
- d.) Satyagraha

119. Champaran is in the state of-

- a.) Gujarat
- b.) Maharashtra
- c.) Bihar
- d.) Madhya Pradesh

120. These tribes are found in central Asia-

- a. )Garos

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)

- b. )Kirghiz
- c.) Lushai
- d). Santhals

ENGINEERS INSTITUTE OF INDIA

**ENGINEERS INSTITUTE OF INDIA**

India's Best Institute for IES, GATE & PSU's

28B/7 JIASARAI NEAR IIT NEW DELHI-16

[www.engineersinstitute.com](http://www.engineersinstitute.com)