

# <http://isbigdeal.blogspot.com> BSNL JTO 2009 QUESTIONS

If the voltage applied across a capacitance is triangular in waveform then the waveform of the current is-a) Triangular b) Trapezoidal c) Sinusoidal d) Rectangular Answer is : **-Rectangular**

1. 1. One of the following statement which is true for relative dielectric constant is a) It is dimensionless b) It is not equal to unity for vacuum c) It's value for all substances is less than one d) None Answer is : **-It is dimensionless**

2. 2. Pure metals generally have-a) high conductivity and low temperature coefficient b) high conductivity and large temperature coefficient c) low conductivity and zero temperature coefficient d) low conductivity and high temperature coefficient Answer is : **-high conductivity and large temperature coefficient**

3. 3. For small size, high frequency coils, the most common core material is a) Air b) Ferrite c) Powdered iron d) Steel Answer is : **-Air**

4. 4. For an abrupt junction Varactor diode, the dependence of device capacitance (C) on applied reverse bias (V) is given by-a)  $C \propto V^{1/3}$  b)  $C \propto V^{-1/3}$  c)  $C \propto V^{1/2}$  d)  $C \propto V^{-1/2}$  Answer is : **- $C \propto V^{-1/3}$**

4. 5. A superconductor is a) A material showing perfect conductivity and Meissner effect below a critical temperature b) A conductor having zero resistance c) A perfect conductor with highest diamagnetic susceptibility d) A perfect conductor which becomes resistive when the current density through it exceeds a critical value Answer is : **-A material showing perfect conductivity and Meissner effect below a critical temperature**

5. 6. When a semiconductor based temperature transducer has a temperature coefficient of  $-2500 \text{ mV}/^\circ\text{C}$  then this transducer is indeed a) Thermistor b) Forward biased pn junction diode c) Reverse biased pn junction diode d) FET Answer is : **-Forward biased pn junction diode**

6. 7. The location of lightning arrester is a) Near the transformer b) Near the circuit breaker c) Away from the transformer d) None Answer is : **-Near the transformer**

7. 8. Time constant of an RC circuit increases if the value of the resistance is a) Increased b) Decreased c) Neither a nor b d) Both a and b Answer is : **-Increased**

8. 9. Intrinsic semiconductors are those which a) Are available locally b) Are made of the semiconductor material in its purest form c) Have more electrons than holes d) Have zero energy gaps Answer is : **-Are made of the semiconductor material in its purest form**

9. 10. The primary control on drain current in a JFET is exerted by a) Channel resistance b) Size of depletion regions c) Voltage drop across channel

- d) Gate reverse bias Answer is : -**Gate reverse bias**
10. 11. The electrical conductivity of metals which is expressed in ohm<sup>-1</sup> m<sup>-1</sup> is of the order of a) 10<sup>10</sup> b) 10<sup>5</sup> c) 10<sup>-4</sup> d) 10<sup>-6</sup> Answer is : -**10<sup>5</sup>**
11. 12. When biased correctly, a zener diode – a) acts as a fixed resistance b) has a constant voltage across it c) has a constant current passing through it d) never overheats Answer is : -**has a constant voltage across it**
12. 13. The current amplification factor  $\alpha_{dc}$  is given by – a)  $I_C/I_E$  b)  $I_C/I_B$  c)  $I_B/I_C$  d)  $I_B/I_C$  Answer is : - **$I_C/I_E$**
13. 14. Compared to bipolars, FETs have-a) high input impedance b) low input impedance c) same input impedance d) none Answer is : -**high input impedance**
14. 15. The source-drain channel of JFET is a) ohmic b) bilateral c) unilateral d) both a and b Answer is : -**both a and b**
15. 16. diac is equivalent to a a) Pair of SCRs b) Pair of four layer SCRs c) Diode and two resistors d) Triac width Answer is : -**Pair of four layer SCRs**
16. 17. When a sample of N type semiconductor has electron density of 17.  $6.25 \times 10^{11}$  /cm<sup>3</sup> at 300K and if the intrinsic concentration of carriers in this sample is  $2.5 \times 10^{13}$ /cm<sup>3</sup> then the hole density will be – a) 10<sup>6</sup>/cm<sup>3</sup> b) 10<sup>3</sup>/ cm<sup>3</sup> c) 10<sup>10</sup>/ cm<sup>3</sup> d) 10<sup>12</sup>/ cm<sup>3</sup> Answer is : -**10<sup>3</sup>/ cm<sup>3</sup>**
1. 18. The statement 'In any network of linear impedances, the current flowing at any point is equal to the algebraic sum of the currents caused to flow at that point by each of the sources of emf taken separately with all other emf's reduced to zero' represents a) Kirchhoff's law b) Norton's theorem c) Thevenin's theorem d) Superposition theorem Answer is : -**Superposition theorem**
2. 19. One of the following modes which has the characteristics of attenuation becoming less as the frequency is increased and is attractive at microwave frequencies of circular cylindrical wave guides is – a) TE<sub>11</sub> mode b) TM<sub>01</sub> mode c) TE<sub>01</sub> mode d) Higher order mode Answer is : -**TE<sub>01</sub> mode**
3. 20. A two-port network is symmetrical if – a)  $z_{11}z_{22} - z_{12}z_{21} = 1$  b)  $h_{11}h_{22} - h_{12}h_{21} = 1$  c)  $AD - BC = 1$  d)  $y_{11}y_{22} - y_{12}y_{21} = 1$  Answer is : -**AD - BC = 1**
4. 21. For transmission line load matching over a range of frequencies, it is best to use aa) balun b) broad band directional coupler c) double stub d) single stub of adjustable position Answer is : -**double stub**
5. 22. The poles and zeros of a driving point function of a network are simple and interlace on the negative real axis with a pole closest to the origin. It can be realised a) by an LC network b) as an RC driving point impedance c) as an RC driving point admittance d) only by an RLC network Answer is: -**only by an RLC network**
6. 23. Poles and zeros of a driving point function of a network are simple and interlace on the  $j\omega$  axis. The network consists of elements – a) R and C b) L and C c) R and L d) R, L and C Answer is : -**L and C**
7. 24. For a two port reciprocal network, the output open circuit voltage divided by the input current is equal to – a) B b)  $Z_{12}$  c) — d)  $h_{12}$  Answer is : - **$Z_{12}$**

8. 25. In a short electric doublet the radiation properties are so that-a) The induction field diminishes as the square root of the distance and is only appreciable in the vicinity of the conductor. b) In the radiation, magnetic field is minimum when the current is maximum. c) The radiation resistance of a short doublet antenna is extremely high. d) Mean rate of power through a unit area of spherical sphere surrounding this doublet is proportional to the square of the elemental

length, other factors remaining constant. Answer is : **-Mean rate of power through a unit area of spherical sphere surrounding this doublet is proportional to the square of the elemental length, other factors remaining constant.**

1. 26. The frequency modulated (FM) radio frequency range is nearly a) 250 –300 MHz b) 150 – 200 MHz c) 90 – 105 MHz d) 30-70 MHz Answer is : **-90 – 105 MHz**

2. 27. In an underground cable the distortion in the transmission of carrier frequency can be eliminated by using a) Inductive loading b) Resistive loading c) Capacitive loading d) Shielding Answer is : **-Inductive loading**

3. 28. The characteristic impedance of a transmission line with inductance 0.294 mH /m and capacitance 60 pF/m is a) 49 W b) 60 W c) 70 W d) 140 W Answer is : **-70 W**

4. 30. For a quarter wavelength ideal transmission line of characteristic impedance 50 ohms and load impedance 100 ohms, the input impedance will be – a) 25W b) 50W c) 100W d) 150W Answer is : **-25W**

5. 31. The depth of penetration or skin depth for an electromagnetic field of frequency 'f' in a conductor of resistivity  $r$  and permeability  $m$  is-a) inversely proportional to  $r$  and  $f$  and directly proportional to  $m$  b) directly proportional to  $r$  and inversely proportional to  $f$  and  $m$  c) directly proportional to  $f$  and inversely proportional to  $r$  and  $m$  d) inversely proportional to  $r$  and  $m$  and directly proportional to  $f$  Answer is : **-directly proportional to  $r$  and inversely proportional**

**to  $f$  and  $m$**

1. 32. When an antenna has a gain of 44dB then assuming that the main beam of the antenna is circular in cross-section the beam width will be -a) 0.44560 b) 1.44560 c) 2.44560 d) 3.44560 Answer is : **-2.44560**

2. 33. Lens antennas used for microwaves are usually made of a) Polystyrene b) Glass of low refractive index c) Paraboloid surfaces d) Dielectric media having large refractive index Answer is : **-Polystyrene**

3. 34. One of the following types of instrument which is an electrometer is - a) Electrodynamometer b) PMMC c) Electrostatic d) Moving iron Answer is : **-Electrostatic**

4. 35. When an ac current of 5A and dc current of 5A flow simultaneously through a circuit then which of the following statement is true ? a) An ac

ammeter will read less than 10A but more than 5A b) An ac ammeter will read only 5A c) A dc ammeter will read 10A d) A dc ammeter will read zero Answer is : **-An ac ammeter will read less than 10A but more than 5A**

5. 36. When Q factor of a circuit is high, then a) power factor of the circuit is high b) impedance of the circuit is high c) bandwidth is large d) none of these Answer is : **-none of these**

□ .37. The resolution of a logic analyser is a) the maximum number of input channels

□ .b) the minimum duration of the glitch it can capture c) it's internal clock period d) the minimum amplitude of input signal it can display Answer is : **-the minimum amplitude of input signal it can display**

6. 38. A memoryless system is – a) causal b) not causal c) nothing can be said d) none Answer is : **-causal**

7. 39. An air capacitor is a – a) time variant b) active device c) time invariant d) time invariant and passive device Answer is : **-time invariant and passive device**

8. 40. Thermistors are made of a) pure metals b) pure insulators c) sintered mixtures of metallic oxides d) pure semiconductor Answer is : **-sintered mixtures of metallic oxides**

9. 41. Pirani gauge is used to measure – a) very low pressures b) high pressures c) pressures in the region of 1 atm d) fluid flow Answer is : **-very low pressures**

10. 42. These circuits converts input power at one frequency to output power at a different frequency through one stage conversion – a) AC voltage controllers b) Cyclo converters c) Phase controlled rectifiers d) Inverters Answer is : **-Cyclo converters**

□ .43. In a forward voltage Triggering thyristor changes from – a) off state to on state

□ .b) on state to off state c) on state to on state d) off state to off state Answer is : **-off state to on state**

11. 44. A thyristor, when triggered, will change from forward blocking state to conduction state if its anode to cathode voltage is equal to a) peak repetitive off state forward voltage b) peak working off state forward voltage c) peak working off state reverse voltage d) peak non-repetitive off state forward voltage Answer is : **-peak working off state forward voltage**

12. 45. Gate characteristic of a thyristor-a) is a straight line passing through origin b) is of the type  $V_g = a + bI_g$  c) is a curve between  $V_g$  and  $I_g$  d) has a spread between two curves of  $V_g - I_g$  Answer is : **-has a spread between two curves of  $V_g - I_g$**

13. 46. A four quadrant operation requires-a) two full converters in series b) two full converters connected back to back c) two full converters connected in parallel d) two semi converters connected back to back Answer is : **-two full converters connected back to back**

14. 47. If for a single phase half bridge inverter, the amplitude of output voltage is  $V_s$  and the output power is  $P$ , then their corresponding values for a single phase full bridge inverter are – a)  $V_s, P$  b)  $V_s/2, P$  c)  $2V_s, 2P$  d)  $2V_s, P$

Answer is : **-2Vs, 2P**

15. 48. In an enhancement type MOSFET the output V-I characteristics has –  
a) only an ohmic region b) only a saturation region c) only ohmic region at 10 W voltage value followed by a saturation region at higher voltages d) an ohmic region at large voltage values preceded by a saturation region at lower voltages

Answer is : **-only ohmic region at 10 W voltage value followed by a saturation region at higher voltages**

1. 49. The energy gap in a semiconductor a) increases with temperature b) remains constant c) slightly increase with temperature d) decrease with temperature Answer is : **-decrease with temperature**

2. 50. In an electronic circuit matching means a) connecting a high impedance directly to low impedance b) selection of components which are compatible c) transferring maximum amount of signal between different kinds of circuits. d) RC coupled stages Answer is : **-transferring maximum amount of signal between different kinds of circuits.**

3. 51. P channel FETs are less superior than N channel FETs because a) They have higher input impedance b) They have high switching time c) They consume less power d) Mobility of electrons is greater than that of holes Answer is : **-Mobility of electrons is greater than that of holes**

4. 52. Small increase in temperature in the CE connected transistor is the -a) Increase in ICEO b) Increase in ac current gain c) Decrease in ac current gain d) Increase in output resistance Answer is : **-Increase in ICEO**

5. 53. An amplifier has a band width of 20 KHz and a midband gain of 50 without feedback. If a negative feedback of 1% is applied then bandwidth with feedback is a) 13. 3 KHz b) 30KHz c) 10KHz d) 40KHz Answer is : **-30KHz**

54. The output of a class B amplifier  
a) is distortion free b) consists of positive half cycles only c) is like the output of a full wave rectifier d) comprises short duration current pulses Answer is : **- consists of positive half cycles only**

6. 55. An amplifier with negative feedback a) lowers its lower 3 dB frequency b) raises its upper 3 dB frequency c) increases its bandwidth d) all of the above Answer is : **-all of the above**

7. 56. What changes would be necessary in block C if FM signals are to be received a) Block becomes redundant b) A FM detector would be required c) A high frequency signal generator 1d) An additional local oscillator will be needed Answer is : **-A FM detector would be required**

8. 57. The main disadvantage of Diode-Transistor logic (DTL) is its-a) greater speed b) slower speed c) average speed d) none of the above Answer is : **-slower speed**

9. 58. Time delay  $Dt$  in digital signals in an SIS O shift register is given by –  
a)  $Dt = N \cdot Fc$  b)  $Dt = N \cdot 1/Fc$  c)  $Dt = 1/N \cdot Fc$  d)  $Dt = N \cdot 1/Fc$  Answer is : **- $Dt = N \cdot 1/Fc$**

10. 59. The output  $Q_n$  is 1 in a JK flip flop and it does not change when clock pulse is applied) The possible combination of  $J_n$  and  $K_n$  can be – ( $y$  denotes

don't care) a) y and 0 b) y and 1 c) 0 and y d) 1 and y Answer is : **-y and 0**  
11. 60. Basic memory cell of dynamic RAM consists of – a) a flip flop b) a transistor acting as a capacitor c) a transistor d) a capacitance Answer is : **-a transistor acting as a capacitor**

12. 61. The 2's complement of 10002 is – a) 0111 b) 0101 c) 1000 d) 0001 Answer is : **-1000**

13. 62. Master slave flip-flop is made up of – a) two flip flops connected in series b) two flip flops connected in parallel c) a debouncer circuit d) a-D- latch Answer is : **-two flip flops connected in series**

14. 63. Number of nybbles making one byte is – a) 2 b) 4 c) 8 d) 16 Answer is : **-2**

15. 64. The intrinsic impedance of free space-a) is independent of frequency b) decreases with increase of frequency c) increases with increase of frequency d) varies as square root of frequency Answer is : **-is independent of frequency**

16. 65. A system consists of 12 poles and 2 zeroes. Its high frequency asymptote in its magnitude plot has a slope of a)  $-200$  dB/decade b)  $-240$  dB/decade c)  $-230$  dB/decade d)  $-320$  dB/decade Answer is : **--200 dB/decade**

17. 66. Considering the conditions

1. High loop gain 2. Less ringing 3. Greater damping 4 Negative dB gain margin System stability requirements would include?

a) 1 and 3 b) 1, 2 and 3 c) 1 and 4 d) 2, 3 and 4 Answer is : **-2, 3 and 4**

1. 67. In the equatorial plane only Geosynchronous satellite are launched because it is the only plane which provides – a) 24 hour orbit b) stationary satellite c) global communication d) zero-gravity environs Answer is : **-stationary satellite**

2. 68. Radio Broadcasting is an example of – a) space multiplexing b) time multiplexing c) frequency multiplexing d) none of the above Answer is : **-frequency multiplexing**

3. 69. PAM signals can be demodulation by using a – a) Low pass filters (LPE) alone b) A Schmitt trigger followed by a LPF c) A differentiator followed by a LPF d) A clipper circuit by a LPF Answer is : **-A clipper circuit by a LPF**

4. 70. In an FDM receiver channels can be separated by using – a) AND gates b) Band pass c) differentiation d) Integration Answer is : **-AND gates**

71. The most common modulation system used for telegraphy is-a) frequency shift keying b) two – tone modulation c) pulse code modulation d) single tone modulation Answer is : **-frequency shift keying**

5. 72. Use of varactor diode in generation of modulated segial bea) FM generation only b) 100AM generation only c) PM generation only d) both PM and AM generation Answer is : **-FM generation only**

6. 73. In colour picture tube shadow mask is used to-a) reduce x-ray emission b) ensure that each beam strikes only its own dots c) increase screen

brightness d) provide degaussing for the screen Answer is : **-increase screen brightness**

7. 74. The circuit that separates composite video waveform from the sync pulses is-a) the keyed AGC amplifier b) a clipper c) an integrator d) a sawtooth current Answer is : **-a sawtooth current**

8. 75. Band width of microwaves is-a) 1GHz -103 GHz b) 1GHz -100 GHz c) 1 GHz -10 GHz d) 1 GHz - 106 GHz Answer is : **-1GHz -103 GHz**

9. 76. In transverse Magnetic mode-a) no electric line is in direction of propagation b) no magnetic line is in direction of propagation c) both magnetic & electric lines are in direction of propagation d) neither magnetic nor electric lines in direction of propagation Answer is : **-no magnetic line is in direction of propagation**

10. 77. Signal transmission in sky wave propagation is due to – a) Refraction of wave b) Reflection of wave c) Propagation through Ionosphere d) None

Answer is : **-Refraction of wave**

1. 78. According to Barkhausen Criterion Phase shift of signal should be – a) 6000 b) 9000 c) 18000 d) 36000 Answer is : **-3600**

2. 79. The transmission does not have a) Partition noise b) Flicker noise c) resistance d) Shot noise Answer is : **-Partition noise**

3. 80. Varactor diode has non linearity of a) capacitance b) Inductance c) Resistance d) Is a linear device Answer is : **-capacitance**

4. 81. Noise figure is calculated as – a) i/p signal to noise ratio X o/p signal to noise ratio b) i/p S/N Ratio / O/P S/N Ratio c) i/p S/N Ratio / O/P S/N Ratio X 100 d) i/p S/N Ratio + O/P S/N Ratio Answer is : **-i/p S/N Ratio / O/P S/N Ratio**

5. 82. You can determine quickly the effect of adding poles and zeros by – a) Nichols chart b) Nyquist plot c) Bode plot d) Root locus. Answer is : **-Bode plot**

6. 83. The polar plot of  $G(S) = \frac{1}{s^2 + 5s + 1}$  intercepts real axis at  $\omega = \omega_0$ . Then, the real part and  $\omega_0$  are given by-a) -5, 1 b) -2.5, 1 c) -5, 0.5 d) -5, 2

Answer is : **-5, 1**

6. 84. Laplace transform  $F(s)$  of a function  $f(t)$  is given by  $F(s) = \frac{10s(s+7)}{(s+1)(s+8)(s+10)}$  The initial and final values of  $f(t)$  will be respectively-a) zero and 1 b) zero and 10 c) 10 and zero d) 70 and 80 Answer is : **-10 and zero**

7. 85. A satellite link uses different frequencies for receiving and transmitting in order to – a) avoid interference from terrestrial microwave links b) avoid interference between its powerful transmitted signals and weak incoming signal c) minimize free-space losses d) maximize antenna gain Answer is : **-avoid interference between its powerful transmitted signals and weak incoming signal**

8. 86. The first determining factor in selecting a satellite system is its-a) EIRP b) Antenna size c) Coverage area d) Antenna gain Answer is : **-Coverage area**

9. 87. Equalizing pulses in TV are sent during-a) horizontal blanking b) vertical blanking c) the serrations d) the horizontal retrace Answer is : **-vertical blanking**

10. 88. The son seems to have ——— from his father a somewhat gloomy and moody manner-a) washed b) inherited c) admired d) attempt Answer is : **-inherited**

11. 89. Essayist works with words as sculptor with

12. a) water b) stone c) air d) hills Answer is : **-stone**

13. 90. What is a collection of sheep called ?a) bunch b) flock c) herd d) comet Answer is : **-flock**

14. 91. Join these sentences meaningfully by choosing the correct alternative from the following : You can buy a book. You can read it. a) and b) nor c) either d) neither Answer is : **-and**

15. 92. What is the opposite of Asperity – a) gentility b) superiority c) kindness d) clarity Answer is : **-superiority**

16. 93. The Election Commission functions under-a) Ministry of Home Affairs b) Ministry of Law c) Prime Minister's Secretariat d) None of these Answer is : **-None of these**

17. 94. Article 352 of Indian Constitution needs to be revoked in case-a) President's Rule is to be imposed b) Emergency is declared c) Services of a Government servant are to be terminated without any enquiry d) A political party of national level is to be banned Answer is : **-Emergency is declared**

18. 95. Radio-activity was first discovered by-a) Becquerel b) Madam Curie c) Rutherford d) Jenner Answer is : **-Becquerel**

19. 96. Ninth Plan in India ranges from-a) 1995-2000 b) 1996-2001 c) 1997-2002 d) 1998-2003 Answer is : **-1997-2002**

20. 97. How much electricity does India propose to generate through nuclear power by the year 2000 AD? a) 5,000 MW b) 10,000 MW c) 15,000 MW d) 20,000 MW Answer is : **-10,000 MW**

21. 98. In which year did the fall of Bastille take place?a) 1769 b) 1789 c) 1889 d) 1869 Answer is : **-1789**

22. 99. To form a quorum how many members of the Lok Sabha or Rajya Sabha should be present? a) 1/10th of total membership b) 1/6th of total membership c) 1/4th of total membership d) 1/5th of total membership Answer is : **-1/10th of total membership**

23. 100. How many countries are non-permanent members of the Security Council?

24. a) 6 b) 7 c) 9 d) 10 Answer is : **-10** 101. The International Date Line is represented by-a) 1000meridian b) 000 meridian c) 1800meridian d) 900 meridian Answer is : **-1800 meridian**

25. 102. India's first satellite was launched from-a) Sriharikota b) Cape Kennedy c) Bangalore d) A Soviet cosmodrome Answer is : **-A Soviet cosmodrome**

26. 103. Name the author of the famous book "Politics"-a) Aristotle b) Socrates c) Plato d) None of them Answer is : **-Aristotle**



104. "Guernica" is Picasso's painting on-a) The Spanish Civil War b) The American Civil War c) The French Revolution d) The Russian Revolution Answer is :-**The Spanish Civil War**

105. The object of the Supreme Court's Keshvanand Bharati ruling is a) To put a limit on Parliament's amendatory powers b) To give unlimited powers to Parliament to amend the Constitution c) To give precedence to Directive Principles over Fundamental Rights d) None of these Answer is :-**To put a limit on Parliament's amendatory powers**

106. Which country in July '99 officially announced mastering of indigenously developed neutron bomb technology? a) N. Korea b) France c) India d) China Answer is :-**China**

107. Shifting cultivation is commonly used in which of the following states?

- a) Tamil Nadu
- b) Maharashtra
- c) Jammu and Kashmir
- d) Nagaland

Answer is :-**Nagaland**

108) The polar plot of  $G(S) = 10/s(s+1)^2$  intercepts real axis at  $w = w_0$ . Then, the real part and  $w_0$  are given by?

Answer is :-**-5, 1**

BSNL JTO 2009 – Answerkey

#### SET D

Sec-I Ans. 1 A 2 C 3 C 4 D 5 A 6 B 7 D 8 C 9 C 10 A 11 D 12 B 13 B 14 B 15 C 16 B 17 D 18 B 19 A 20 A 21 C 22 A 23 D 24 D 25 B 26 B 27 C 28 C 29 C 30 B 31 A 32 17/15(C) 33 B 34 A 35 A 36 C 37 C 38 A 39 B 40 D 41 D 42 A 43 A 44 B 45 A 46 A 47 A 48 C 49 A 50 C Sec-II 1 D 2 A 3 A 4 A 5 C 6 C 7 C 8 D 9 B 10 D 11 A 12 B 13 C 14 C 15 D 16 A 17 C 18 C 19 D 20 B 21 D 22 D 23 B 24 A 25 A 26 A 27 B 28 B 29 C 30 A 31 B 32 D 33 A 34 C 35 B 36 B 37 C 38 D 39 A 40 D 41 A 42 B 43 B 44 D 45 B 46 B 47 B 48 A 49 B 50 C Sec-III 1 C 2 A 3 B 4 D 5 B 6 D 7 A 8 D 9 B 10 C 11 D 12 B 13 C 14 A 15 16 D 17 C 18 D 19 A 20 C

**correct answer of set-A & B**

#### SET A SET B

Sec-I Sec-I 1 B 1 B 2 D 2 D 3 C 3 B 4 C 4 A 5 A 5 A 6 D 6 A 7 B 7 C 8 B 8 C 9 B 9 D 10 C 10 A 11 B 11 B 12 D 12 D 13 B 13 C 14 A 14 C 15 A 15 A 16 A 16 D 17 C 17 B 18 C 18 B 19 D 19 B 20 A 20 C 21 B 21 B 22 A 22 A 23 17/15(c) 23 A 24 B 24 A 25 A 25 C 26 A 26 A 27 C 27 C 28 C 28 C 29 A 29 A 30 B 30 D 31 D 31 D 32 D 32 B 33 D 33 B 34 A 34 A 35 B 35 C 36 A 36 C 37 A 37 B 38 A 38 A 39 C 39 17/15(c) 40 A 40 B 41 C 41 A 42 C 42 A 43 A 43 C 44 D 44 C 45 D 45 A 46 B 46 B 47 B 47 D 48 A 48 D 49 C 49 D 50 C 50 A Sec-II Sec-II 1 C 1 A 2 C 2 C 3 D 3 C 4 B 4 D 5 D 5 B 6 A 6 D 7 B 7 A 8 C 8 A 9 C 9 A 10 D 10 C 11 A 11 C 12 C 12 C 13 C 13 D 14 D 14 B 15 B 15 D 16 D 16 A 17 A 17 B 18 A 18 C 19 A 19 C 20 C 20 D 21 A 21 D 22 B 22 B 23 D 23 B 24 A 24 B 25 C 25 A 26 B 26 B

27 B 27 C 28 C 28 D 29 D 29 D 30 A 30 B 31 D 31 A 32 A 32 A 33 B 33 A 34 B 34 C 35 D 35 B 36 B  
36 C 37 B 37 A 38 B 38 B 39 A 39 D 40 B 40 A 41 C 41 C 42 D 42 B 43 D 43 B 44 B 44 C 45 A 45 D  
46 A 46 A 47 A 47 D 48 C 48 A 49 B 49 B 50 C 50 B Sec-III Sec-III 1 D 1 D 2 A 2 B 3 D 3 B 4 B 4 C  
5 C 5 D 6 D 7 B 7 C 8 B 8 D 9 C 9 A 10 10 C 11 D 11 C 12 C 12 A 13 D 13 B 14 A 14 D 15 C 15 B  
16 C 16 D 17 A 17 A 18 B 18 D 19 D 19 B 20 B 20 C

So here is the answer key for SeT C

### SET C

Sec-I 1 D 1 2 B 2 3 B 3 4 B 4 5 C 5 6 B 6 7 D 7 8 B 8 9 A 9 10 A 11 A 12 C 13 C 14 D 15  
A 16 B 17 D 18 C 19 C 20 A 21 C 22 A 23 B 24 D 25 D 26 D 27 A 28 B 29 A 30 A 31 A  
32 C 33 A 34 C 35 C 36 A 37 D 38 D 39 B 40 B 41 A 42 C 43 C 44 B 45 A 46 17/15(C)  
47 B 48 A 49 A 50 C Sec-II 1 A 2 B 3 C 4 C 5 D 6 A 7 C 8 C 9 D 10 B 11 D 12 A 13 A 14  
A 15 C 16 C 17 C 18 D 19 B 20 D 21 C 22 D 23 A 24 D 25 A 26 B 27 B 28 D 29 B 30 B  
31 B 32 A 33 B 34 C 35 D 36 D 37 B 38 A 39 A 40 A 41 C 42 B 43 C 44 A 45 B 46 D 47  
A 48 C 49 B 50 B Sec-III 1 D 2 C 3 D 4 A 5 C 6 C 7 A 8 B 9 D 10 B 11 D 12 A 13 D 14 B  
15 C 16 D 17 B 18 B 19 C 20 C

### GK

1. Resident of INC

– Annie Besant

2. I have a dream

– Martin Luther King

3. Khudai Khidmatgar

– Abdul Gaffar Khan

1. 4. Anagesis – aches and pain

2. 5. CD – Compact disc

3. 6. Chandrayan-I

– Scientific Paylod

7. WWW

– Tim Berners-Lee

8. The story of my life

– Desai

9. Through Thick and Thin

– under all conditions

1. 10. Picturesque – Photogenic

2. 11. Diligent

□ .- industrious 12. Ingratitude

□ .- Thankfulness