

Sample paper of Objective type questions (Telecom)

Question Paper for: Junior Engineer Telecommunication

Duration: -----

For one incorrect answer : 0.33 mark cut

Answer all Thequestion

1. Jelly filling of 6 Quad cables is resorted to-

- (a) Prevent propagation of moisture & water seepage.
- (b) Increase the insulation resistance.
- (c) Improve the attenuation characteristics.
- (d) Improve the Impedance matching

2. The Digital walkie-talkie sets used for the Driver-Guard communication have rated power output of-

- (a) 2W (b) 5W (c) 10W (d) 25W

3. An E1 stream has bandwidth of-

- (a) 2 Mbps (b) 4 Mbps (c) 8 Mbps (d) 100 Mbps.

4. ----- card is used for networking

- (a) VGA (b) NIC (c) Video card (d) HDMI

5. A STM-1 link can give a bandwidth of-

- (a) 21 E1s (b) 63 E1s (c) 1E1 (d) 144 Mbps.

6. The no. of spare conductors prescribed in each main cable up to the farthest points is-

- (a) 10% (b) 20% (c) 30% (d) 2 Nos.

7. The terminals and connectors of secondary cells are coated with petroleum jelly or Vaseline-

- (a) To prevent corrosion
- (b) To prevent leakage of electrolyte
- (c) To prevent leakage of current
- (d) To prevent accidental

8. The frequency band allotted to Railway for VHF communication is in the range of-

- (a) 450 - 750 MHz (b) 30 -300 MHz (c) 750 -800 MHz (d) 2 GHz

9. The insulation resistance of 6 Quad cables is to be meggered with a megger rated-

- (a) 100 V (b) 500 V (c) 2300 V (d) 1000 V

10.The technology used for communication between two computers in the same or adjoining rooms is-

- (a) Blue tooth (b) GPS (c) GPRS (d) DTMF

11.The full form of VOIP is

- (a) Voltage over internet Protocol
(b) Video over internet Protocol .
(c) Voice over internet Protocol
(d) Voice overhead internet propagation.

12.The 'Broad band' service provided commercially by the service provider has a minimum data transfer rate of

- (a) 64 Kbps (b) 2 Mbps (c) 128 Kbps (d) 256 Kbps

13.Type of OFC cable used in Indian Railways.

- (a) Single mode Fibre (b)Wide mode fibre(c) Multimode fibre(d)DWDM mode fibre

14.K factor of the earth under normal atmosphere conditions

- (a) 2 (b) 1.0 (c) $\frac{1}{2}$ (d) 1.33

15.DTMF uses frequency combinations of

- (a) 2 (b) 3 (c) 5 (d)Nil

16.The characteristic impedance of PET quad pair is -----

- (a) 600 Ohms (b) 470 Ohms (c) 1120 Ohms (d) 1180 ohms

17.In EC socket in 6 quad cable the transformer used have the impedance ratio

- (a) 2:1 (b) 1120 : 1120 (c) 470 : 1120 (d) 1120 : 600

18.Inverter convert

- (a) AC to DC (b) DC to AC (c) DC to DC (d) AC to AC

19.Idle current of 4 W way station selector for DTMF signalling is of the order of

- (a) 15 ma (b) 50 ma (c) 100 ma (d)1 ma

20.PRI cards are used in:

- (a) MW system
(b) OFC system
(c) Quad cable communication
(d) Telephone exchanges

21.In RE cables of configuration 1+m+n, n represents

- (a) No. of PET quads
- (b) No. of paper quads
- (c) No. of carrier quads
- (d) No. of data quads.

22. Balancing in 6quad cable is carried out at in Railway Communication :

- (a) Condenser joint
- (b) Normal joint
- (c) None of any
- (d) Loading coil joint.

23. Total No. of 20 watts loud speakers permitted to connect an 250 watt amplifier are

- (a) 5
- (b) 15
- (c) 12
- (d) 20

24. DTMF control equipment works on

- (a) 24Volts
- (b) 12Volts
- (c) 48Volts
- (d) 230Volts

25. The transmitter used in OFC system is

- (a) Laser diode
- (b) LED
- (c) Power transistor
- (d) SCR.

26. Codal Life of VRLA Batteries in years is

- (a) 06
- (b) 05
- (c) 04
- (d) not define

27. The maximum distance of EC Sockets in meters of a Railway is limited to

- (a) 900
- (b) 1200
- (c) 1000
- (d) 1250

28. The power output in watts in VHF sets used for Station to communication with driver & Guards is

- (a) 12
- (b) 25
- (c) 20
- (d) 5

29. What is the maximum limit of earth resistance for Digital Telephone Exchange.

- (a) 10 ohms
- (b) 5 ohms
- (c) 2 ohms
- (d) 1 ohm

30. Is the object of earthing for telecommunication equipment

- (a) To provide a return earth
- (b) To provide safety against shock to the working person
- (c) To provide protection against unduly high voltages
- (d) All the above

31. The float charging voltage of a VRLA cell is_____. Select one:

- (a) 2.15V
- (b) 2.27V
- (c) 2.25V
- (d) 2.30V

32. The _____ is the physical path over which a message travels.

- (a) Protocol
- (b) Medium
- (c) Signal
- (d) All the above

33. Which topology requires a multipoint connection in LAN Network?

(a) Mesh (b) Star (c) Bus (d) Ring

34. _____ is a collection of many separate networks.

(a) WAN (b) An internet (c) a LAN (d) None of the above

35. The --- gate has one or more high inputs, produces high output

(a) NOT (b) OR (c) XOR (d) XNOR

36. Binary means --- Binary numbers have a base of 2

(a) One (b) Two (c) Three (d) Four

37. A Transistor has --- PN junctions

(a) One (b) Two (c) Three (d) Four

38. For Platform announcement in Rly. Stations loudspeakers are connected in ----- matching method

(a) Ohm (b) Ohm-Voltage (c) LMT (d) Voltage

39. The 6quad with OFC system as per Railway Telecom Manual is used for Block Instrument circuit.

(a). Blue-White -Red-Slat

(b). Orange -White -Red-Slat

(c). Black-White -Red-Slat

(d). Green -White -Red-Slat

40. The ---- terminal of the power supply is connected to earth terminal in Electronic **Exchanges**.

(a) Negative (b) Not connected (c) neutral (d) Positive

41. Henry is the unit of _____

(a) Resistance (b) Capacitance (c) Inductance (d) Power

42. The instrument used for measuring cable insulation is _____

(a). Insulation megger (b) Multimeter (c) Voltmeter (d) OTDR

43. _____ Number of E1's can be transmitted in STM4.

(a) 252 (b) 21 (c) 63 (d) 64 252

44. In a 2 Mb digital transmission in MUX, the number of speech channel will be _____.

(a) 32 (b) 24 (c) 30 (d) 22

45. The short cut keys used to copy is _____ computer key board

(a) Ctrl+C, (b) Ctrl+V (c) Ctrl+P (d) Ctrl+ S

46. Data can be send ----- meters through Cat 6 cable

(a) 100 (b) 1000 (c) 250 (d) 500

47. The SCADA System used for

- (a) Control Phone Application
- (b) Signal System
- (c) Traction Power Control System
- (d) General managements

48. In MPLS system the customer side uses ----- routers

- (a). Edge(b). Core (c). main(d). optical

49. In IPDSLAM ----- modem is required at Users end

- (a). LAN (b). ADSL (c).G.703 (d). V.35

50. Normal OFC & 6 QUAD cable drum length is -----

- (a) 3 KM & 1 Km(b) 2 Km & 4km (c) 5 Km& 2km (d) 1 Km & 3km

51. EC socket -----pin is used for Trans signal

- (a) 1-6 (b) 2-5 (c) 3-4 (d) 1-2

52. The Pair of Modem used for Extensions of E1 Circuits

- (a) V.35-V.35 (b) V.35-G.703 (c) G.703-G.703 (d) V.24-G.703

53. The AC induce voltage effect prevent in 6 quad cable by

- (a). DST Armer(b). AL Wire screen sheath (c).PVC Insulation (d). jacket

54. The network used for trunk connectivity of Divisions main Exchanges in Indian Railway

- (a). FOIS (b). MPLS (c).NGN (d). COIS

55. The main line in Nagpur Division block working on conductors

- (a) 6 (b) 5 (c) 4 (d) 2

56. The Full form of IPIS for telecom department

- (a). Integrated parcel information system
- (b). Integrated passenger information system
- (c). Integrated power supply information System
- (d). information public India system

57. the full form of PTZ Camera

- (a). Power transmission zone Camera
- (b). Pan, Tilt &Zoom Camera

- (c). Passenger transfer zonal cameras
- (d). Police Transmission zonal Cameras

58. IPV6 Full form is

- (a) Internet Protocol Version 6
- (b) Internet provider version 6
- (c) International protocol version 6
- (d) Intermediate protection version 6

59. the CAT-6 Cable have pair of conductors

- (a) 6
- (b) 5
- (c) 4
- (d) 8

60. the Voice Data Logger installed at

- (a) zonal control room
- (b) disaster management room in division
- (c) Division Control Room
- (d) UTS/PRS/FOIS Division Data Centre

61) The items which were not issued for more than 24 months and not likely to be used in near future will be

- (a) Stock item
- (b) Non –stock item
- (c) Surplus item
- (d) Moveable item

62) Accounts department stock verification for stores with Imprest holder are checked once in

- (A) 2 Years
- (B) 1 Year
- (C) 3 Years
- (D) 6 Months

63) Railway budget is presented in the parliament by

- (A) Finance minister
- (B) Prime minister
- (C) Railway minister
- (D) Home minister

64) Total number of CL eligible for field staff

- (A) 8 days
- (B) 12 days
- (C) 10 days
- (D) 11 days

65) At the time of retirement a permanent railway employee will get encashment of LAP to the maximum of

- (A) 120 DAYS
- (B) 240 DAYS
- (C) 300 DAYS
- (D) 360 DAYS

66) Maximum number of dependents included in the pass are

- (A) 3
- (B) 2
- (C) 4
- (D) 6

67) Privilege pass for single journey is valid for

- (A) 4 Months
- (B) 6 Months
- (C) 1 Month
- (d)12 Months

68) Post retirement passes for Group 'C' employee with 24 years of service will be

- (A) 2
- (B) 1
- (C) 3
- (d) 8

69) Censure comes under

- (A) Major penalty
- (B) Minor penalty
- (C) None of the above
- (d)suspension

70) Removal of service comes under

- (A) Major penalty
- (B) Minor penalty
- (C) None of the above
- (d)both penalty

71) Joining time for more than 2000 kms from old HQ to new HQ is

- (A)10 DAYS

(B) 15 DAYS

(C) 20 DAYS

(D) 5 DAYS

72) Number of PTO's eligible by Railway servant in a calendar year are:

(A) 1

(B) 2

(C) 4

(D) 6

73) Leave not due during entire service shall be limited to a maximum of

(A) 24 months

(B) 48 months

(C) 360 Days

(D) 4 months

74) The New Designation of Helper is now

a. Khalasi

b. Assistance

c. technical person

d. railway major

75) Group D staff retired after 20 years of service will get the following sets of PTO

(A) 2

(B) 1

(C) 3

(D) NIL

76) Joining time eligible when the distance is below 1000 KM is

(A) 10 days

(B) 12 days

(C) 15 days

(D) Nil.

77) For promotion of Rajbhasha, India is divided into

(A) 2 zones

(B) 3 zones

(C) 4 zones

(D) Zones

78) In Indian constitution which schedules deals with languages

(A) 4th schedule

- (B) 6th schedule
- (C) 8th schedule
- (D) 10th schedule

79) Which day is celebrated as Hindi divas

- (A) 14th September
- (B) 20th April
- (C) 2nd December
- (D) 14th January

80) Script of official language of India is

- (A)Nandnagari
- (B)Devanagri
- (C)Sanskrit
- (D) HINDI

81. The competent authority to upgrade a firm from Part-II list of approved sources of electrical signalling & Telecom equipment's to Part-I list is

- (a) RDSO (b) Rly.Bd. (c) CORE (d)Zonal Rly.

82. Cellular telephones use the technology of

- (a) GSM (b) Tetra (c) Microwave (d) UHF

83. Brass is an alloy of

- (a) Copper and Zinc
- (b) Copper and Tin
- (c) Copper, Tin & Zink
- (d) None of the above.

84. Transformer cores are laminated in order to

- (a) Simplify its construction
- (b) Minimise eddy current
- (c) Reduce cost
- (d) Reduce Hysteresis loss

85.The Basic function of a rectifier is to

- (a)Change the level of D.C Voltage

(b) Convert D.C. into A.C.

(c) Change frequency of A.C voltage

(d) Convert A.C. into D.C.

86. Transformers are rated in KVA instead of KW because

(a) Load power factor is often not known

(b) KVA is fixed KW depends on load p.f.

(c) Total transformer loss depends on volt ampere It has become customary.

87. The speed of data transfer in digital transmission is expressed as

(a) BER (b) Kilobits per sec (c) Kilobytes per sec (d) Words per sec.

88. "Swaraj is my birth right and I shall have it"

(a) Mahatma Gandhi (b) Mohammad Ali Jinna (c) Sardar Patel (d) BalGangadharTilak

89. The people of America were addressed by the words "My dear Brothers & Sisters of America"- These decertifying words were spoken by;

(a) Pandit Nehru (b) George Washington (c) Swami Vivekanand (d) Abraham Lincoln

90. "Monolisa" one of the greatest painting was a great work done by

(a) Pablo Picasso (b) Michael Angelo (c) Leonardo Da Vinci (d) M.F.Hussain

91. the 10 Downing Street is the Official Residence of:

(a) The American President

(b) The British Prime Minister

(c) The Indian Prime Minister

(d) The Queen of England

92. The Presiding Officer of the Rajya Sabha is;

(a) The Speaker

(b) The Dy. Speaker

(c) The Vice President

(d) The Parliamentary Affairs Minister

93. The controversial book "Satanic Versus" is written by

(a) V.S.Naipaul (b) Salman Rushdie (c) Vikram Seth (d) Shobha De

94. The city selected to host the next 2020 Summer Olympics Games

(a) Beijing (b) London (c) Seol (d) Tokyo

95. The person who captained Independent India's first cricket team

- (a)LalaAmarnath (b) Polly Umrigar (c) Prof. Deodhar (d)Duleep

96. Article 356 of the Constitution deals with

- (a)Imposition of Presidents Rule in a State
(b)Granting of special status to Jammu & Kashmir
(c)Summary dismissal of a Government Servant for a heinous crime
(d)Granting of equality to all religious.

97. The film "PatherPanchali" was directed by

- (a)MrinalSen (b)Satyajeeet Ray (c)Rishikesh Mukherjee (d) Raj Kapoor

98. The father of Space Research Programme in India

- (a)Dr.Vikram Sarabhai (b) Prof. SatishDhawan (c) Prof. U.R.Rao(d)Dr. A.P.J. Abdul Kalam

99. The pioneer of Nuclear Science Research programme in India

- (a)Dr.H.N.Sethna (b)Dr.HomiBhabha (c) Prof. M.G.K. Menon(d)Dr. A.P.J. Abdul Kalam

100. Aligarh Muslim University was founded by:

- (a) Sir Syed Ahmed Khan (b)Moulana Abdul Kalam Azad
(c) Mohammad Ali Jinna(d) Khan Abdul Gaffar Khan.