

1. Full form of MTBF is
  - a. Mean time before failure
  - b. Mean time between failure**
  - c. More time between failure
  - d. Mean time by failure
2. Consider the following two statements :
  - a. MTBF should be as high as possible
  - b. MTTR should be as low as possible

Choose the correct option :

  - a. Both statements are correct
  - b. Both statements are incorrect
  - c. Statement 1 is correct and Statement 2 is incorrect
  - d. Statement 1 is incorrect and Statement 2 is correct
3. Emergency communication sockets are placed at a interval of
  - a. 0.5 km
  - b. 1 km**
  - c. 1.5 km
  - d. 2 km
4. Range of very high frequency is
  - a. 0.3 MHz to 3 MHz
  - b. 3 MHz to 30 MHz
  - c. 30 MHz to 300 MHz**
  - d. 300 MHz to 3000 MHz
5. Megger is used to measure
  - a. Insulation Resistance**
  - b. Conductance
  - c. Capacitance
  - d. Earth Resistance
6. Psophometer is used to measure
  - a. Perceptible noise of a telephone circuit**
  - b. Power transmitted by antenna
  - c. Insulation resistance
  - d. None of the above
7. The equivalent Pshophometric noise voltage in voice circuit should be
  - a. More than 5 milli volts
  - b. Less than 5 milli volts
  - c. More than 2 milli volts
  - d. Less than 2 milli volts**
8. Which of the following measurements can be done with an OTDR
  - a. Insertion Loss
  - b. Splice Loss
  - c. Both A and B**
  - d. None of the above
9. Condition for distortion less condition of a transmission line is
  - a.  $RC = LG$**
  - b.  $RL = CG$
  - c.  $RG = LC$
  - d. None of the above
10. Conductor resistance of 0.63 mm diameter conductor PIJF cable is
  - a. 128 ohm/km
  - b. 32 ohm/km
  - c. 64 ohm/km**
  - d. 256 ohm/km

11. Loop resistance of pair of 0.51 mm diameter conductor PIJH cable is
  - a. 92 ohm/L KM
  - b. 184 ohm/L KM**
  - c. 46 ohm/L KM
  - d. 196 ohm/L KM
12. Marking on PIJF cable is placed at an interval of
  - a. 0.5 m
  - b. 1.0 m**
  - c. 1.5 m
  - d. 2.0 m
13. Loop resistance of 6 quad cable is
  - a. 28 ohm/L KM
  - b. 56 ohm/L KM**
  - c. 84 ohm/L KM
  - d. 112 ohm/L KM
14. Which of the colors are not present in 6 quad cable :
  - a. Red
  - b. Black
  - c. Grey
  - d. Pink**
15. Which quad number is used for emergency control :
  - a. 1
  - b. 2
  - c. 3**
  - d. 4
16. For long distance block section (>25 KM), which diameter of quad cable will be used :
  - a. 0.9**
  - b. 1.4
  - c. Both
  - d. 1.2
17. A woofer produces
  - a. Higher notes
  - b. Lower notes**
  - c. Both a and b
  - d. None of the above
18. Voltage of a fully charged and fully discharged Lead acid cell is
  - a. 2.2 V and 1.8 V**
  - b. 1.8 V and 2.2 V
  - c. 2.0 V and 2.2 V
  - d. 2.0 V and 1.8 V
19. Specific gravity of a fully charged and fully discharged Lead acid cell is
  - a. 1.220 and 1.180**
  - b. 1.180 and 1.220
  - c. 1.835 and 1.220
  - d. 1.835 and 1.180
20. Specific gravity of concentrated H<sub>2</sub>SO<sub>4</sub> is
  - a. 1.220
  - b. 1.180
  - c. 1.835**
  - d. 2.000
21. Coidal life of Lead Acid batteries used for telecom power supply is
  - a. 3 years
  - b. 4 years**
  - c. 5 years
  - d. 6 years

22. A rectifier converts
- AC into DC
  - DC into AC
  - DC into DC
  - None of the above
23. Class B surge protection devices are connected in between
- Phase and Neutral
  - Neutral and Earth
  - Both a and b
  - Phase and Earth
24. Class C surge protection device is connected in between
- Phase and Neutral
  - Neutral and Earth
  - Both a and b
  - Phase and Earth
25. Distance between two adjacent earth electrodes should be
- More than twice the length of earth electrode
  - Less than twice the length of earth electrode
  - More than length of earth electrode
  - Less than length of earth electrode
26. Power supply unit of TEJAS STM TJ1400 gives \_\_\_ V output to system
- 6 V
  - 12 V
  - 18 V
  - 24 V
27. Frequency allotted by WPC in VHF to Indian Railways
- 142MHz to 170MHz
  - 146MHz to 176 MHz
  - 146MHz to 174MHz
  - 176MHz to 198MHz
28. 25 W VHF sets provided to SM works in which mode
- Simplex
  - Half Simplex
  - Duplex
  - Full Duplex
29. VHF frequency used for communication at disaster site
- 148.975 MHz
  - 147.975 MHz
  - 146.975 MHz
  - 150.100 MHz
30. Which of the following does not form part of GSM
- BSS
  - VLR
  - HLR
  - PUC
31. Frequency used for Uplink in GSM is
- 890 MHz – 915 MHz
  - 885 MHz – 910 MHz
  - 935 MHz – 960 MHz
  - 930 MHz to 955 MHz
32. IPV4 address has been classified into how many address
- 3
  - 4
  - 5
  - 6

33. IP address 255.255.255.255 is used
- Used for default network
  - Used as universal loop back address
  - Used as automatic private IP address
  - Used as universal broadcast address**
34. Function of network address translation (NAT) in a LAN is
- Translate private IP to public IP
  - Translate public IP to private IP
  - To Broadcast
  - None of the above
35. How many tones and type of frequency is used in DTMF calling?
- Two harmonically unrelated tones**
  - Two harmonically related tones
  - One harmonically related tone
  - Three harmonically related tone
36. In control telephone, to repeat the last code which button needs to be pressed?
- RT
  - LR**
  - DL
  - RL
37. Voltage required for way side control phone is
- 6 V
  - 12 V**
  - 18 V
  - 24 V
38. \_\_\_\_\_ amplifier provides side tone to enable the conversation between way stations in control communication.
- Buffer
  - Leak**
  - Remote
  - None of the above
39. 4 wire control communication can be converted into 2 wire control communication by using
- Phantom Circuit**
  - Superimposed Circuit
  - Terminal Circuit
  - Hybrid Circuit
40. ACSR full form is
- Aluminum conductor steel reinforced**
  - Aluminium Copper steel reinforced
  - Aluminium conductor silicon reinforced
  - Aluminium conductor silicon reinforced
41. Transmission loss of RE cable when loaded is
- 0.63 dB/KM
  - 0.25 dB/KM**
  - 0.36 dB/KM
  - 0.86 dB/KM
42. Resistance of a conductor increases with increases in
- Length**
  - Area
  - Diameter
  - None of the above

43. The loss offered by a fusion splicing of optic fibers shall not exceed
- 0.1 dB
  - 0.2 dB
  - 0.3 dB
  - 0.4 dB
44. The S/N ratio under normal operating condition of the amplifying systems shall not be worse than
- 30 dB
  - 40 dB
  - 50 dB
  - 60 dB
45. The ringing voltage of exchange is
- 75V/25Hz
  - 85V/25Hz
  - 75V/ 30 Hz
  - 85V/30 Hz
46. Which card supports tone dialing?
- CNF
  - RMF
  - TGD
  - XSC
47. In Fibcom 6325, Node the Optical connectors used are of the type
- Fc
  - SC
  - LC
  - All of the above
48. The Dynamic protocol used for unification of PRS & UTS is
- SIP
  - OSFP
  - OSPF
  - IGRP
49. VLAN is a ..... grouping of computers in a network
- Logical
  - Physical
  - Both a and b
  - None of the above
50. BSSID of access point is
- 48 bit IP address
  - 32 bit IP address
  - 48 bit MAC address
  - IPV6 address
51. The shortest frame in HDLC protocol is usually the ..... frame.
- Management
  - Supervisory
  - Information
  - Performance
52. Which layer is responsible for moving frames from one hop (node) to the next.
- Data link Layer
  - Physical Layer
  - Transport Layer
  - Network Layer
53. When data and acknowledgement are sent on the same frame, this is called .....
- Back Packing
  - Piggy Backing
  - Piggy Packing
  - Back Backing

54. Which layer produces the OSPF message?
- Physical Layer
  - Data Link Layer
  - Network Layer
  - Application Layer
55. In an Asymmetric Digital Subscriber Line modem
- Upstream and downstream is same
  - Upstream is higher than downstream
  - Upstream is lower than downstream
  - None of the above
56. In GSM-R, the interface in between BTS & BSC is called
- BSS
  - MSC
  - HLR
  - ABIS
57. The multiplexing process is used in GSMR is
- FDMA
  - TDMA
  - CDMA
  - CSMA
58. Nos of inputs and outputs of MDCH & PDCH
- 2 & 8
  - 8 & 2
  - 2 & 16
  - 16 & 2
59. Zero dispersion occurs in \_\_\_\_\_ wavelength
- 800 nm
  - 910 nm
  - 1210 nm
  - 1310 nm
60. Consider the following statements
- Single mode fiber is best designed for longer transmission distances.
  56. Multi mode fiber is best designed for shorter transmission distances.
- Choose the correct option
- Both statements are true
  - Both statements are false
  - Statement 1 is true and 2 is false
  - Statement 2 is true and 1 is false
61. Periodicity of cross talk test and insulation test is
- Yearly
  - Quarterly
  - Quarterly and Yearly
  - Yearly and Quarterly
62. The cable route indicators are to be placed at every
- 5 m
  - 10 m
  - 15 m
  - 20 m
63. Value of loading coil in 6 Quad cable is
- 101 mH
  - 111 mH
  - 118 mH
  - 127 mH
64. Length of loading section in RE area is
- 1530 m
  - 1630 m
  - 1730 m
  - 1830 m

65. Interface between the main cable and branch line cable shunted with high impedance is called
- Hybrid amplifier
  - Leak Amplifier
  - Buffer amplifier
  - Power amplifier
66. In RE area, electromagnetic induction can be minimized by providing
- Step down transformer
  - Amplifier
  - Isolation transformer
  - Buffer Amplifier
67. Maximum capacitance unbalanced permitted in a quad cable for full loading section is
- 20 pF
  - 30 pF
  - 40 pF
  - 50 pF
68. Capacitance can be increased by connecting 2 or more capacitance in
- Series
  - Parallel
  - Series and Parallel
  - None of the above
69. For testing NEXT (Near end cross talk), distance required is
- 1 meter
  - 2 meter
  - 3 meter
  - 0.5 meter
70. LMT (Line matching Transformer) is used in \_\_\_\_\_ matching method
- Voltage
  - Current
  - Impedance
  - Power
71. Consider the following statements
- MLDB & CGDB are **single** faced train indication board
  - AGDB & PDB are **double** faced train indication board.
- Choose the following option
- Both statement are true
  - Both statements are false
  - Statement 1 is true and 2 is false
  - Statement 2 is true and 1 is false
72. Slot-12 and slot-13 has equal and parallel access to time slots \_\_\_\_\_ in WEBFIL mux
- 28 & 29
  - 29 & 30
  - 30 & 31
  - 31 & 32
73. OTDR works on the principle of
- Back Diffraction
  - Back Reflection
  - Back Scattering
  - Interference
74. Visibility of train indication board must be
- 50 to 70 m
  - 70 to 100 m
  - 100 to 120 m
  - 120 to 150 m

75. If an Ethernet destination address is 07-01-02-03-04-05, then this is a ..... Address
- Unicast
  - Broadcast**
  - Multicast
  - All of the above
76. ADSL modem uses modulation method
- FDM + FSK
  - TDM + FSK
  - QAM + FDM**
  - All of the above
77. Choose the correct option for an OFC
- Refractive index of core is greater than cladding in optic fiber
  - Refractive index of core is less than cladding in optic fiber
  - Refractive index of core is equal to cladding in optic fiber
  - Refractive index of core is unrelated to cladding in optic fiber
78. In GSM, full form of VLR means
- Voice location register
  - Video location register
  - Visitor location register**
  - Voice latent register
79. IIM Sirmaur that was seen in news recently, is located in which state?
- Uttar Pradesh
  - Himachal Pradesh**
  - Punjab
  - Haryana
80. Recently Shipping Ministry has approved Rs 107 Crore for improving fire-fighting facilities in which major port?
- Kolkata port**
  - Kandla Port
  - Chennai Port
  - Cochin Port
81. Which Indian state has banned the sale of dog meat and commercial import and trading of dogs?
- Sikkim
  - Arunachal Pradesh
  - Nagaland**
  - Assam
82. What is the theme of the 'World Teachers Day 2022'?
- Teaching Importance of Sustainability
  - Teaching Equality
  - The change of education begins with teachers**
  - Leaving No one Behind
83. 'Optimus' is the prototype humanoid robot, launched by which company?
- Apple
  - Tesla**
  - Amazon
  - None of the above
84. UIDAI is a statutory authority established under which Union Ministry?
- Ministry of Electronics & Information Technology**
  - Ministry of Home Affairs
  - Ministry of Finance
  - Ministry of Science and Technology
85. Aung Suu Kyi is the former leader of which country?
- Thailand
  - Myanmar**
  - Bangladesh
  - Nepal



86. 'Good Governance Week' is observed during which month?
- December
  - January
  - March
  - May
87. Which state organises the world's largest open-air theatre 'Dhanu Yatra' festival?
- Gujarat
  - Odisha
  - West Bengal
  - Kerala
88. Which institution launched the 'One Week, One Lab' campaign?
- NITI Aayog
  - BARC
  - CSIR
  - ISRO
89. Which city is the host of 'Khadi Fest – 2022 Exhibition'?
- Chennai
  - Mumbai
  - Ahmadabad
  - Kolkata
90. Swachh Bharat Diwas is celebrated on which date in India?
- 2 October
  - 30 January
  - 14 November
  - 26 January
91. Which institution regulates the 'National Pension System' in India?
- LIC
  - PFRDA
  - SEBI
  - IRDAI
92. Which is the first state to launch its dedicated climate change mission?
- Kerala
  - Tamil nadu
  - Karnataka
  - Goa
93. When is the 'International Anti-Corruption Day' observed?
- 9 September
  - 2 October
  - 3 November
  - 9 December
94. Who is the chairman and CER of Railway board?
- Sri Arun Arora
  - Sri Sunit Sharma
  - Sri Anil Kumar Lahoti
  - Sri V K Tripathi
95. Tungareshwar Wildlife Sanctuary, which was seen in the news, is located in which state?
- Karnataka
  - Maharashtra
  - Kerala
  - Andhra Pradesh

96. For the series 36,34,30,28,24..., which number will come next?
- 20
  - 22
  - 26
  - 32
97. India's first gold ATM has been inaugurated in which city?
- Varanasi
  - Hyderabad
  - Ahmadabad
  - Lucknow
98. Manu Bhaker and Sarabjot Singh, who were in the news recently, are associated with which sports?
- Hockey
  - Shooting
  - Squash
  - Cricket
99. As per the Ministry of Culture, how many centrally protected monuments are missing?
- 10
  - 20
  - 50
  - 100
100. Capital of state Mizoram is
- Aizwal
  - Gangtok
  - Kohima
  - Imphal
101. As per Article 343(1) the official language of the union is.
- Hindi
  - English
  - Tamil
  - Bengali
102. Section 3 of the Official language act 1963 came into force on
- 26th day of January, 1967
  - 30th day of October, 1945
  - 14th day of November, 1974
  - 26th day of January, 1965
103. The chairman of Rail Hindi Salahakar Samiti is-----
- .
- Rita Bahuna Joshi
  - Piyush Goyal
  - Harish Dwivedi
  - Ahilesh Prasad Singh
104. The official language rules 1976 are come into force in entire India except the state of -----.
- Tamil Nadu
  - West Bengal
  - Karnataka
  - Maharashtra

105. There are -----languages in eighth schedule of the constitution.
- a. Twenty-two
  - b. Twenty
  - c. Nineteen
  - d. Fifteen
106. Under the Individual cash award scheme of railway board for doing maximum and commendable official work in Hindi the cash award amount is ----- .
- a. 1000
  - b. 5000
  - c. 3000
  - d. 500
107. On doing work in Hindi in prescribed quantity, Incentive allowance of Rs ----- is admissible to English stenographer
- a. 240/month
  - b. 120/month
  - c. 180/month
  - d. 60/month
108. An application or appeal made in English but signed in Hindi by the staff than shall be replied to in -----.
- a. Hindi
  - b. English
  - c. Any Language
  - d. Any other
109. The chairman of Divisional official language implementation committee is -----
- a. General manager
  - b. Divisional Railway manager
  - c. Zonal Head
  - d. None of the above
110. Delhi and Agra come under region-----
- a. C
  - b. B
  - c. None of the bove
  - d. A