

1. Who repealed the vernacular press act?  
(a) Lord Litton  
(b) Lord Ripon  
(c) Lord Wellesley  
(d) Lord Mount Batten
2. The pioneer of Indian Communism is  
(a) P.C. Ray  
(b) B.G. Thilak  
(c) Bipan Chandra Pal  
(d) M.N. Roy
3. 'Kanya Van Samrudhi Yojana' is launched by  
(a) Maharashtra  
(b) Andhra Pradesh  
(c) Gujarat  
(d) U.P.
4. The 'Woods Dispatch' of 1854 is associated with  
(a) Setting up of Forest Department in India  
(b) Establishment of Revenue Department in India  
(c) Establishment of Universities in India  
(d) Setting up of Railways in India
5. The percentage of earth surface covered by India is  
(a) 2.2%                      (b) 2.4%  
(c) 2.6%                      (d) 2.8%
6. The first indigenously built atomic power station in India was

- (a) Tarapur  
(b) Rawatbhata  
(c) Kalpakkam  
(d) Kakrapar
7. The place where salt satyagraha took place in Kerala?  
(a) Kollam  
(b) Payyannur  
(c) Muzhikkulam  
(d) Kodungallur
8. 23rd May 1931 is associated with  
(a) Surya Sen  
(b) Ajith Singh  
(c) Bhagat Singh  
(d) W.C. Banerjee
9. The 8th Five Year Plan in India was implemented between  
(a) 1980-1985  
(b) 1985-90  
(c) 1990-92  
(d) 1992-97
10. The forced labour without remuneration in pre-modern Kerala was known as  
(a) Anchuvannam  
(b) Manigramam  
(c) Kacham  
(d) Uzhiyam
11. At which place, Vaikunda Swamikal attained enlightenment and assumed the title 'Vaikundar'?

- (a) Tiruchendur  
(b) Muttapathy  
(c) Thycaud  
(d) Madurai
12. In which year Brahmananda Sivayogi formed a new philosophy or religion called Anandadarsha?  
(a) 1889                      (b) 1890  
(c) 1892                      (d) 1895
13. Which among the following works of Thycaud Ayya showed his scholarship as a Vedantist?  
(a) Christhumatha Saaram  
(b) Brahmootharakandam  
(c) Pracheena Keralam  
(d) Karuna
14. In the year 1922, Sri Narayana Guru built a temple at Murukkumpuzha and consecrated not an idol but a mere inscription. Which among the following words are not inscribed in it?  
(a) Truth  
(b) Love  
(c) Mercy  
(d) Compassion
15. The Cochin Legislative Council that came into existence in 1925 was inaugurated in -----  
(a) Tripunithura  
(b) Cochin

- (c) Kodungallor  
(d) Puduvaippu
16. Who has won the Men's Singles French Open Tennis tournament in 2018?  
(a) Rafael Nadal  
(b) Andy Murray  
(c) Roger Federer  
(d) Novak Djokovic
17. The first fish on earth known to be truly warm blooded is -----  
(a) Salmon  
(b) Hogfish  
(c) Flathead Grey Mullet  
(d) Opah
18. Which of the following was selected as the best motion picture and took home the Oscar 2018?  
(a) La La Land  
(b) Moonlight  
(c) Hacksaw Ridge  
(d) Arrival
19. The place where International Buddhist conference was held in 2018?  
(a) Lumbini  
(b) Gaya  
(c) Patna  
(d) Banaras
20. NASA's ----- discovered ancient components necessary for life on Mars.  
(a) Discovery

- (b) Endeavour  
(c) The Curiosity  
(d) Columbia
21. The software used for high performance numerical computation and visualization  
(a) MASM  
(b) MATLAB  
(c) MENDELEY  
(d) TASM
22. VHASIC Hardware Description Language is commonly called  
(a) VHDL  
(b) Verilog HDL  
(c) VSHDL  
(d) None of these
23. In D'Arsonval Movement the torque exerted on the pivoted coil is proportional to the applied  
(a) Voltage  
(b) Current  
(c) Power  
(d) Amplitude
24. LVDT is used to measure  
(a) Temperature  
(b) Humidity  
(c) Displacement  
(d) Magnetic Flux
25. All pass filters are used for  
(a) Phase correction  
(b) Noise reduction  
(c) Attenuation

- (d) Amplification
26. A network designed to attenuate certain frequencies and allow other to pass without attenuation is called  
(a) Filter  
(b) Attenuator  
(c) Low noise amplifier  
(d) Pre-Amplifier
27. The instrument used to display a signal in frequency domain is  
(a) CRO  
(b) Wave Analyser  
(c) Spectrum Analyser  
(d) DSO
28. IC 7447 is  
(a) Encoder IC  
(b) Comparator IC  
(c) Multiplexer IC  
(d) Decoder IC

29. The element used to separate transmitting and receiving signals in a single antenna system  
 (a) Detector  
 (b) Mixer  
 (c) Low Noise Amplifier  
 (d) Duplexer
30. Which one is not an internal part of PLC?  
 (a) CPU  
 (b) Timer  
 (c) Communication interface  
 (d) DIMM
31. In an SCR Holding current is  
 (a) Equal to latching current  
 (b) Less than Latching current  
 (c) Greater than Latching current  
 (d) Zero
32. The synchronous speed of a synchronous motor is directly proportional to  
 (a) Number of poles  
 (b) Applied voltage  
 (c) Frequency of input voltage  
 (d) None of these
33. Bandwidth of an FM radio station  
 (a) 250 KHz  
 (b) 175 KHz  
 (c) 200 KHz  
 (d) 10.5 KHz
34. Number of Flip Flips required to construct a MOD-12 counter  
 (a) 12 (b) 6  
 (c) 4 (d) 3
35. The IC 8279 is  
 (a) DMA controller  
 (b) PPI  
 (c) Interrupt controller  
 (d) Keyboard and Display Interface
36. Which logic family has the lowest propagation delay?  
 (a) Standard TTL  
 (b) RTL  
 (c) HTL  
 (d) Schottky TTL
37. Anti-fuse is related to  
 (a) SCR  
 (b) SRAM  
 (c) ASIC  
 (d) MOSFET
38. ----- is not a micro-processor.  
 (a) 8088  
 (b) 8086  
 (c) Z80  
 (d) 8051
39. What is the total power of an AM signal with 100 Watts carrier power and 100% depth of modulation?  
 (a) 100 watts  
 (b) 100 K watts  
 (c) 150 watts  
 (d) 150 K watts
40. Foster-Seeley demodulator is  
 (a) AM Demodulator  
 (b) FM Demodulator  
 (c) PAM Demodulator  
 (d) PPM Demodulator
41. SCR in reverse blocking mode, the junctions are reverse biased are  
 (a) J1 alone  
 (b) J2 and J3  
 (c) J2 Alone  
 (d) J1 and J3
42. Snubber circuits are used in SCR circuit for  
 (a) To limit current  
 (b) To protect from high dv/dt  
 (c) Protect from over temperature  
 (d) None of these
43. Which oscillator that can be fabricated in IC form?  
 (a) Relaxation Oscillator  
 (b) Crystal Oscillator  
 (c) RC Phase Shift Oscillator  
 (d) Wein Bridge Oscillator
44. Base of a number system is also called  
 (a) Count  
 (b) Radix  
 (c) Value  
 (d) Nibble
45. Divide by error interrupt in 8086 can initiated using  
 (a) RST 0  
 (b) by Resetting  
 (c) Using INTR  
 (d) INT 0
46. Using three numbers of resistances ----- number of combinations can be made.  
 (a) 3 (b) 4  
 (c) 5 (d) 2
47. The ideal output resistance of a voltage amplifier is ----- resistance.  
 (a) Unity  
 (b) Infinity  
 (c) 1000  
 (d) Zero
48. CMRR is related to  
 (a) Inverter  
 (b) Chopper  
 (c) Amplifier  
 (d) Op-Amp
49. Capacity of a single layer Blu-ray disc  
 (a) 5.5 GB  
 (b) 11 GB  
 (c) 25 GB  
 (d) 50 GB
50. Nyquist sampling theorem is related to  
 (a) BPSK  
 (b) PPM  
 (c) PCM  
 (d) FDM
51. The ideal data speed of 5 G mobile network  
 (a) 20 GB/s  
 (b) 5 GB/s  
 (c) 1 GB/s  
 (d) 22.5 GB/s
52. The type of connector used in telephones  
 (a) RJ-45  
 (b) RJ-11  
 (c) RJ-10  
 (d) RJ-9
53. Signals transmitted over several different paths is called  
 (a) Multi-user diversity  
 (b) Time diversity  
 (c) Space diversity  
 (d) None of these
54. The light detector used in optical fibre communication  
 (a) PIN Diode  
 (b) APD  
 (c) (1) and (2)  
 (d) None
55. Class C amplifiers are commonly used as ----- Amplifiers.  
 (a) AF current  
 (b) AF voltage  
 (c) Radio frequency  
 (d) Pulse amplifier
56. The number of select lines in a 1 to 8 de-multiplexer is  
 (a) 2 (b) 3  
 (c) 4 (d) 8
57. Number of address lines required to address a memory system made of 2 modules of 1 MB memory chips  
 (a) 12  
 (b) 20  
 (c) 21  
 (d) None of these
58. A Karnaugh Map is an abstract form of ----- diagram.  
 (a) Cycle diagram  
 (b) Block diagram  
 (c) Logical diagram  
 (d) Venn diagram
59. A logic circuit that has memory is  
 (a) Sequential circuit  
 (b) Combinational circuit  
 (c) Both (1) and (2)  
 (d) None of these
60. The basic block in an HDL program is called  
 (a) Object  
 (b) Gate  
 (c) Module  
 (d) Model instantiation
61. Number of bits in a Binary Coded Decimal Number  
 (a) 8 (b) 4  
 (c) 2 (d) 1
62. All Keywords in c programming is  
 (a) Lower case  
 (b) Upper case  
 (c) Both upper and lower cases  
 (d) Digits only
63. In the specifications of a network interface card 10/100 stands for  
 (a) Length of Media  
 (b) Mega bits per second  
 (c) Protocol  
 (d) None of these
64. Ripple factor of Halfwave rectifier is  
 (a) 1.21  
 (b) 0.482  
 (c) 40.6  
 (d) 81.2
65. Major application of a Varactor diode is  
 (a) Rectifier  
 (b) Voltage doubler  
 (c) Demodulator  
 (d) Tuning circuit
66. Cut-in voltage of a Germanium diode is  
 (a) 0.2 V  
 (b) 0.6 V  
 (c) 1.0 V  
 (d) 0.7 V
67. Which of the following has highest internal resistance?  
 (a) A constant current source

- (b) A constant voltage source  
(c) Both of these  
(d) None of these
68. A DC current source has a short circuit current of 4 mA and an open-circuit voltage of 20 V. The internal resistance is  
(a) 5 K $\Omega$   
(b) 100  $\Omega$   
(c) 4 K $\Omega$   
(d) 100 K $\Omega$
69. The overall gain of RC coupled amplifier is small due to  
(a) Large bandwidth  
(b) Loading effect of successive stages  
(c) Impedance of capacitor  
(d) None of these
70. Intrinsic standoff ratio is the characteristics of  
(a) Semi-conductor  
(b) Tunnel diode  
(c) FET  
(d) UJT
71. Stability of a circuit increases with  
(a) Positive feedback  
(b) Negative feedback  
(c) Current series feedback  
(d) Both (1) and (2)
72. An emitter follower is  
(a) Current series feedback circuit  
(b) Voltage series feedback circuit  
(c) Both (1) and (2)  
(d) None of these
73. The output frequency of a crystal oscillator is stable because of  
(a) High Q of the crystal  
(b) Low XL/R Ratio  
(c) Rigid Crystal Structure  
(d) Small size
74. An Ideal Op-Amp has  
(a) Zero output resistance  
(b) Infinite Voltage gain  
(c) Infinite input impedance  
(d) All of these
75. An example for wave shaping circuit is  
(a) Astable Multi-vibrator  
(b) RC Relaxation oscillator  
(c) Schmitt Trigger  
(d) None of these
76. Number of diodes in a bridge rectifier is  
(a) 2  
(b) 4  
(c) 1  
(d) None of these
77. Bucking voltage is another name for  
(a) Back emf  
(b) Breakdown voltage  
(c) Saturation voltage  
(d) Knee voltage
78. The gain of amplifier in RC phase shift oscillator should be  
(a) 180 (b) 1  
(c) 28 (d) 29
79. In a PTC thermistor, the temperature at which resistance increases rapidly is known as  
(a) Temperature coefficient  
(b) Switching point  
(c) Break point  
(d) Valley point
80. Forbidden energy gap of Germanium is  
(a) 0.72 eV  
(b) 1.12 eV  
(c) 1.1 eV  
(d) 2.1 eV
81. Esaki diode is another name for  
(a) Schottky Diode  
(b) PIN Diode  
(c) Tunnel Diode  
(d) DIAC
82. In a signed binary number, the sign used to indicate a negative number is  
(a) 0  
(b) 1  
(c) 00  
(d) None of these
83. Which one is a serial to parallel converter?  
(a) Decoder  
(b) Multiplexer  
(c) De-Multiplexer  
(d) Both (1) and (2)
84. Number of modes of operations in TRIAC  
(a) 4 (b) 2  
(c) 5 (d) 1
85. Which one is not a networking component?  
(a) RS 232  
(b) NIC  
(c) Router  
(d) Bridge
86. How many bytes of bits addressable locations are present in 8051 microcontroller?  
(a) 20 (b) 16  
(c) 8 (d) 32
87. Instruction queue size in 8086 is ----- bytes.  
(a) 6 (b) 8  
(c) 12 (d) 16
88. Number of transistors integrated in 8086 microprocessor  
(a) 32000  
(b) 29000  
(c) 20000  
(d) 64000
89. Inelastic scattering of photon is defined by  
(a) Hall effect  
(b) Miller effect  
(c) Multiple scattering  
(d) Raman effect
90. Rise time budget is related to  
(a) Microwave link  
(b) RF link  
(c) Optical link  
(d) None of these
91. Johnson-Nyquist noise is another name for ----- noise.  
(a) Short noise  
(b) Flicker noise  
(c) Transit time noise  
(d) Thermal noise
92. According to -----, a spatially varying electric field is always associated with a magnetic field that changes over time.  
(a) Lens law  
(b) Faraday's law  
(c) Flemings LH law  
(d) Maxwells equations
93. A hollow conductive metal pipe used for communication is called  
(a) Microwave link  
(b) Wave Guide  
(c) Duct  
(d) OFC
94. Which one is not an embedded operation system?  
(a) Android  
(b) WebOS  
(c) iOS  
(d) Solaris
95. The first Personal Computer (PC) was introduced by  
(a) IBM  
(b) Intel  
(c) Microsoft  
(d) Sun Microsystems
96. IEEE 802.11 is the standard used for  
(a) GSM  
(b) CDMA  
(c) Ethernet  
(d) WLAN
97. The point of intersection of DC and AC load lines is called  
(a) Saturation point  
(b) Cut-off point  
(c) Operating point  
(d) Peak point
98. A zener diode that has very narrow depletion layer will breakdown by ----- mechanism.  
(a) Zener breakdown  
(b) Avalanche breakdown  
(c) Both (1) and (2)  
(d) None of these
99. In a multivibrator, we have ----- feedback.  
(a) Negative feedback  
(b) 50% positive feedback  
(c) 100% positive feedback  
(d) None of these
100. For display of signal pattern ----- voltage is applied to the horizontal plates of a CRO.  
(a) Sinusoidal  
(b) Saw tooth  
(c) Triangular  
(d) Rectangular