

1. For parallel capacitors, total charge is \_\_\_\_\_  
a) The sum of individual charges                      b) Equal to the charge of either capacitors  
c) Equal to the product of the charges                d) The quotient of the charges
2. A rheostat is a form of \_\_\_\_\_  
a) Variable capacitor                                      b) Variable resistor  
c) Potentiometer    d) Thermocouple
3. In the IEEE standards 802.5 standard is also called?  
a) Ethernet    b) Token bus  
c) Wireless Token area Network                        d) Token Ring
- 4) The usual load of a DC circuit is a/an  
a) Capacitor    b) Resistor  
c) Inductor     d) Both Inductor and Capacitor
5. In active filter, what type of filter passes a range of frequency and a certain higher frequency?  
a) Band-pass    b) High pass    c) Low pass    d) Band-stop
6. What causes a very small current in reversed- bias condition?  
a) Majority carriers    b) Minority carriers  
c) Forward current    d) Reverse current
7. An IC that transforms parallel data to serial in the asynchronous format and vice versa.  
a) UART    b) USART    c) MODEM    d) RS232C
8. An instruction that causes data to be brought from memory into an accumulator register.  
a) LOOP    b) LOAD    c) FETCH    d) JUMP
9. What is the most commonly used type of linear IC?  
a) Operational amplifier                                    b) 555timer    c) 741    d) LM340
10. A digital circuit that produces an output code depending on which of its inputs is activated.  
a) Encoder    b) Decoder    c) Multiplexer    d) Demultiplexer
11. Perform binary subtraction to  $6\frac{1}{4}$  and  $4\frac{1}{2}$  would result to  
a) 1001.01    b) 1.00    c) 10.11    d) 1.11
12. The current needed to operate a soldering iron which has a rating of 600 watts at 110 volts is \_\_\_\_\_  
a) 5.455A    b) 66,000A    c) 18,200A    d) 182A
13. If a dry cell has an internal resistance of 0.50 ohm and an e.m.f of 2 volts, find power delivered in a one ohm resistor?  
a) 1.33 watts    b) 1.66 watts    c) 1.77 watts    d) 3.66 watts
14. How much voltage regulation does commercial power supply have?  
a) 10% and above    b) Within 1%    c) 15% and above    d) 10%
15. \_\_\_\_\_ is a linear electronic voltage regulator  
a) A regulator that has a ramp voltage regulator



28. Which of the following is an indirect way of generating FM?  
 a) Varactor diode modulator                      b) Armstrong modulator  
 c) Reactance FET modulator                      d) Reactance bipolar transistor
29. The effect of adding poles and zeros can be determined quickly by \_\_\_\_  
 a) Nichols chart                      b) Bode plot                      c) Nyquist plot                      d) Root locus
30. The switching from one element to the other element in a typical mobile satellite array.  
 a) Series                      b) Radial                      c) Shunt                      d) Matrix
31. In a transistor leakage current mainly depends on \_\_\_\_  
 a) Temperature                      b) Size of emitter  
 c) Rating of transistor                      d) Doping of base
32. A debouncing circuit is \_\_\_\_\_.  
 a) An astable MV                      b) a bistable MV                      c) A Latch                      d) a monostable MV
33. A dc circuit breaker must use  
 a) Natural commutation                      b) Both natural and forced commutation  
 c) Either natural or forced commutation                      d) Forced commutation
34. Which of these devices have four layers?  
 a) SCR                      b) UJT                      c) TRIAC                      d) SCR and TRIAC
35. HDLC is \_\_\_\_  
 a) None of the above                      b) Code transparent  
 c) Code dependent                      d) Bit oriented
36. Which of the following number is divisible by 24?  
 a) 31214                      b) 61212                      c) 512216                      d) 3125832
37. What least number should be added to 1056, so that the sum is completely divisible by 23?  
 a) 2                      b) 3                      c) 4                      d) 1
38.  $1531 \times 132 + 1531 \times 68 = ?$   
 a) 306000                      b) 306100                      c) 306400                      d) 306200
39. Find the odd man out. 1, 5, 11, 17, 23, 29  
 a) 29                      b) 1                      c) 11                      d) 17
40. 9, 35, 91, 189, 341, ?  
 a) 559                      b) 521                      c) 502                      d) 611
41. Two trains of equal length are running on parallel lines in the same direction at 46 km/hr and 36 km/hr. If the faster train passes the slower train in 36 seconds, what is the length of each train?  
 a) 88                      b) 70                      c) 50                      d) 62
42. AI, BJ, CK, ?  
 a) GH                      b) DM                      c) DL                      d) LM

43. J2Z, K4X, 17V,?, H16R, M22P

- a) L11S                                      b) L12T                                      c) L12S                                      d) L11T

44. Find the odd one out

- a) fish: pisciculture                                      b) birds: horticulture  
c) bees: apiculture                                      d) silkworm: sericulture

45. If ELCSUM is the code for MUSCLE, which word has the code LATIPAC?

- a) CAPRICE                                      b) CONFESS                                      c) CAPITAL                                      d) CONDUCE

46. Dawn : Dusk : : Inauguration : ?

- a) Invitation                                      b) Repetition                                      c) Valediction                                      d) Organization

47. Pointing towards a person, a man said to a woman, "His mother is the only daughter of your father."  
How is the woman related to that person?

- a) Sister                                      b) Mother                                      c) Daughter                                      d) Wife

48. Choose the word that is a necessary part of the following word.

BOOK

- a) Pages                                      b) fiction                                      c) Pictures                                      d) learning

49. Pen is to poet as needle is to

- a) Thread                                      b) Tailor                                      c) Sewing                                      d) Button

50. Which word does NOT belong with the others?

- a) Peninsula                                      b) Bay                                      c) Island                                      d) Cape