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**RPSC**

**Previous Year Paper  
Lecturer (2014)**



Section 1 - Lect Electrical Engg

No. of Questions: 100

Duration in Minutes: 120

1) The stator of a 415V, 50 Hz, 4-pole slip ring Induction Motor is excited by rated frequency with slip rings open circuited. The rotor is made to rotate at a speed of 600 rpm in the opposite direction to the normal direction, The frequency of induced voltage across slip ring is

- A) 30 Hz
- B) 70 Hz
- C) 20 Hz
- D) 35 Hz

---

2) A DC shunt motor has rated rpm of 480. Certain industrial application requires this motor to run at 540 rpm for some time. Which speed control will be desirable?

- A) Ward Leonard control
- B) Armature current control
- C) Field resistance control
- D) It is not possible to run the motor at more than the rated rpm

---

3) A single phase transmission line consists of two parallel conductors one meter apart and 1.25 cm in diameter. The loop inductance per km of the line is:

- A)  $21.3 \times 10^{-4}$  Henry/ km
- B)  $34.3 \times 10^{-7}$  Henry/ km
- C)  $11.5 \times 10^{-7}$  Henry/ km
- D)  $19.5 \times 10^{-7}$  Henry/ km

---

4) Capacitance grading of cable implies

- A) grading according to capacitance of cables per kilometer length
- B) cables using single dielectric in different concentrations
- C) use of dielectrics of different permeabilities
- D) capacitance required to be introduced at different length to counter the effect of inductance

---

5) One out of the following statements is not true:

- A) The curl of gradient of any scalar field is identically zero
- B) The divergence of curl of any vector field is identically zero
- C) A field, which has zero divergence, is said to be solenoidal
- D) A field, whose curl is zero, is said to be rotational

---

6) In a loss-free R-L-C circuit the transient current will be:

- A) Oscillating
  - B) Non-oscillating
  - C) Sinusoidal wave
  - D) Square wave
-

7) Which statement out of the following is a wrong statement with regard to Induction motor?

- A) Auto-transformer starter is costlier to "direct on line" (DOL) starter
- B) DOL starter is used for motors up to 5 horse power only
- C) Auto transformer starter is used for motors up to 20 horse power only
- D) Star delta starter connects the motor first in delta at the time of starting then in star for running

---

8) In the measurement of power of balanced load by two wattmeter method in a 3-phase circuit, The readings of the wattmeters are 4 kW and 2 kW respectively, the later is being taken after reversing the connections of current coil. the power factor and reactive power of the load is

- A) 0.2 & 6 kVAR
- B) 0.2 &  $6\sqrt{3}$  kVAR
- C) 0.32 & 2 kVAR
- D) 0.32 &  $2\sqrt{3}$  kVAR

---

9) The RMS value of a half-wave rectified current is 10 Ampere. Its value for full-wave rectification would be:

- A) 10 Ampere
- B) 14.14 Ampere
- C) 31.4 Ampere
- D) 20 Ampere

---

10) One of the following does not represent a valid combination of 'Class' of insulating material and its limiting temperature in 'Degree Centigrade'.

- A) 'Class- A' – 105°C
- B) 'Class- F' – 155°C
- C) 'Class- H' – 180°C
- D) 'Class- B' – 120°C

---

11) On a base of 132 kV, 100 MVA, a transmission line has 0.2 per unit impedance. On a base of 220 kV, 50 MVA, it will have a per unit impedance of:

- A)  $0.2 * \frac{50}{100} * \left(\frac{220}{132}\right)^2$
- B)  $0.2 * \frac{100}{50} * \left(\frac{132}{220}\right)^2$
- C)  $0.2 * \frac{50}{100} * \left(\frac{132}{220}\right)^2$
- D)  $0.2 * \frac{100}{50} * \left(\frac{220}{132}\right)^2$

12) In which of the following power plants the availability of power is least reliable?

- A) Solar power plant
  - B) Wind energy
  - C) Tidal power plant
  - D) Geothermal power plant
- 

13) Overall thermal efficiency of a steam power station in India is in the range:

- A) 18-24 percent
  - B) 30-40 percent
  - C) 44-62 percent
  - D) 68-79 percent
- 

14) A system having T.F.  $\frac{1}{(s+1)}$  is excited by a step function of magnitude '3'. The time required by output to reach upto 96% of its steady state value is

- A) 0.54 sec
  - B) 1.23 sec
  - C) 2.08 sec
  - D) 3.22 sec
- 

15) The burden value in Potential Transformer (PT) should be \_\_\_\_\_ to achieve low errors in PT:

- A) low
  - B) high
  - C) medium
  - D) infinite
- 

16) For complete protection of a three-phase line:

- A) three Phase relays and three Earth fault relays are required
  - B) three Phase relays and two Earth fault relays are required
  - C) two Phase relays and two Earth fault relays are required
  - D) two Phase relays and one Earth fault relay are required
- 

17) For a waveform to be expressed in Fourier series, which of the following conditions must be satisfied?

- I. Maxwell's conditions,
- II. Dirichlet conditions,
- III. Sampling Theorem

- A) I only
  - B) II only
  - C) II and III only
  - D) I, II and III
-

18) Which one is not a valid condition for the wave winding?

- A) Back pitch and front pitch are of the same sign
  - B) Back pitch and front pitch are odd numbers
  - C) Back pitch and front pitch may differ by two and may be equal also
  - D) Commutator pitch is always unity
- 

19) For rural electrification in a country like India with complex networks, it is preferable to use:

- A) Air circuit breaker
  - B) Oil circuit breaker
  - C) Vacuum circuit breaker
  - D) Minimum oil circuit breaker
- 

20) Which of the following statements is incorrect?

- A) During parallel resonance impedance at resonance is minimum
  - B) During parallel resonance current is magnified
  - C) During series resonance current at resonance is maximum
  - D) During series as well as parallel resonance, the power factor is unity
- 

21) One of the following is not the Maxwell's equation:

A)  $\nabla \cdot \mathbf{D} = \rho_v$

B)  $\nabla \cdot \mathbf{B} = \mathbf{J}$

C)  $\nabla \times \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t}$

D)  $\nabla \times \mathbf{H} = \mathbf{J} + \frac{\partial \mathbf{D}}{\partial t}$

---

22) One of the following is not a valid statement:

- A) Fleming's right hand rule is used to find out the direction of current in the conductor of a generator
  - B) Fleming's left hand rule is used to find out the direction of rotation of the armature of DC motor
  - C) Ampere's rule is used to find out the direction of lines of force around the wire carrying current
  - D) Right hand thumb rule is used to find out the direction of counter current produced in the armature magnetic field
- 

23) The number of electrical degrees 'passed through' in one revolution of a 6-pole synchronous alternator is:

- A) 360 degree
  - B) 720 degree
-

- C) 1080 degree
  - D) 2160 degree
- 

24) Following is not the property of a complete incidence matrix:

- A) Algebraic sum of the column entries of an incidence matrix is zero
  - B) The rank of a complete incidence matrix of a connected graph is  $(n - 1)$ , where  $n$  is total number of nodes
  - C) Order of a complete incidence matrix will be  $(n * b)$ , where  $b$  is total number of branches and  $n$  is total number of nodes
  - D) Determinant of the incidence matrix of a closed loop is not zero.
- 

25) An ideal current source has zero:

- A) internal resistance
  - B) internal conductance
  - C) voltage at no-load
  - D) ripples
- 

26) If the frequency of input voltage of a transformer is increased keeping the magnitude of voltage unchanged, then:

- A) both hysteresis loss and eddy current loss in the core will increase
  - B) hysteresis loss will increase but eddy current loss will decrease
  - C) hysteresis loss will decrease but eddy current loss will increase
  - D) hysteresis loss will decrease but eddy current loss will remain unchanged
- 

27) The superposition theorem is applicable to:

- A) linear response only
  - B) linear and non-linear response
  - C) non-linear and time-variant response
  - D) linear, non-linear and time-variant response
- 

28) Which motor is generally used in Tap Recorders?

- A) universal motor
  - B) reluctance motor
  - C) split phase motor
  - D) hysteresis motor
- 

29) A gas turbine works on:

- A) Carnot cycle
  - B) Brayton cycle
  - C) Dual cycle
  - D) Rankine cycle
-

30) In practice, a current source inverter consists of an AC/ DC converter with a large inductance 'L' in the output. This inductance maintains a ..... through the switching devices over short interval of time.

- A) constant current
  - B) constant voltage
  - C) constant power
  - D) none of the (A), (B), (C)
- 

31) If the input to a differentiating circuit is a saw-tooth wave, then output will be ..... wave:

- A) square
  - B) rectangular wave
  - C) triangular wave
  - D) rectified sine wave
- 

32) A unit ramp function when integrated yields:

- A) unit parabolic function
  - B) unit ramp function
  - C) unit doublet
  - D) unit impulse function
- 

33) Which of the following statements is not valid in case of conductors in electrostatic fields?

- A) The static electric field intensity inside a conductor is zero
  - B) The static electric field intensity at the surface of a conductor is everywhere directed normal to the surface
  - C) The conductor surface is an equivalent potential surface
  - D) None of the above
- 

34) The leakage flux in a transformer depends upon:

- A) load current
  - B) load current and voltage
  - C) load current, voltage and frequency
  - D) load current, voltage, frequency and power factor
- 

35) Which of the following company is associated with manufacture of high capacity transformers in India?

- A) M/S National Thermal Power Corporation Limited
  - B) M/S Bharat Heavy Electricals Limited
  - C) M/S Heavy Engineering Corporation Limited
  - D) M/S Electricity Authority of India
- 

36) In case of semi-conductors, the ratio of conduction current to displacement current is:

- A) more than 200 and less than 1000
- B) less than 100 but greater than 1/100

- C) less than 1/100
  - D) more than 1000
- 

37) A large hydropower station has a head of 324 metre and an average flow of 1370 metre<sup>3</sup>/second. The available hydraulic power from this station will be:

- A) 4.35 MW
  - B) 4.15 MW
  - C) 4.47 MW
  - D) 4.73 MW
- 

38) Which among the given statement is/are CORRECT.

- (a) Avalanche breakdown voltage increases with temperature
- (b) Zener breakdown voltage decreases with temperature

- A) Only (a)
  - B) Only (b)
  - C) Both (a) & (b)
  - D) None of (a) & (b)
- 

39) The operation of the relay which is most affected due to arc resistance is

- A) Mho relay
  - B) Reactance relay
  - C) Impedance relay
  - D) All are equally affected
- 

40) The reactance relay is essentially:

- A) an over-voltage relay with current restraint
  - B) an over-voltage relay with directional restraint
  - C) a directional relay with voltage restraint
  - D) a directional relay with current restraint
- 

41) An 8-pole alternator runs at 750 rpm and supplies power to a 6-pole induction motor which has a full load slip of 3 percent. The full load speed of the induction motor will be:

- A) 1000 rpm
  - B) 920 rpm
  - C) 950 rpm
  - D) 970 rpm
- 

42) For AC networks, as per maximum power transfer theorem, for maximum power transfer, the source impedance should be equal to:

- A) twice the load impedance
  - B) complex conjugate of load impedance
-

- C) twice the complex conjugate of load impedance
  - D) none of these
- 

43) In power station practice "spinning reserve" is:

- A) reserve generating capacity that is in operation but not in service
  - B) reserve generating capacity that is connected to bus and ready to take the load
  - C) reserve generating capacity that is available for service but not in operation
  - D) capacity of the part of the plant that remains under maintenance
- 

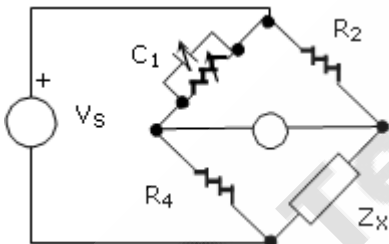
44) An open loop system represented by the transfer function

$$G(s) = \frac{(s - 1)}{(s + 2)(s + 3)} \text{ is}$$

- A) Stable and of the minimum phase type
  - B) Stable and of the non - minimum phase type
  - C) Unstable and of the minimum phase type
  - D) Unstable and of non-minimum phase type
- 

45) The bridge circuit shown in the figure below is used for the measurement of an unknown element ZX.

The bridge circuit is best suited when ZX is a



- A) low resistance
  - B) high resistance
  - C) low Q inductor
  - D) lossy capacitor
- 

46) Which of the following plants will take least time in starting from cold conditions to full-load operation?

- A) Nuclear power plant
  - B) Steam power plant
  - C) Hydro-electric power plant
  - D) Gas turbine plant
- 

47) Which of the following are the basic elements in a 555 timer IC?

- (a) Two comparators
-

- (b) A flip-flop
- (c) A discharge transistor
- (d) A resistive voltage divider

- A) (a), (b) and (d)
  - B) only (a), (b) and (c)
  - C) only (b), (c) and (d)
  - D) only (a), (b), (c) and (d)
- 

48) Which waveform out of the following waves has the least value of form-factor:

- A) Triangular wave
  - B) Square wave
  - C) Rectangular wave
  - D) Sine wave
- 

49) Which type of protection is provided on a generator to protect against stator insulation failure?

- A) Differential protection
  - B) Overcurrent relay
  - C) Thermocouple actuated alarm
  - D) Reverse power relay
- 

50) In an alternator if the winding is short pitched by 60 electrical degrees, its pitch factor will be:

- A) 1.0
  - B) 0.866
  - C) 0.75
  - D) 0.50
- 

51) The inertia constant of a 100 MVA, 11 kV water wheel generator is 4. The energy stored in the rotor at the synchronous speed is:

- A) 400 Mega Joule
  - B) 400 Kilo Joule
  - C) 25 Mega Joule
  - D) 25 Kilo Joule
- 

52)

If the voltage across and the current into a certain load or part of the circuit are expressed by  $V = |V| \angle \alpha$ , respectively. Reactive power ( $VI^*$ ) will be ..... when the phase angle  $\angle(\alpha - \phi)$  and current is .....

- A) positive, positive
  - B) negative, negative
  - C) negative, positive
  - D) positive, negative
-

53) The reflection coefficient of a short-circuited line for voltage is:

- A) -1
  - B) +1
  - C) 0.5
  - D) zero
- 

54) The typical ratio of latching current to holding current in a 20A thyristor is

- A) 5.0
  - B) 2.0
  - C) 1.0
  - D) 0.5
- 

55) If the primary fault current is 2000 ampere, the relay setting current is 50 percent and the CT ratio is 400/5, then the plug-setting multiplier is:

- A) 25
  - B) 15
  - C) 50
  - D) None of the above
- 

56) Highest flux density exists inside which of the following instruments?

- A) Electrodynamic instruments
  - B) Hot wire instruments
  - C) Moving iron instruments
  - D) Moving coil instruments
- 

57) The current gain of emitter follower is:

- A) less than one
  - B) more than one
  - C) zero
  - D) unpredictable
- 

58) A half-controlled single-phase bridge rectifier is supplying an R-L load. It is operated at a firing angle  $\alpha$  and the load current is continuous. The fraction of cycle that the freewheeling diode conducts is

- A)  $\frac{1}{2}$
- B)  $1 - \frac{\alpha}{\pi}$
- C)  $\frac{\alpha}{2\pi}$

D)  $\frac{\alpha}{\pi}$

---

59) Which statement out of the following statements about 'corona' is incorrect?

- A) Corona gives rise to radio interference
  - B) Corona results in loss of power in transmission
  - C) Corona discharge can be observed as red luminescence
  - D) Corona is always accompanied by a hissing voice
- 

60) A three-phase transformer, connected in star-delta, is composed of three single-phase transformers, each rated 127/ 13.2 kV. The line-to-line voltage ratio for the three-phase transformer is:

- A) 220 / 13.2 kV
  - B) 127 / 13.2 kV
  - C) 127 / 220 kV
  - D) 220 / 220 kV
- 

61) Synchronous wattage of induction motor means:

- A) rotor input in watts
  - B) stator input in watts
  - C) combined stator and rotor input in watts
  - D) shaft output in watts
- 

62) The average power delivered to an impedance  $4 - j3 \Omega$  by a current  $5\cos(100\pi t + 100)$  Ampere is

- A) 44.2 W
  - B) 50 W
  - C) 62.5 W
  - D) 125 W
- 

63) Two 220 volt lamps, one of 60 watt and the other of 75 watt are connected in series across a 440 volt supply. The potential difference across 60 watt lamp will be:

- A) 195 volt
  - B) 220 volt
  - C) 245 volt
  - D) 440 volt
- 

64) lumen / watt is the unit of:

- A) light flux
  - B) luminous intensity
  - C) brightness
  - D) luminous efficiency
-

65) The load-flow solution is always assured in case of:

- A) Newon-Raphson method
  - B) Gauss-Seidal method
  - C) Fast Decoupled method
  - D) None of these methods guarantee
- 

66) Full load current of an Induction motor is 20 Ampere. The no-load current may be expected to be:

- A) 25 Ampere to 28 Ampere
  - B) 15 Ampere to 18 Ampere
  - C) 11 Ampere to 14 Ampere
  - D) 6 Ampere to 10 Ampere
- 

67) Which of the following relation is incorrect?

- A) capacity factor = utilization factor  $\times$  load factor
  - B) load factor  $\times$  maximum load = average load
  - C) demand factor  $\times$  connected load = maximum demand
  - D) none of these
- 

68) The inrush current of a transformer at no-load is maximum, if it is switched-on when the supply voltage is at:

- A) zero voltage value
  - B) at peak voltage value
  - C) at half of the peak voltage value
  - D) at 0.866 of the peak voltage value
- 

69) A generating station has a maximum demand of 500 MW. The annual load factor is 50 percent. The energy generated per annum will be:

- A)  $2.19 \times 10^6$  MWhr
  - B) 600 MWhr
  - C) 250 MWhr
  - D)  $7.50 \times 10^6$  MWhr
- 

70) A DC reactor is connected in series with each pole of a converter station in order to:

- A) prevent commutation failures in the inverter
  - B) supply reactive power to the converter
  - C) improve system stability
  - D) increase the power transfer capability
- 

71) The total inductance of two coupled coils in the 'series aiding' and 'series opposing' connections are  $1.4 \times 10^{-3}$  Henry and  $0.6 \times 10^{-3}$  Henry, respectively. The value of mutual inductance will be:

- A)  $0.8 \times 10^{-3}$  Henry
- B)  $10^{-3}$  Henry

- C)  $0.2 \times 10^{-3}$  Henry
  - D)  $0.5 \times 10^{-3}$  Henry
- 

72) Two stator windings of AC servomotors are oriented:

- A) 90 degree (mechanical) apart
  - B) 90 degree (electrical) apart
  - C) 180 degree (mechanical) apart
  - D) 180 degree (electrical) apart
- 

73) A 10A DC Ammeter has a resistance of  $0.1 \Omega$  is to be extended to 50 A, the required shunt wire is

- A) Manganin wire of  $20 \text{ m } \Omega$
  - B) Constantan wire of  $20 \text{ m } \Omega$
  - C) Manganin wire of  $25 \text{ m } \Omega$
  - D) Constantan wire of  $25 \text{ m } \Omega$
- 

74) Two single-phase 150 kVA, 7200/ 600 volt transformers are connected in open-delta. The maximum three-phase load that they can carry is:

- A) 300 kVA
  - B) 75 kVA
  - C) 259 kVA
  - D) 249 kVA
- 

75) A DC Motor develops a torque of 150 N-m. A 10 percent reduction in the field flux causes a 50 percent increase in armature current. The new value of torque is:

- A) 102.5 N-m
  - B) 202.5 N-m
  - C) 172.5 N-m
  - D) 232.5 N-m
- 

76) Natural commutation means:

- A) reducing the thyristor current to zero
  - B) reducing the thyristor current below "holding current"
  - C) reducing the current to zero and allowing time to recover thyristor junctions
  - D) none of (A), (B) and (C)
- 

77) The characteristic equation of a simple servo system is  $s^2+6s+25=0$ . Damping factor of the system is:

- A) 3.2
  - B) 2.4
  - C) 1.8
  - D) 2.9
-

78) The property of materials by which they can be drawn into wires is known as:

- A) malleability
  - B) elasticity
  - C) creep
  - D) ductility
- 

79) Full load copper loss in a transformer is 1600 watts. At half load the copper loss will be:

- A) 6400 watt
  - B) 1600 watt
  - C) 800 watt
  - D) 400 watt
- 

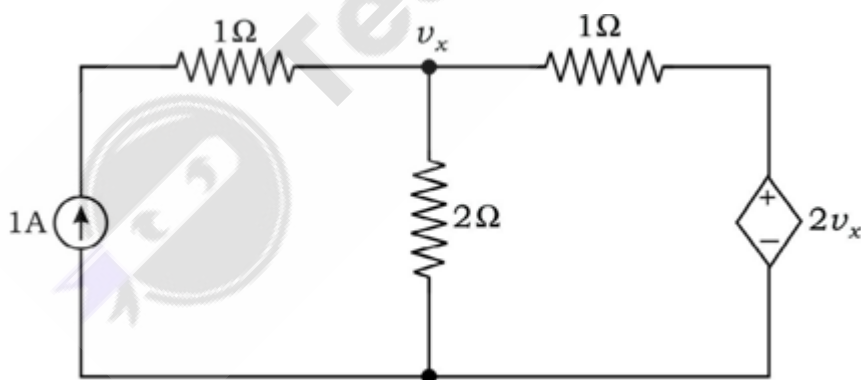
80) Which braking system on the locomotives is the costliest among the following?

- A) Vacuum braking on diesel locomotives
  - B) Vacuum braking on steam locomotives
  - C) Regenerative braking on electric locomotives
  - D) All braking systems are equally costly
- 

81) In a microprocessor, the address of the next instruction to be executed, is stored in

- A) Stack pointer
  - B) Address latch
  - C) Program counter
  - D) General purpose register
- 

82)  $v_x$  in the network below is:



- A) 1 Volt
  - B) -2 Volt
  - C) -1 Volt
  - D) 2 Volt
- 

83) A system is critically damped. If the gain of the system is increased, the system will behave as:

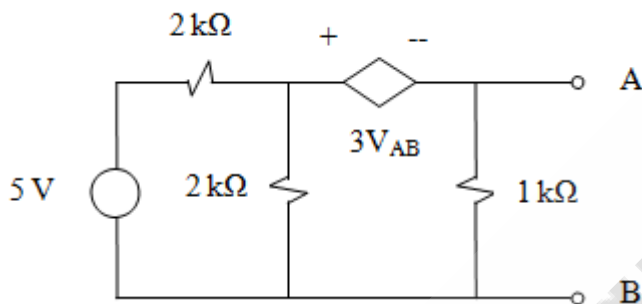
- A) overdamped
-

- B) underdamped
- C) oscillatory
- D) critically damped

84) An ideal voltage source will charge an ideal capacitor

- A) in infinite time
- B) exponentially
- C) instantaneously
- D) cannot be guessed

85) For the circuit given below, the Thevenin's resistance across the terminals A and B is



- A) 2 kΩ
- B) 0.2 kΩ
- C) 5 kΩ
- D) 0.5 kΩ

86) A high-pass filter has a resistance  $R = 2 \text{ k}\Omega$ . The lowest input frequency to be passed is 7.5 kHz. The value of suitable coupling capacitor must be:

- A) 0.001 pico Farad
- B) 0.01 pico Farad
- C) 0.1 pico Farad
- D) 1 pico Farad

87) A long transmission line has considerable ..... effect.

- A) series capacitance
- B) shunt capacitance
- C) series inductance
- D) shunt inductance

88) For the protection of parallel feeders fed from one end, the relays used are:

- A) non-directional relays at the source-end and directional relays at the load-end
- B) non-directional relays at both the ends
- C) directional relays at the source-end and non-directional at the load-end
- D) directional relays at both the ends

89) The bridge used to measure the dielectric loss of an insulator is:

- A) Anderson bridge
  - B) Wien's bridge
  - C) Schering bridge
  - D) Any of the above
- 

90) In a series RLC circuit at resonance, the magnitude of the voltage developed across the capacitor

- A) is always zero
  - B) can never be greater than the input voltage
  - C) can be greater than the input voltage, however, it is  $90^\circ$  out of phase with the input voltage
  - D) can be greater than the input voltage, and is in phase with the input voltage.
- 

91) A 200 milli-Ampere meter has accuracy of  $\pm 0.5$  percent. Its accuracy while reading 100 milli-Ampere will be:

- A)  $\pm 2.5$  percent
  - B)  $\pm 5$  percent
  - C)  $\pm 7.5$  percent
  - D)  $\pm 10$  percent
- 

92) In air-blast circuit breakers, the pressure of the air is of the order of:

- A) 100 mm Hg
  - B)  $1 \text{ kg / cm}^2$
  - C)  $20 \text{ kg / cm}^2$  to  $30 \text{ kg / cm}^2$
  - D)  $200 \text{ kg / cm}^2$  to  $300 \text{ kg / cm}^2$
- 

93) A passive 2-port network is in a steady-state compared to its input, the steady state output can never offer

- A) higher voltage
  - B) lower impedance
  - C) greater power
  - D) better regulation
- 

94) Decimal equivalent of Hexadecimal number  $(C3B1)_{16}$  is:

- A) 12197
  - B) 32097
  - C) 52097
  - D) 50097
- 

95) The driving power from the prime-mover driving the alternator is lost but the alternator remains connected to the supply network; the field supply also remains on. The alternator will:

- A) get burnt
  - B) behave as an induction motor but will rotate in the opposite direction
  - C) behave as a synchronous motor and will rotate in the same direction
  - D) behave as a synchronous motor but will rotate in a reverse direction to that corresponding to generator action
- 

96) Impulse testing of transformers is done to determine the ability of:

- A) bushings to withstand vibrations
  - B) insulation to withstand transient voltages
  - C) windings to withstand voltage fluctuations
  - D) all of the above
- 

97) The 8085 assembly language instruction that stores the contents of H and L registers into the memory locations 2050<sub>H</sub> and 2051<sub>H</sub>, respectively, is:

- A) SPHL 2050<sub>H</sub>
  - B) SPHL 2051<sub>H</sub>
  - C) SHLD 2050<sub>H</sub>
  - D) STAX 2050<sub>H</sub>
- 

98) In an 8085 microprocessor, after the execution of **XRA A** instruction

- A) the carry flag is set
  - B) the accumulator contains FF<sub>H</sub>
  - C) the zero flag is set
  - D) the accumulator contents are shifted left by one bit
- 

99) The melting point of carbon is:

- A) 1800 degree Centigrade
  - B) 2200 degree Centigrade
  - C) 3500 degree Centigrade
  - D) 5500 degree Centigrade
- 

100) A power system is subjected to a fault which makes the zero sequence component of current equal to zero. The nature of fault current is:

- A) Double line to ground fault
  - B) Line to line fault
  - C) Line to ground fault
  - D) Three-phase to ground fault
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