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ELECTRICIAN AGRICULTURE(ERNAKULAM)

EXAM DATE:16/11/2016

1.Transformor core is laminated to-----

- A.Reduce the copper loss
- B.Reduces the eddy current loss*
- C.Reduces the core loss
- D.Hysteresis loss

Ans:B

2.Which type of loss is not common to transformer and rotating machines?

- A.Eddy current loss
- B.Copper loss
- C.Hysteresis loss
- D.Windage loss*

Ans:D

3.The difference between the synchronous speed and the actual speed of an induction motor is known as

- A.Slip*
- B.Regulation
- C.Black lash
- D.Lag

Ans:A

4.Three resistances of 30,15,5 ohms are connected in parallel,their combined resistance will be

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- A.Greater than 30 ohm
- B.Between 30 to 15 ohm
- C.Less than 5 ohm*
- D.Between 15 to 5 ohm

Ans:C

5.Which of the following acts as a depolarizer in a dry cell?

- A.Zinc chloride
- B.Carbon powder
- C.Ammonium chloride
- D.Manganese dioxide*

Ans:D

6.Efficiency of a power transformer is of the order of

- A.50%
- B.75%
- C.98%*
- D.45%

Ans:C

7.The strongest dia-magnetic material

- A.Sulphur
- B.Bismuth*
- C.Glass
- D.Graphite

Ans:B

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8.The magnitude of torque developed by a three phase induction motor depends upon

- A.Rotor current,rotor emf,rotor pf*
- B.Supply voltage,stator current,frequency
- C.Number of poles,speed,frequency
- D.Synchronous speed,rotor speed,frequency

Ans:A

9.Rheostat method of speed control of induction motor is used in

- A.Squirrel cage
- B.Slip ring IM*
- C.Double cage IM
- D.All of the above

Ans:B

10.In a three phase IM the number of poles in the rotor winding are

- A.Zero
- B.Less than stator poles
- C.Equal to stator poles*
- D.More than stator poles

Ans:C

11.If the air gap of induction motor is increased

- A.The magnetizing current will increase*
- B.The pf will increase
- C.Speed of the motor will increase
- D.Friction and windage loss will increases

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Ans:A

12.Isolate fire from the supply of oxygen by blanketing it with foam,sand etc

A.Starving

B.Cooling

C.Spray water

D.Smothering*

Ans:D

13.What is the condition of ohm's law?

A.Constant resistance

B.Constant voltage

C.Constant current

D.Constant temperature*

Ans:D

14.Power $p=$

A.Energy/time*

B.Energy/voltage

C.Current/voltage

D.Time/voltage

Ans:A

15.Moving cell instruments are use

A.AC only

B.Both AC/DC

C.DC only*

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D.None of these

Ans:C

16.Low resistance means

A.Up to 10 ohm

B.1 Ohm and below*

C.1000 ohm

D.500 ohm

Ans:B

17.Unit of resistivity

A.Ohm*

B.Ohm-m

C.Ohm m²

D.Ohm/m

Ans:A

18.Kelvin bridge is used for measure:

A.Capacitance

B.Low resistance*

C.Inductance

D.Insulation resistance

Ans:B

19.Resistivity of eureka at 20oC

A. 2.8×10^{-8}

B. 1.72×10^{-8}

C. 49×10^{-8} *

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D. 20.2×10^{-8}

Ans:C

20.Application of series parallel combination:

A.Current divider

B.Maximum resistance

C.Power divider

D.Voltage divider*

Ans:D

21.An earthing electrode usually made of:

A.PVC pipe

B.Carbon plate

C.Glass rod

D.Metal plate*

Ans:D

22.The color of protective conductor:

A.Green-yellow*

B.Green-red

C.Green-blue

D.Green-black

Ans:A

23.The color of middle wire of 3 wire Dc circuit is:

A.Red

B.Black*

C.Blue

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D.Green

Ans:B

24.Example of primary cell:

A.Lead acid cell

B.Edison cell

C.Voltaic cell*

D.Nickel-iron cell

Ans:C

25.The amp-hour efficiency of lead acid cell:

A.75%

B.90-95%*

C.80-85%

D.60-65%

Ans:B

26.High rate discharge tester consists of

A.Low range ammeter

B.High range voltmeter

C.Low range voltmeter*

D.High range ammeter

Ans:C

27.The color of fresh Silica gell is

A.Blue

B.Red

C.Black

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D.Light pink color*

Ans:D

28.Imaginary line joining the two poles of a magnet

A.Magnetic equator*

B.Magnetic pole

C.Magnetic lines

D.Magnetic field

Ans:A

29.Rotor copper loss of a three phase induction motor is

A.Fractional slip x input power to the rotor*

B.Fractional slip x output of the rotor

C.Input power x output power

D.All the above

Ans:A

30.1 Metric horse power is:

A.742 W

B.735 W

C.735.6 W*

D.746 W

Ans:C

31.The back emf set up in the stator of a synchronous motor will depend on

A.Rotor speed only

B.Stator speed only

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C.Rotor emf

D.Rotor excitation*

Ans:D

32.The armature Wdg of repulsion motor is excited:

A.Resistively

B.Inductively*

C.Conductively

D.Capacitively

Ans:B

33.The main disadvantage of shaded pole motor:

A.Low starting torque

B.Little over load capacity

C.Low efficiency

D.All the above*

Ans:D

34.The armature flux opposes the main flux in synchronous machine when the PF is:

A.Unity*

B.Zero lagging

C.Zero leading

D.0.8 lagging

Ans:A

35.Dielectric strength of a medium is:

A.Joules/m²

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B.Coulomb/m²

C.kV/mm*

D.Volt/m²

Ans:C

36.Electric intensity is expressed as:

A.Webber

B.Volt/m*

C.emf

D.Coulomb

Ans:B

37.Whenever two charges are separated there exist:

A.Magnetic field

B.Electric field

C.Electrostatic field

D.Emf*

Ans:D

38.Potential inside the hollow charged sphere:

A.Less than its surface

B.Greater than on its surface

C.Same as on its surface*

D.Zero

Ans:C

39.Capacitance in any circuit is opposition to:

A.Voltage*

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B.Current flow

C.Any change in current

D.Any change in power

Ans:A

40.The simple measuring instrument used to transfer measurement from the steel rule to object

A.Try-square

B.Calliper*

C.Scriber

D.Punch

Ans:B

41.2 Ohm resistance having current of 2 A will dissipate the power of:

A.8 W

B.8 J

C.2 W

D.4 W*

Ans:D

42.If the diameter of a wire is doubled keeping the length constant the resistance:

A.Become one fourth*

B.Become twice

C.Remains same

D.Becomes 4 times

Ans:A

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43.Which of the following is linear and bilateral element?

- A.Semi conductor
- B.Resistor*
- C.Electron tube
- D.Transistor

Ans:B

44.Why accumulators are preferred to pmy cell in motor car?

- A.They are bulk
- B.They have high internal resistance
- C.They can be recharged*
- D.All the above

Ans:C

45.Sedimentation occurs in lead acid cell to:

- A.Over charging at high rate*
- B.Over charging at slow rating
- C.No use for longer period
- D.Slow charged rate

Ans:A

46.Kirchhoff's law are valid for:

- A.Linear circuit
- B.Non linear circuit
- C.Both linear and non-linear circuit*
- D.Passive circuit

Ans:C

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47.The algebraic sum of all IR drops and emf in any closed loop of a network as per KVL is:

- A.+ve
- B.Zero*
- C.-ve
- D.+ve or -ve

Ans:B

48.Form factor is the ratio of

- A.Average value/rms value
- B.Average value x rms value
- C.Instantaneous value/rms value
- D.Rms value/average value*

Ans:D

49.The power factor of the inductive load is:

- A.Leading
- B.Lagging*
- C.Unity
- D.Zero

Ans:B

50.A choke coil has:

- A.High inductive,high resistance
- B.Low inductive,low resistance
- C.Low inductive,high resistance
- D.High inductive,low resistance*

Ans:D

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51.A choke is used for limiting current in:

- A.AC ckt only*
- B.DC ckt only
- C.Both AC and DC
- D.Either AC or DC

Ans:A

52.Impedance at series resonance circuit:

- A.Maximum
- B.Average
- C.Minimum*
- D.All the above

Ans:C

53.Power factor is defined as:

- A.kVA/kVAR
- B.kVA/kW
- C.kW/kVA*
- D.kW/kVR

Ans:C

54.2 Wattmeter method measuring power,2 meters read equal and opposite reading the load power factor:

- A.Zero*
- B.0.5
- C.Unity
- D.Above 0.5

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Ans:A

55.The secondary current of 400 KVA,11 KV/433 V,3 phase transformer is about:

A.420 A

B.533 A*

C.666.5A

D.840 A

Ans:B

56.The current rating of 400 mm² AYFY cable is:

A.400A

B.435A

C.305A

D.335A*

Ans:D

57.The maximum efficiency of distribution transformer is:

A.1/4th load

B.Full load

C.3/4th load

D.Half road*

Ans:D

58.Unit of luminous intensity:

A.Lumen

B.Lux

C.Candela*

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D.Lumen/m

Ans:C

59.The most efficient lamp:

A.Graphene*

B.LED

C.CFL

D.Sodium vapour lamp

Ans:A

60.The larger transformer stepped core arrangement is used to minimize the use of:

A.Core

B.Copper*

C.Hysteresis loss

D.Core loss

Ans:B

61.Examine the Commutator and brushes:

A.Weekly maintenance*

B.Monthly maintenance

C.Daily maintenance

D.Yearly maintenance

Ans:A

62.In DC generator the voltage drop of copper carbon brush is about

A.1.6 V

B.2 V

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C.1/75 V

D.0.3V*

Ans:D

63.Alternator voltage regulation is determined by emf method it is due to:

A.Rothert

B.Behn-Eschenberg*

C.Faraday

D.Pointer

Ans:B

64.The starting torque of capacitor start,capacitor run is about

A.200% of FL torque

B.50% of FL torque

C.300% of FL torque*

D.100% of FL torque

Ans:C

65.The first Director-General of Archaeological Survey of India:

A.Mountbatten

B.Alexander Cunningham*

C.Wheeler

D.Ernest Mackey

Ans:B

66.Name the first Indian to win the World Armateur Billard Title

A.Wilson Jones*

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B.Kamaljit Sandhu

C.Ravi Shastri

D.K.Malleswari

Ans:A

67.In which place the Great Victoria Desert is located?

A.Canada

B.Africa

C.Asia

D.Australia*

Ans:D

68.Name the Kerala ruler who gave his country to Sri Padmanabha as Tripadidana

A.Saktan Thampuran

B.Swati-Tirunal

C.Marthanda Varma*

D.Rama Varma

Ans:C

69.Who was known as frontier Gandhi?

A.Abdul Kalam Azad

B.Muhammed Iqbal

C.Khan Abdul Ghafar Khan*

D.Patel

Ans:C

70.In which year Mountbatten Plan was announced in India?

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A.1947*

B.1946

C.1945

D.1948

Ans:A

71.Director of the film ‘Tamas’explaining about partition of India:

A.Satyajit Rai

B.Govind Nihalani*

C.Mrinali Sen

D.Narain Bharati

Ans:B

72.In which year Sadhujana Paripalana Yogam established?

A.1903

B.1905

C.1907*

D.1910

Ans:C

73.Name the event which is related to Savarna Jatha

A.Shannar Agitation

B.Quit India Movement

C.Attingal Revolt

D.Vaikkom Satyagraha*

Ans:D

74.What is the name of spice which is called as ‘Yavanapriya’?

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A.Ginger

B.Pepper*

C.Cinnamon

D.Cardamom

Ans:B

75.Who was the Viceroy of India during the time of Round Table Conferences?

A.Lord Canning

B.Ramsay Mac Donald

C.Lord Curzon

D.Lord Irvin*

Ans:D

76.The first person who offer Individual Satyagraha in Indian Freedom Movement?

A.Vinobha Bhave*

B.Dr.B.R.Ambedkar

C.Vallabhai Patel

D.Narendra Dutta

Ans:A

77.In which Year Historic Lahore session of Indian National Congress held?

A.1919

B.1929*

C.1930

D.1942

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Ans:B

78.Which is the Name of Commission sent to India to enquire about the work of Govt.of India Act of 1919?

- A.Crips Mission
- B.Wardha Commission
- C.Simon Commission*
- D.Cabinet Commission

Ans:C

79.Which is the birth place of Markuriakose Elias Chavara?

- A.Bharanaganam
- B.Mannanam
- C.Mezhathur
- D.Kainakari*

Ans:D

80.Pattanam was situated in the banks of river-----

- A.Pamba
- B.Bharatapuzha
- C.Periyar*
- D.Kurumalipuzha

Ans:C

81.The Yarkungzangbo river in India is known as-----

- A.Brahmaputra*
- B.Mahanadi
- C.Kaveri

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D.Sindhu

Ans:A

82.The Power to Prorogue the Lok Sabha rests with-----

A.Speaker

B.President*

C.Supreme Court

D.Prime Minister

Ans:B

83.Who is the Founder of Samatwa Samaj?

A.Chattampi Swamikal

B.Ayyankali

C.Vaghbhatananda

D.Vaikunda Swamikal*

Ans:D

84.The Political Guru of Mahatma Gandhi:

A.Gokhale*

B.Tilak

C.Surendra Nath Banerjee

D.Dadabhai Naoroji

Ans:A

85.Repulsion motor is provided with:

A.Commutator*

B.Centrifugal switch

C.Capacitor

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D.Squirrel cage rotor

Ans:A

86.Whenever a poly phase motor is loaded the:

A.Induced emf in the rotor increases and its frequency falls

B.Induced emf in the rotor increases and its frequency rises*

C.Induced in the rotor remains constant

D.Induced emf in the rotor decreases and its frequency increases

Ans:B

87.For three resistance are connected in three phase,the power consumed will be more??-----connection

A.Star delta

B.Star

C.Delta*

D.Delta star

Ans:C

88.Synchronous motors run on leading power factor when connected in:

A.Under excitation

B.Rated excitation

C.Fully loaded

D.Over excitation*

Ans:D

89.The output voltage of a solar cell is approximately:

A.1.2 V

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B.0.5 V*

C.2.1 V

D.3 V

Ans:B

90.Slip rings are generally made of:

A.Phosphoric bronze*

B.Alumini

C.Copper

D.Carbon

Ans:A

91.The hydrometer reading of fully charged lead acid battery:

A.1.2

B.1.5

C.1.11

D.1.26*

Ans:D

92.In induction motor percentage slip is maximum at:

A.Low speed

B.Medium speed

C.Stand still condition*

D.Synchronous speed

Ans:C

93.Economiser is a part of:

A.Hydel PS

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B.Nuclear PS

C.Thermal PS*

D.Diesel PS

Ans:C

94.The crawling in an induction motor is caused by:

A.Improper design of the machine

B.Low voltage supply

C.High load

D.Harmonics developed in the motor*

Ans:D

95.The commutator segments are placed in:

A.Rotor*

B.Stator

C.Armature

D.Field

Ans:A

96.Reduction in the capacitance of capacitor start motor results in reduced:

A.Noise

B.Starting torque*

C.Speed

D.Armature reaction

Ans:B

97.In an ac circuit the ratio of kW/kVA represents:

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- A.Power factor*
- B.Load factor
- C.Starting torque
- D.Diversity factor

Ans:A

98.The unit of inductance is:

- A.OHM
- B.MHO
- C.HENRY*
- D.FARAD

Ans:C

99.Ear to ear resistance of human body:

- A.400
- B.1 Kilo ohms
- C.650 ohms
- D.100 ohms*

Ans:D

100.Centrifugal switches is provided for disconnecting the auxiliary winding in a:

- A.Capacitor run motor
- B.Capacitor start motor*
- C.Reluctance motor
- D.Hysteresis motor

Ans:B

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