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ELECTRICIAN GRADE II,PRINTING(GOVT.PRESS)

EXAM DATE:28-07-2015

1.In two watt meter method of power measurement one Watt meter (W2)shows negative reading to get actual reading

A. W_1+W_2

B. $W_1-W_2^*$

C.W1 only

D.W2 only

Ans:B

2.The condition for maximum running torque for a 3 phase induction motor is:

A. $R_2=SX_2$

B. $R_2=X_2^*$

C. $R_2=X_0^2$

D. $X_2=X_0^2$

Ans:B

3.In a vibrating reed type frequency meter the frequency of supply reads through vibration,the vibration of desired frequency depends upon:

A.Width of the reed

B.Voltage

C.Type of core

D.Length of the reed*

Ans:D

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4. In Induction type watt meter the copper shading Band used for :

- A. Uniforms flux distribution
- B. Damping purpose
- C. Produce exact *
- D. To reduce stray magnetic error

Ans:C

5. -----is not a standard sweep of ceiling fan.

- A. 1250 mm*
- B. 1400 mm
- C. 1050 mm
- D. 1200 mm

Ans:A

6. What are the tests conducted to draw the circle diagram of an induction motor?

- A. SC test and OC test
- B. Swim bearings test
- C. No load test, short circuit test, stator resistance test*
- D. Short circuit test, back to back test

Ans:C

7. The joint used in over head line where considerable tensile strength required is:

- A. Brittonia joint*
- B. Straight married joint
- C. Straight running joint
- D. Brittonia T Joint

Ans:A

8.In Electricians solder the percentage of tin and lead is:

- A.60% lead 40% tin
- B.60% tin 40% lead*
- C.40% tin 60% copper
- D.40% zinc 60% tin

Ans:B

9.In an induction motor the phenomenon found that the motor having a tendency to rotate $1/7^{\text{th}}$ of its normal speed is called:

- A.Cogging
- B.Phase locking
- C.Hunting
- D.Crawling*

Ans:D

10.In repulsion motor the direction of rotation changed by changing:

- A.Brush position*
- B.Field position
- C.Armature position
- D.By interchanging any winding connection

Ans:A

11.The speed of universal motor at no load is about:

- A.3000 rpm
- B.1500 rpm
- C.1000 rpm

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D.20000 rpm*

Ans:D

12.As per IE rule the load in each power sub circuit not exceed:

A.2500 W

B.3000 W*

C.8000 W

D.4000 W

Ans:B

13.The Socket outlet shall be provide in a bathroom at a height not less than:

A.1.2 meter

B.1.5 meter

C.1.3 meter*

D.2 meter

Ans:C

14.The speed control obtained in domestic mixer grinder is:

A.Variable voltage control

B.Tapped field control*

C.Flux control method

D.Armature diverter method

Ans:B

15.Plummet is a measuring tool used for:

A.Horizontal distance

B.Vertical distance

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C.True Horizontal position

D.True vertical position*

Ans:D

16.The speed of turbo generator is usually:

A.300 rpm

B.1000 rpm

C.3000 rpm*

D.6000 rpm

Ans:C

17.Among them which is not a standered size in PVC conduct:

A.15 mm*

B.19 mm

C.32 mm

D.25 mm

Ans:A

18.V curve of a three phase synchronous motor is the relation between:

A.Voltage and current

B.Speed and No of poles

C.Voltage and No.of poles

D.Field current and armature current*

Ans:D

19.The head of high head hydroelectric power plant:

A.100 m

B.200 m*

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C.80 m

D.30 m

Ans:B

20.Pumped storage power plant belongs:

A.Base load power plant

B.Peak load power plant*

C.Either peak load or base load power plant

D.None of these

Ans:B

21.The coolant used in fast breeder reactor is:

A.Cadmium

B.Water

C.Hard water

D.Sodium*

Ans:D

22.In long and medium Tran's mission line the receiving end voltage is greater than sending end voltage this effect is called:

A.Ferranti effect*

B.Corona effect

C.Strobe-sopic effect

D.Skin effect

Ans:A

23.The type of insulator used submarine cable is:

A.Rubber

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B.PVC

C.Gutta –percha*

D.Impregnated paper

Ans:C

24.SL type cables are used up to:

A.66 KV*

B.33 KV

C.11 KV

D.132 KV

Ans:A

25.The fusing factor of HRC fuse is:

A.1.11

B.1.21

C.1.1*

D.1.25

Ans:C

26.The correct sequence of the conducting material on the basis of conducting is:

A.Silver,copper,gold,aluminium*

B.Silver,gold,copper,aluminium

C.Silver,copper,aluminium,gold

D.Silver,aluminium,copper,gold

Ans:A

27.Among them which material having highest die electric strength:

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A.Porcelain

B.Mica*

C.Ebonite

D.Rubber

Ans:B

28.For a human body the ear to ear resistance is about-----ohm.

A.100 ohm*

B.500 Ohm

C.1000 Ohm

D.800 Ohms

Ans:A

29.The limiting temperature of class a insulator is:

A.120°C

B.105°C*

C.95°C

D.135°C

Ans:B

30.Constantum is the alloy contain:

A.60% copper & 40 % tin

B.40% nickel & 60% zinc

C.40% copper & 60% zinc

D.60% copper & 40%nickel*

Ans:D

31.The insulating material used for the preparation of cable joint is:

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- A.Coal tar compound
- B.Rubber compound
- C.PVC Compound
- D.Bitumenes compound*

Ans:D

32.The ratio of mmf to reluctance is called:

- A.Flux density
- B.Permeability
- C.Flux*
- D.Magnetic leakage

Ans:C

33.The tumberle of measurement of insulation resistance of an installation should be not less than:

- A.500 kilo ohm
- B.2 mega ohm
- C.1 mega ohm*
- D.50/no of outlets

Ans:C

34.The average voltage drop of a soft graphate brush in a DC generator is:

- A.2 volt
- B.1.6 volt*
- C.1.1 volt
- D.2.2 volt

Ans:B

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35.A magnetic material having large area of hysteresis loop,the material having:

- A.Low permeability high retentivity*
- B.High permeability low retentivity
- C.Low permeability low retentivity
- D.High permeability high retentivity

Ans:A

36.Flashing means:

- A.Create residual magnetism in a dc generator*
- B.Making permanent magnet
- C.Initial charging method of lead acid battery
- D.Failure of insulator in transmission line

Ans:A

37.The equation for back emf in a DC generator $E_b =$:

- A. $(\Phi)ZN/600 * P/A$
- B. $V + I_a R_a$
- C. $(\Phi)ZN/60 * P/A *$
- D. $I_a R_a - V$

Ans:C

38.In the case of extra high voltage how much voltage can be permissible in the case of higher voltage regulation:

- A.12%
- B.12.5%
- C.10%*

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D.6%

Ans:C

39.Smoothening is the fire exchanging process by which:

A.Use water for fire exhausting

B.Cooling the fire using fire extinguishers

C.Prevent the supply of fuel to the fire

D.Isolate the fire from the supply of oxygen*

Ans:D

40.The current through the holding coil of a 4 point starter is limited by:

A.Field coil

B.Resistance*

C.Starting resistance

D.Holding coil only

Ans:B

41.The class of measuring instrument that used for industrial and panel board application is:

A.Class 0.1

B.Class 1*

C.Class 0.5

D.Class-2

Ans:B

42.Among them which method of measured is not for low resistance measurement:

A.Kelvins bridge

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B.Pottentiometer method

C.Wheat stone bridge*

D.Ammeter volt meter method

Ans:C

43.The effective value of alternating current is:

A.0.707 I max*

B.0.6061 max

C.1.11 max

D.1.4141 max

Ans:A

44.The IS code of earthing is:

A.IS 3034

B.IS 0334

C.IS 3043*

D.IS 3304

Ans:C

45.The depolarizer used in leclanche cell is:

A.Zn₂O₂

B.ZnO₂

C.MnO₂ *

Ans:D

46.When four no of 2v,4 Ah cells are connected in parallel,what will be it's Ah capacity:

A.4 Ah

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B.8 Ah

C.2 Ah

D.16 Ah*

Ans:D

47.Boost charging method of battery is used to the battery for charging:

A.Over discharge battery*

B.Initial charging of battery

C.For charging a dead cell

D.For normal charging of a battery

Ans:A

48.For magnetic shielding which material is used:

A.Steel

B.Iron*

C.Cobalt

D.Nickel

Ans:B

49.Mica capacitors are best suited for:

A.Low frequency application

B.Low capacitors value required application

C.As a low pass filter

D.High frequency application*

Ans:D

50.For a line hacksaw blade the pitch is:

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A.0.8 mm*

B.1.0 mm

C.1.4 mm

D.1.2 mm

Ans:A

51.In a megger the current coil develop torque under the influence of permanent magnet is:

A.Anti clockwise direction

B.No torque produced

C.Clockwise direction*

D.This clockwise or anti clockwise

Ans:C

52.The apparent power mentioned in the name plate of a CT in volt ampere at specified power factor is:

A.CT rating

B.Burden*

C.Fault KVA

D.KVA rating

Ans:B

53.The primary and secondary voltage of a Delta-star transformer is out of phase with a degree of:

A. 60°

B. 90°

C. 120°

D. 30° *

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Ans:D

54.A 6 pole 5 KW,5 KW,50 Hz 3(Phi)motor having a full load slip of 3%,what will be the speed at full load:

A.1200 rpm

B.1164 rpm*

C.970 rpm

D.1000 rpm

Ans:B

55.While testing a capacitors with the help of ohm meter the needle deflects towards zero and then goes to infinity the capacitor is:

A.Shorted

B.Leaky

C.Open

D.Good*

Ans:D

56.The instrument used for measuring RPM is:

A.Tacho-meter*

B.Tong

C.Wheat stone Bridge

D.Grouler

Ans:A

57.From the following which is not characteristic of a capacitor start capacitor run motor?

A.High starting torque

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B.Good starting PF

C.Noise operation*

D.High running Torque

Ans:C

58.Among them which light source having high lumen efficiency :

A.Hallogen lamp

B.Sodium vapour lamp

C.LED*

D.Mercury vapour lamp

Ans:C

59.BT-136 is a semi conductor device,the device is.

A.Diac

B.Triac*

C.Transistor

D.Zener diode

Ans:B

60.While using GI wire as earth continuity conductor the minimum Gauge is:

A.10SWG*

B.8SWG

C.12SWG

D.14SWG

Ans:A

61.The voltage not exceeding 250 V is called:

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- A.Very low voltage
- B.Medium voltage
- C.Low tension
- D.Low voltage*

Ans:D

62.While erecting a pole to the ground the minimum depth kept bellow the ground level is:

- A. $1/6^{\text{th}}$ part of the pole*
- B. $1/5^{\text{th}}$ part of the pole
- C. $1/4^{\text{th}}$ part of the pole
- D. $1/7^{\text{th}}$ part of the pole

Ans:A

63.In a Gyser which material used in between the outer core and inner tank:

- A.Mica
- B.Glass wool*
- C.Asbestos
- D.Impregnated paper

Ans:B

64.1 KWH is equal to:

- A.868 Calori
- B. 36×10^5 Calori
- C.860 Calori*
- D, 3.6×10^6 Calori

Ans:C

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65.The mass of an electron is approximately:

- A.1/1480 part of proton
- B.1/4180 part of Neutron
- C.01/4108 part of proton
- D.1/1840 part of proton*

Ans:D

66.The value of absolute permittivity is:

- A. 8.854×10^{-12} H/M
- B. 8.854×10^{-12} F/M*

Ans:B

67.The equation for find out the energy stored in a coil is:

- A. $\frac{1}{2} LI^2$

Ans:A

68.The Dummy coil used in a DC generator:

- A.To compensate Demagnetizing effect
- B.To compensate cross magnetizing effect
- C.To reduce commutation
- D.For mechanical balancing*

Ans:D

69.The transformer oil used in transformer provides:

- A.Insulation and lubrication
- B.Cooling and lubrication
- C.Insulation and cooling*
- D.Cooling,Insulation and Lubrication

Ans:C

70.The critical resistance of a DC shunt generator is the resistance of:

- A.Armature
- B.Field
- C.Load
- D.None of these*

Ans:D

71.The polarity of interpole in the case of a DC generator is:

- A.Same as that of main pole ahead*
- B.Same as that of main pole behind
- C.North pole or South pole
- D.None of these

Ans:A

72.Which characteristic of a motor is mainly considered for its industrial application?

- A.Electrical characteristic
- B.Power of motor
- C.Speed torque characteristic*
- D.Over all characteristics

Ans:C

73.Ward-Leonard Method of Speed control is basically a :

- A.Frequency control method
- B.Voltage control method*
- C.Current control method

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D.Flore control method

Ans:B

74.The primary equivalent of Secondary current I_2 of a transformer in the equivalent circuit of transformer is:

Ans: KL_2

75.In a transformer the half load copper loss is 600 W.It's full load copper loss will be:

A.600 Watt

B.1200 Watt

C.2400 Watt*

D.300 Watt

Ans:C

76.Condition for maximum efficiency in a transformer is:

Ans:...

77.When the frequency is doubled,what are the change in eddy current and hysteresis loss:

A.Hysteresis loss doubled ,Eddy current loss doubled

B.Hysteresis loss doubled ,Eddy current loss quadrapped*

C.No change in hysteresis and Eddy current loss

D.Hysteresis remaining same Eddy current loss reduced to half

Ans:B

78.The most economical connection for small and high voltage transmission is:

A.Star-Delta

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B.Delta-Star

C.Star-Star*

D.Delta-Delta

Ans:C

79.A 100 KVA Delta transformer one of the phase of secondary is get out of order.How much load it can carry:

A.100 KVA

B.50 KVA

C.67.3 KVA

D.57.7 KVA*

Ans:D

80.The frequency of Rotor Current at the time of starting of an induction Motor is:

A.Supply frequency *

B.Slip frequency

C.1/Slip frequency

D.None of these

Ans:A

81.'The Indian Struggle'is the Autobiography of:

A.Lala Lajpath Rai

B.Bhagat Singh

C.Subhash Chandra Bose*

D.Nehru

Ans:C

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82.The Prime Minister of India who presided continuously three times as a Chairman of the planning commission of India:

- A.Jawaharlal Nehru*
- B.Rajiv Gandhi
- C.Indira Gandhi
- D.Lal Bahadur Sastri

Ans:A

83.The sudden withdrawal of Non-cooperation movement led to the formation of:

- A.Ghadar party
- B.Swarajist Party*
- C.Hindu Maha Sabha
- D.Muslim League

Ans:B

84.The Partition of India was accepted on the basis of:

- A.Mount batten plan*
- B.Cripps Mission
- C.Cabinet Mission
- D.Independence Act of India

Ans:A

85.In which of these cities did Jallian Wallabagh Massacre,one of the most tragic event in the history of our freedom struggle took place?

- A.Lucknow
- B.Kanpur

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C.Amritsar*

D.Lahore

Ans:C

86.Kerala Sastra puraskar of 2014 was awarded to:

A.G.Madhavan Nair

B.K.P.Gopinadhan*

C.K.Radhakrishnan

D.J.C.Bose

Ans:B

87.Who was the freedom fighter other than Gandhiji,who died in 1948?

A.Tagore

B.Sarojini Naidu

C.M.A.Finnah*

D.Sardar Patel

Ans:C

88.Red panda is the state animal of which Indian State:

A.Sikkim*

B.Meghalaya

C.Arunachal Pradesh

D.Tripura

Ans:A

89.Who chairs the joint sitting of the parliament?

A.President of India

B.Prime Minister

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C.Supreme Court Chief Justice

D.Lok Sabha Speaker*

Ans:D

90.The term Handicap is related to:

A.Hockey

B.Football

C.Polo*

D.Cricket

Ans:C

91.Sadhujana Paripalana Sangam later popular as:

A.Pulaya Mahajana Sabha*

B.Harijana Sabha

C.Pulaya Sangam

D.Harijan Yojana Sabha

Ans:A

92.Integration of Indian states was a great achievement of:

A.Subhs Chandra Bose

B.Nehru

C.Surendranath Banerjee

D.Sardar Patel*

Ans:D

93.The author of 'My Music,My Life':

A.Yesudas

B.Pandit Ravi Sankar*

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C.Subhalakshmi

D.K.S.Chitra

Ans:B

94. Who is the chair person of National Women's Commission?

A.Mamta Sharma

B.Jayanthi Patnaik

C.Lalitha kumaramangalam*

D.Sushma Singh

Ans:C

95. Which state known as 'Land of Bio diversity'?

A.Kerala*

B.Gujarat

C.Tamilnadu

D.Punjab

Ans:A

96. Who constituted Theertha Pada Matham?

A.Dr.Palpu

B.Kumaranasan

C.Chattampi Swami*

D.Vaghbhatananda

Ans:C

97. The major type of soil found in Deccan plateau:

A.Alluvial soil

B.Black soil*

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C.Red soil

D.Laterite soil

Ans:B

98.When and where was Jana-Gana Mana first sung?

A.Calcutta session of INC in 1911*

B.Lahore session of INC in 1929

C.Lucknow session of INC in 1916

D.Nagpur session of INC in 1922

Ans:A

99.The drama 'Balakalesam' written by:

A.Ayyankali

B.V.T.Bhattathiripad

C.Pandit Karuppan*

D.Narayanaguru

Ans:C

100.Chathrapathi Shivaj International Airport is located in:

A.Pune

B.Mumbai*

C.Chennai

D.Madurai

Ans:B

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