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ELECTRICIAN(WATER TRANSPORT)

EXAM DATE:25-02-2016

1.Which of the following frequencies has the longest time period?

A.1Hz*

B.1 kHz

C.10 Hz

D.10 kHz

Ans:A

2.In a generator maximum value of e.m.f.is generated within the coil axis is at:

A.45°with field axis

B.90°with field axis

C.180°with field axis

D.Zero degree with field axis*

Ans:D

3.A choke coil of an operating fluorescent lamp is short-circuited.What is the consequence?

A.The lamp becomes brighter

B.The lamp becomes less bright

C.The current becomes so large that it damages the tube*

D.The short circuit is noticed only after the lamp is switched 'ON'again

Ans:C

4.A contactor coil is designed for 220V DC.What happens if it is connected to 220 V AC?

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- A.Too large a current is drawn by the coil and it is destroyed
- B.Too small a current is drawn by the coil and the operation the contactor is no longer certain*
- C.It draws the same current
- D.It works better

Ans:B

5.A capacitor is connected across a 200 V AC line.Its minimum voltage rating should be:

- A.100 volt
- B.200 volt
- C.300 volt*
- D.400 volt

Ans:C

6.The power factor of 3-phase load is less than 0.5.While measuring power by two watt meters:

- A.One of the wattmeters gives zero reading
- B.One of the wattmeters gives negative reading*
- C.Both wattmeters give positive reading
- D.One of the wattmeters kicks backward

Ans:B

7.Voltage required to operate the Neon sign tubes depends upon:

- A.Diameter of the tube
- B.Gases in the tube
- C.Length of the tube*
- D.Thickness of the tube

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Ans:C

8.Soldering of a Britania Joint is a necessity to avoid loosening of the joint due to:

- A.Vibration and change in atmospheric temperature
- B.Corrosion due to galvanic action
- C.Corrosion due to atmospheric changes
- D.Overheating*

Ans:D

9.The testing of wiring installation for insulation resistance to ensure that:

- A.All conductors have high ohmic values in the circuit
- B.All outlet points are earthed properly to ground
- C.Leakage current beyond the stipulated value does not flow to earth*
- D.Live and neutral conductors in the installation are continuous

Ans:C

10.Braking torque in energy meter is produced to:

- A.Brake the instrument
- B.Bring energy meter to stand still*
- C.Safeguard it against creep
- D.Maintain steady speed and equal to driving torque

Ans:B

11.The scale of dynamometer type wattmeter is of:

- A.Uniform scale*
- B.Logarithmic scale

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C.Non-linear scale

D.Square law scale

Ans:A

12.The standard secondary voltage for PT used in power system in:

A.1 V

B.5 V

C.50V

D.110 V*

Ans:D

13.Which instrument always indicates true r.m.s.value irrespective of the waveform?

A.Moving iron meter*

B.Digital voltmeter

C.Thermocouple meter

D.None of the above

Ans:A

14.A voltmeter gives inaccurate reading to measure the drop across a low resistance because:

A.The higher scale has been selected*

B.The current drawn by the meter is too low

C.The sensitivity of the meter is too low

D.None of the above

Ans:A

15.The phase difference between the currents in the two pressure coils in PF meter is:

- A.Approximately 0°
- B.Approximately 90°
- C.Exactly 0°
- D.Exactly 90° *

Ans:D

16.When a rewound armature is rolled on the surface of a leveled surface plate the armature stops at the same position of its periphery for each rolling,the portion of armature touching the surface plate is regarded to have:

- A.Higher weight than the diametrically opposite portion*
- B.Lesser weight than the diametrically opposite portion
- C.Equal weight to that of opposite portion
- D.Higher weight than the portion 90° to it on any one side

Ans:A

17.Which one of the following characteristic is NOT applicable to synchronous motors?

- A.Runs at constant speed at all loads
- B.Suitable to supply only mechanical load*
- C.Can also be used for PF improvement
- D.Not self starting

Ans:B

18.Which method is generally adopted to measure the power in a three phase imbalanced load system?

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- A.One wattmeter method
- B.Two wattmeter method*
- C.Three voltmeter method
- D.Three wattmeter method

Ans:B

19.The colour of light depends upon:

- A.Wave length
- B.Frequency
- C.Speed of light
- D.Frequency and wave length*

Ans:D

20.Which of the following lamp is cold cathode lamp?

- A.Neon lamp*
- B.Sodium vapour lamp
- C.Mercury vapour lamp
- D.Fluorescent lamp

Ans:A

21.You have to repair storage type water heater which has steam in the hot water.The possible remedy for this trouble can be found by checking:

- A.All points for possible leakages
- B.The thermostat setting*
- C.All wiring for loose connections
- D.Element for its condition

Ans:B

22.The reading on a 3 digit millivoltmeter started flashing continuously when connected across a resistor to measure the m V across it.The reason for flashing of display on millivoltmeter is that:

- A.The battery in the instrument is weak*
- B.There is no battery in the instrument
- C.The measured value is over range
- D.The display is damaged

Ans:A

23.Which one of the following measurement CANNOT be done with multimeter?

- A.Current drawn by an electronic circuit
- B.Supply voltage to DC motor
- C.Continuity test of motor winding
- D.Insulation resistance of motor*

Ans:D

24.Why a higher capacity squirrel cage induction motor is not recommended for operating under low load condition?

- A.Voltage drop in line will be too much
- B.Power factor will be less*
- C.Higher capacity motors does not run at constant speed
- D.Torque is too much hence it may cause damage

Ans:B

25.Shunts and multipliers used in MC instruments are made up of Mangnin.

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The reason for using the above metal is that, it has:

- A.Positive temperature Co-efficient of resistance
- B.Negative temperature Co-efficient of resistance
- C.Perfectly constant temperature co-efficient of resistance
- D.Very low(Practically const-ant)temperature co-efficient of resistance*

Ans:D

26.In order to operate a fluorescent tubeset on DC supply,which of the following additional auxillary device is to be connected?

- A.Inductance
- B.Capacitance
- C.Resistance*
- D.No extra device is needed

Ans:C

27.The power input increases by three times when the connection of three phase loads changes from star to delta at the same line voltage.What is the reason for this?

- A.The voltage across one phase of the load is three times higher in delta connection than in star connection
- B.The power factor increases by three times in delta connection when compared to star connection
- C.The line current is three times higher in delta connection than in star connection*
- D.The voltage in each phase increases by two times and the current by 1.732 times

Ans:C

28.In a parallel resonant circuit the capacitor current is:

- A.More than line current*
- B.Less than line current

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C.Equal to line current

D.None of the above

Ans:A

29.According to National electric code what is the specified minimum distance between the washing unit and the switch board:

A.0.6 metre

B.2.5 metre

C.1.3 metre*

D.3.4 metre

Ans:C

30.A series RLC circuit takes leading power factor current at:

A.Resonant frequency

B.More than resonant frequency

C.Less than resonant frequency*

D.None of the above

Ans:C

31.In the output voltage of a DC generator the ripple effects can be reduced by increasing the:

A.Field current

B.Number of armature coil*

C.Number of turns in the field winding

D.Size of the conductor of the armature coil

Ans:B

32.While installing power sub-circuits in domestic installations it should be restricted to:

- A.800 watts with in 10 light and fan points
- B.800 watts within 2 outlets
- C.3000 watts within 10 light and fan points
- D.3000 watts within 2 outlets*

Ans:D

33.What type of compounding would be desirable in the DC generator feeding a long transmission line?

- A.Over compounding*
- B.Under compounding
- C.Flat compounding
- D.Any one of the above

Ans:A

34.The most economic method of electrical braking is:

- A.Plugging
- B.Dynamic braking with self excitation
- C.Regenerative braking*
- D.Dynamic braking with separate excitation

Ans:C

35.When a DQ series motor is connected to an AC supply,then:

- A.It will stop
- B.It may burnt out
- C.It will run without any trouble

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D.It will run with less efficiency and high spark at commutator*

Ans:D

36.Dummy coils in a DC generator is provided:

A.To ampily voltage

B.To reduce eddy current losses

C.To enhance flux density

D.To provide mechanical balance to the rotor*

Ans:D

37.When the number of poles and the number of armature conductors are fixed,then which winding of a DC generator will give the higher e.m.f?

A.Wave winding*

B.Lap winding

C.Same e.m.f.in lap wave winding

D.Depends on other features of design

Ans:A

38.Earth tester is used for measuring earth resistance in which generated DC is converted into AC by current reverser.The reason for using AC supply for resistance measurement is:

A.AC resistance is more than DC resistance

B.To reduce error due to electrolytic e.m.f.*

C.AC wave form is pulsating in nature

D.AC contains sine wave form

Ans:B

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39.The basic function of voltage stabilizer is to provide:

- A.Constant current supply to load
- B.Constant power supply to load
- C.Constant voltage supply to load*
- D.Uninterrupted supply to load

Ans:C

40.A food mixture rated for 240V AC fails to start when it is switched on.Which one of the following is NOT a cause for the above?

- A.Jammed rotor
- B.Supply voltage is only 210V*
- C.OL relay is not re-set
- D.Open in armature winding

Ans:B

41.In a transformer the leakage flux may be minimized by:

- A.Minimizing the number of turns of both the winding
- B.Sectionalizing and inter-leaving the primary and secondary winding*
- C.Keeping the magnetizing current to the minimum
- D.Reducing the reluctance of the iron core to the minimum

Ans:B

42.Which one of the following connections is preferred for three-to-two phase conversion?

- A.Scott*
- B.Double scott
- C.Star/star

D.Star/Double-delta

Ans:A

43.The phase relationship between primary and secondary terminal voltage of a transformer is:

A.Primary voltage is leading the secondary voltage by 90°

B.Secondary voltage is leading the primary voltage by 90°

C. 180° out of phase*

D.In the same phase

Ans:C

44.The no load primary current I_0 in an ideal transformer is:

A.In phase with V_1

B.Leads V_1 by 90°

C.Lags behind V_1 by 90°

D.Lags V_1 by an angle lying between 0° and 90° *

Ans:D

45.An optocoupler is a single package of:

A.LED and a signal diode

B.LED and a photodiode*

C.Two photodiodes

D.Two LEDs

Ans:B

46.One of the diode of a bridge rectifier connected to 100 V 50Hz AC input is found to be damaged.The DC output of the circuit is 90V.The minimum value of PIV of the diode required for replacement is:

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A.45 V

B.50 V

C.100 V*

D.150 V

Ans:C

47.You are working with a fully automatic star delta starter.You notice that when start switch is pressed the motor starts in star but does not change to delta.The trouble will be in:

A.Delta contractor

B.Timer and its circuit*

C.Star contractor

D.Line contractor

Ans:B

48.Watt-hour meter is classified as a:

A.Deflecting instrument

B.Indicating instrument

C.Recording instrument

D.Integrating instrument*

Ans:D

49.Two pin sockets should not be used in domestic wiring unless the appliance to be connected is:

A.Double earth

B.Double insulated

C.Controlled by ELCB*

D.Controlled by MCB

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Ans:C

50.As load on induction motor increases its power factor:

- A.Remain constant
- B.Goes on decreasing
- C.Goes on increasing over after full load
- D.Goes on increasing up to full load and then it falls again*

Ans:D

51.During no load test of a 3 phase induction motor,the motor draws power:

- A.For core loss and copper loss
- B.For copper loss and windage-friction loss
- C.For core loss and windage-friction loss*
- D.Only for every small copper loss

Ans:C

52.The recent method of smooth speed control of a three-phase induction motor over a wide range is:

- A.Frequency control method*
- B.Rotor resistance control method
- C.Voltage control method
- D.None of the above methods

Ans:A

53.Rotor bars of squirrel cage rotor are sometimes skewed:

- A.To prevent rotor from aligning and locking up with stator*
- B.To give more uniform torque

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C.To reduce humming noise

D.Due to all above reasons

Ans:A

54.For 66 kV lines the number of insulator discs used is:

A.3

B.6*

C.10

D.12

Ans:B

55.AC resistance of a line conductor is more than its DC resistance because of:

A.Skin effect

B.Proximity effect

C.Skin effect and proximity effect*

D.None of these

Ans:C

56.What type of insulator will be used if the direction of the transmission line is changed?

A.Strain type

B.Shackle type*

C.Pin type

D.Suspension type

Ans:B

57.The back emf set up in the armature of a synchronous motor depends on:

- A.Rotor speed only
- B.Rotor excitation only*
- C.Rotor excitation and rotor speed
- D.Coupling angle,rotor speed and excitation

Ans:B

58.The current drawn by an over excited synchronous motor will be:

- A.Depending on the nature of load
- B.At lagging power factor
- C.At leading power factor*
- D.At unity power factor

Ans:C

59.Two alternators are sharing an inductive load equally.What will be happened if the excitation of one alternator is increased?

- A.Another alternator will deliver more current
- B.Another alternator will deliver less current*
- C.Both will continue to share load equally
- D.Both will deliver more current

Ans:B

60.A ceiling fan rotates slowly in either direction.The probable fault is:

- A.An open in centrifugal switch
- B.An open in capacitor*
- C.Short in the capacitor

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D.Blow fuse

Ans:B

61.In repulsion motor, maximum torque is developed when:

A.Brush axis is at 180° electrical to the field axis

B.Brush axis is at 90° electrical to the field axis

C.Brush axis is at 45° electrical to the field axis*

D.Brush axis coincides with the field axis

Ans:C

62.Starting winding of a single phase motor of a refrigerator is disconnected from the circuit by means of a:

A.Centrifugal switch

B.Magnetic relay*

C.Thermal relay

D.None of the above

Ans:B

63.How the speed control of universal motor used for sewing machine is done?

A.Introducing friction mechanism

B.Tapping the field at various point*

C.Centrifugal mechanism

D.Introducing a variable resistance in series with the motor

Ans:B

64.Buchholz relay is operated by:

A.Gas pressure*

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B.Eddy current

C.Electrostatic induction

D.Electromagnetic induction

Ans:A

65.The size of earth wire is determined by:

A.The atmospheric condition

B.The voltage of the service wires

C.The current capacity of the service wires

D.None of these*

Ans:D

66.Earthing in consumer premises is necessary to give protection against:

A.Overloading

B.Danger of electric shock*

C.Voltage fluctuation

D.High temperature of the conductors

Ans:B

67.A single phase protection switch is used to protect:

A.The distribution transformer

B.The motor in case of fuse failure

C.The motor from the damage due to single phasing*

D.From the maximum starting current of motor

Ans:C

68.The best location of the power factor improving device to be installed the transmission line is at:

- A.The receiving end*
- B.The sending end
- C.Middle of the line
- D.Any place

Ans:A

69.-----motor has series characteristics

- A.Capacitor start motor
- B.Shaded pole motor
- C.Repulsion motor*
- D.None of the above

Ans:C

70.How the light output is produced in electric discharge lamp?

- A.By heating effect of current
- B.By magnetic effect of current
- C.By ionization in a gas or vapour*
- D.By cathode ray emission

Ans:C

71.Arc heating occurs when the air between electrodes of opposite polarity becomes:

- A.Moistened
- B.Dry
- C.Ionized*

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D.None of the above

Ans:C

72.The meter used to measure the temperature of a furnace is:

A.Hydrometer

B.Pyrometer*

C.Hygrometer

D.Tachometer

Ans:B

73.Which part is provided in a battery charger to prevent the flow of excessive current into the battery?

A.Coarse selector

B.Tune selector switch

C.Limiting resistance*

D.Transformer

Ans:C

74.What will happen to the filter circuit in battery charger if the output filter capacitor is opened?

A.Will not function*

B.Will make humming noise

C.More current will flow

D.No output voltage

Ans:A

75.What are the two relative quantities to be plotted for external characteristics curve for DC shunt generator?

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- A.Field current Vs No load voltage
- B.Armature current Vs Induced e.m.f
- C.Load current Vs Terminal voltage*
- D.Load current Vs Induced e.m.f

Ans:C

76.What will happen to a self excited DC generator,if the generator runs in reverse direction?

- A.The induced e.m.f.is increased
- B.There is no change in the induced e.m.f
- C.Spark will be produced in the commutator
- D.Residual magnetism in the pole will be destroyed*

Ans:D

77.Which is the application of delayed response type diazed fuse?

- A.Motor circuits*
- B.Heating circuits
- C.Lighting circuits
- D.Electronic circuits

Ans:A

78.The force between two long parallel conductors is inversely proportional to:

- A.Current in one conductor
- B.Distance between the conductors*
- C.Radius of conductors
- D.Product of current in two conductors

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Ans:B

79.Which of the following circuit elements will oppose the change in the circuit current?

- A.Inductance*
- B.Resistance
- C.Capacitance
- D.All of the above

Ans:A

80.The colour of light of mercury vapour lamp is:

- A.Greenish blue
- B.Yellow
- C.Pink
- D.White*

Ans:D

81.South Africa was captured by Britain after the -----war.

- A.Opium war
- B.Boer war*
- C.Boxer Rebellion
- D.Carnatic war

Ans:B

82.The King of England during the American war of independence:

- A.George IIIrd*
- B.George 1st
- C.Henry VIII

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D.Charles 1st

Ans:A

83.The classical dance form popular in the North-East parts of India:

A.Bihu

B.Chiraw

C.Manipuri

D.Kathak*

Ans:D

84.The author of the famous book”Fidelio”:

A.T.S.Eliot

B.L.Beethoven*

C.Lord Byron

D.George Bernard Shaw

Ans:B

85.The Headquarters of Economic and Social Commission for Asia and the Pacific(ESCAP)is at:

A.Jakarta

B.Manila

C.Kathmandu

D.Bangkok*

Ans:D

86.Language in which maximum number of Newspapers are published?

A.Marathi

B.English

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C.Hindi*

D.Bengali

Ans:C

87.French official book:

A.Yellow book*

B.White book

C.Green book

D.Blue book

Ans:A

88.The author of “Truth,Love and a Little Malice”:

A.Boris Pasternak

B.U.Thant

C.Amita Malik

D. Khushwant Singh*

Ans:D

89.Who was the founder of Scientific Astronomy?

A.Hippalus*

B.Hoffmann

C.Hippocrates

D.None of these

Ans:A

90.Who propounded the signs of the Zodiac?

A.Indians*

B.Egyptians

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C.Babylonians

D.None of these

Ans:A

91.A social Reformer of Kerala who started Atmavidhya Sangham was:

A.Vaikunda Swamikal

B.Brahmananda Sivayogi

C.Thycaud AyyaVaikunda

D.Vagbhadanandan*

Ans:D

92."The Career and legend of Vasco da Gama" is a book written by:

A.Sanjay Subramaniam*

B.Arun Shourie

C.Kushwant Singh

D.None of these

Ans:A

93.Who among the foreign travellers made earliest reference regarding Kerala?

A.Marco Polo

B.Megasthenese

C.Ptolemy

D.Pliny*

Ans:D

94.The Newspaper "Sujananadini" was started by:

A.C.V.Kunhiraman

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B.C.Krishnan

C.Kesavan Asan*

D.Sahodaran Ayyapan

Ans:C

95.Under 42nd amendment to our constitution the fundamental duties were enumerated.This concept of fundamental duties was borrowed from the constitution of:

A.USSR*

B.Ireland

C.China

D.UK

Ans:A

96.The Rajya Sabha is a -----body.

A.A part of the Lok Sabha

B.A temporary body

C.A permanent body*

D.None of these

Ans:C

97.Article 368 deals with:

A.Special Provision for Jammu and Kashmir

B.President rule in a state

C.Pertains to the abolition of untouch ability

D.Amendment of the Constitution*

Ans:D

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98."Neel Darpan"is a play which portrays the oppression meted out by the indigo planters over the peasants.This famous Play was written by whom?

A.Raja Ram Mohan Roy

B.Dinbandhu Mitra*

C.Jyothirao Phule

D.R.N.Tagore

Ans:B

99.Which of the following is one of the Harappan sites related to the maritime activities of the Harappan people?

A.Lothal*

B.Kalibangan

C.Rangpur

D.Mohanjodaro

Ans:A

100.The cold current which meets with the warm gulf stream near Newfoundland?

A.Humboldt

B.Canaries

C.Benguala

D.Labrador*

Ans:D