LINEMAN(N.C.A),P.W.D.ELECTRICAL WING ONLINE EXAM  
EXAM DATE:16-01-2017

**1.Kaziranga,the famous sanctuary of Assam is famous for:**

A.Tigers

B.Rhinos

C.Lions

D.Elephants

Ans:B

**2.In which of the following states is Tungabhadra project of irrigation?**

A.Andhra Pradesh

B.Bihar

C.Tamil Nadu

D.Maharashtra

Ans:A

**3.According to census 2011 the sex ratio in India is:**

A.980

B.960

C.940

D.930

Ans:C

**4.Which of the following project started to ensure integrated development of** **children upto 5 years?**

A.SSA

B.RMSA

C.NSPS

D.ICDS

Ans:D

**5.The nationalized leader who was killed in a police lathicharge in 1928 was:**

A.Madan Mohan Malaviya

B.Lala Lajpat Rai

C.Swami Sahajanand

D.Suryasen

Ans:B

**6.The Resolution of Non-cooperation Movement was passed in which special** **session of Indian National Congress**

A.Calcutta

B.Kanpur

C.Nagpur

D.Bombay

Ans:A

**7.The Indian National Congress celebrated the Independence Day for the first** **time on:**

A.August 15,1947

B.January 26,1950

C.January 1,1937

D.January 26,1930

Ans:D

**8.Separate electorate for Muslims were first introduced through the following** **reforms**

A.Montegue-Chelmsford reforms

B.Government India Act of 1935

C.Minto-Morley Reforms

D.Council Act of 1892

Ans:C

**9.In which part of the Kerala Oranges are grown?**

A.Nelliyampathy

B.Munnar

C.Kasaragod

D.Muthanga

Ans:A

**10.Kabani one of the east flowing rivers of Kerala flows into:**

A.Tamil Nadu

B.Karnataka

C.Andhra Pradesh

D.Maharashtra

Ans:B

**11.Vagbhatananda started the Journal for Propagation of Nationalist ideas:**

A.Prachina Malayalam

B.Akilathirattu

C.Atmavidya kahalam

D.Deepika

Ans:C

**12.Who formed Nair Samudhaya Bhruthya Jana Sangam in 1914?**

A.K.Kelappan

B.K.P.Kesava Menon

C.K.Ramakrishna Pillai

D.Mannath Padmanabhan

Ans:D

**13.Who put forward the famous teachings ‘progress through the** **education,strengthen through Organisation’?**

A.Chattampi Swamikal

B.Sri Narayana Guru

C.Dr.Palpu

D.Ayyankali

Ans:B

**14.Who is the author of the work ‘Jathikkummi’?**

A.K.P.Karuppan

B.Sahodaran Ayyappan

C.Vaikunda Swamikal

D.Chattampi Swamikal

Ans:A

**15.Who was the founder of ‘Yogakshema Sabha’?**

A.E.M.S.Namboodiripad

B.V.T.Bhattathiripad

C.K.P.Kesava Menon

D.K.P.Padmanabha Menon

Ans:B

**16.Who is the interim President of Brazil declared ‘South America’s first Olympic** **Games Open at Rio 2016?**

A.Dilma Rousseff

B.Carlos Nuzman

C.Michel Temer

D.Gisele Bundehen

Ans:C

**17.Who is the one of the members of NITI Aayog?**

A.Arundhathi Bhattacharya

B.Ashok Kemka

C.G.R.Aloria

D.Ramesh Chand

Ans:D

**18.Who is the present Chairman of Kerala Sahitya Akademi?**

A.KPAC Lalitha

B.Beena Paul

C.Lenin Rajendran

D.Vaishaken

Ans:D

**19.Who won the men’s singles title in the 2016 Wimbledon Tennis?**

A.Andy Murray

B.Novak Djokovic

C.Rafel Nadal

D.Wavarinka

Ans:A

**20.Which among the following was not the important works of Mahasweta Devi?**

A.Rudali

B.Jansir Rani

C.India Another Millenium

D.Aranyer Adhikar

Ans:C

**21.Which type of motor is generally used in a portable drilling machine?**

A.Repulsion motor

B.Universal motor

C.Capacitor run motor

D.Shaded pole motor

Ans:B

**22.Lead is prepared from the ore of :**

A.Bauxite

B.Blast

C.Hematite

D.Galena

Ans:D

**23.Which of the material is used to fix the screw on concrete wall and ceiling?**

A.Link clips

B.Bushings

C.Rowl plug

D.Saddles

Ans:C

**24.Insulation resistance is measured in:**A.Kilo ohms

B.Mega ohms

C.Megawatts

D.Kilowatts

Ans:B

**25.In an energy meter the holes on the aluminium disc helps to:**

A.Reduce the friction

B.Reduce the weight of the disc

C.Prevent creeping

D.Reduce the resistance

Ans:C

**26.Watt hour meter is classified as a:**

A.Integrating Instrument

B.Deflecting Instrument

C.Recording Instrument

D.Indicating Instrument

Ans:A

**27.Efficiency of a Secondary cell is:**

A.Impedance hour efficiency

B.Ampere hour efficiency

C.Resistance hour efficiency

D.Volt hour efficiency

Ans:B

**28.Which class of insulator is Mica?**

A.Class F

B.Class A

C.Class B

D.Class C

Ans:D

**29.The slip rings are made of:**

A.Aluminium

B.Silver

C.Copper

D.Cast iron

Ans:C

**30.The operating temperature of a gas filled lamp is about--------**

A.2500 Degree C

B.3000 Degree C

C.2000 Degree C

D.2700 Degree C

Ans:D

**31.If the speed of DC shunt motor increases the back emf:**

A.Decreases

B.Constant

C.Decreases and then increases

D.Increases

Ans:D

**32.To check the Internal and External radius of work pieces which tool is used?**

A.Radius gauges

B.Centre punch

C.Scriber

D.Callipers

Ans:A

**33.Universal Motor requires:**

A.AC only

B.DC only

C.AC and DC

D.DC and shunt type

Ans:C

**34.All the sides of parallelogram are equal is called---------**

A.Trapezium

B.Rhombus

C.Polygon

D.Rectangle

Ans:B

**35.Gun metal is an alloy of-------and --------**

A.Copper,Aluminium,Zinc

B.Copper,Tin,Zinc

C.Iron,Copper,Tin

D.Iron,Tin,Zinc

Ans:B

**36.1 Kg weight=--------**

A.9 Newtons

B.10.8 Newtons

C.9.8 Newtons

D.8.5 Newtons

Ans:C

**37.Torque’=’**

A.Force’xx’Acceleration

B.Force ‘xx’Distance

C.Force’xx’Radius

D.Force’xx’Speed

Ans:C

**38.Aluminium ore is------**

A.Bauxite

B.Antimony

C.Graphite

D.Galena

Ans:A

**39.Freezing point of mercury is----**

A.35 Degree C

B.36 Degree C

C.38 Degree C

D.39 Degree C

Ans:D

**40.The ability of material to deform without breaking is called:**

A.Plasticity

B.Elasticity

C.Ductility

D.Malleability

Ans:A

**41.Whenever heat is developed in a conductor it is governed by the:**

A.Lenz’s Law

B.Ampere’s Law

C.Joule’s Law

D.Newton’s Law

Ans:C

**42.Squirrel cage induction motor is a:**

A.High starting torque motor

B.Low starting torque motor

C.Both(1)and (2)

D.None of the above

Ans:B

**43.Which are fundamental units?**

A.CGS,FPS and MKS

B.MKS,MKSA and CGS

C.CGS,FPS and SI

D.FPS and MKS

Ans:A

**44.The flux density is the flux divided by:**

A.Conductivity

B.Permeability

C.Area of cross section

D.Area of the current carrying conductor

Ans:C

**45.A pure resistive circuit in AC follows the:**

A.Ohm’s Law

B.Lenz’s Law

C.Faraday’s Law of electrolysis

D.Kirchhoff’s Law

Ans:A

**46.Which of the following material has a negative temperature co-efficient of** **resistance?**

A.Brass

B.Copper

C.Carbon

D.Aluminium

Ans:C

**47.100 W and 40 W lamps are of the same voltage rating the resistance of 40 W** **lamp is-----**

A.Higher

B.Lower

C.The same

D.Lower with AC higher with DC

Ans:A

**48.Metric HP=**

A.746 watts

B.746.5 watts

C.735.5 watts

D.735 watts

Ans:C

**49.Which lamp will take more current?**

A.40 watts 200 V

B.100 watts 24 V

C.1000 watts 230 V

D.100 watts 230 V

Ans:C

**50.Star/Delta starter used in a:**

A.DC Series

B.DC Shunt

C.AC single phase

D.Three phase Induction Motor

Ans:D

**51.It is difficult to magnetise steel because of its:**

A.Low permeability

B.High permeability

C.High density

D.High retentivity

Ans:A

**52.One Farad is:**A.One Coulomb per volt

B.One volt per Coulomb

C.Joule per volt

D.Coulomb Joules

Ans:A

**53.Which of the following acts as depolarizer in a Lechlanche cell?**

A.Zinc Chloride

B.Carbon Powder

C.Manganese dioxide

D.Ammonium Chloride

Ans:C

**54.What is the method of heat transfer accomplished in a hot water boiler?**

A.Convection

B.Conduction

C.Radiation

D.None of the above

Ans:A  
**55.Which motor is suitable for rolling mills?**

A.DC shunt motor

B.DC series motor

C.DC cumulative motor

D.DC differential motor

Ans:C

**56.Composition of fuse wire:**

A.Lead 40 tin 60

B.Lead 80 tin 20

C.Lead 50 tin 50

D.Lead 60 tin 40

Ans:D

**57.Rated capacities of IC TP 300A switch:**

A.500 V

B.1000 V

C.230 V

D.250 V

Ans:A

**58.XC=**

A.R-XL

B.2pi FI

C.2 pi FC

D.(1)/(2piFC)

Ans:D

**59.The power factor of a purely resistive circuit is:**

A.Zero

B.Unity

C.Leading

D.Lagging

Ans:B

**60.In star connection line current=**

A.Phase current

B.Square root of 3 phase current

C.Square root of 2 phase current

D.None of the above

Ans:A

**61.Power transformers are designed to have maximum efficiency at:**

A.Half load

B.No load

C.Little more than full load

D.Near full load

Ans:D

**62.1 litre of water--------**

A.980 gram

B.1000 gram

C.930 gram

D.910 gram

Ans:B

**63.Melting point of copper is------**

A.1230 Degree C

B.1085 Degree C

C.1088 Degree C

D.1083 Degee C

Ans:D

**64.In H.S.S. 18:4:1 means-------**

A.Tungsten:Vanadium:Chromium

B.Tungsten:Chromium:Vanadium

C.Vanadium:Tungsten:Chromium

D.Chromium:Vanadium:Tungsten

Ans:B

**65.Which colour wire is recommended for earth connection as per ISI Code?**

A.Red

B.Black

C.Blue

D.Green

Ans:D

**66.What is the value of cos 0 Degree?**

A.1

B.0

C.Square root of 2

D.Square root of 3

Ans:A

**67.On which factors the frequency depends?**

A.Directly proportional to speed and no.of poles

B.Inversely proportional to speed and no.of poles

C.Directly proportional to back emf

D.Directly proportional to applied voltage and back emf

Ans:A

**68.What is the complete formula for frequency?**

A.F=(PxxN)/(60)

B.F=(Ns-N)/(60)

C.F=(PxxE)/(120)

D.F=(PxxNS)/(120)

Ans:D

**69.Where the Damper winding is placed in synchronous motor?**

A.Shaft

B.Poles

C.Poleshoes

D.All of the above

Ans:C

**70.Capacity of a capacitor filled in table fan or ceiling fan:**

A.1 to 1.5 meu f

B.3 to 3.5 meu f

C.2.5 to 3 meu f

D.2 to 2.5 meu f

Ans:D

**71.How the current coils and pressure coils are connected in megger?**

A.At 90 Degree to each other

B.At 60 Degree to each other

C.At 45 Degree to each other

D.At 35 Degree to each other

Ans:A

**72.Supertension cables from:**

A.33000 Volt to 66000 Volt

B.1000 Volt 11000 Volt

C.11000 Volt to 22000 Volt

D.22000 Volt to 33000 Volt

Ans:D

**73.The distance between two adjacent line poles is called:**

A.Sag

B.Span

C.HSL

D.Guarding

Ans:B

**74.The distance that must be provided between line conductors for 440 V:**

A.50 cm-60 cm

B.45 cm-60 cm

C.45 cm-50 cm

D.30 cm-45 cm

Ans:D

**75.Rotary converter runs at:**

A.Below synchronous speed

B.Synchronous speed

C.Above synchronous speed

D.All of the above

Ans:B

**76.A series RL circuit has a resistance of 30 Ohm and inductive resistance of 40** **Ohm.The impedance is-------**

A.70 Ohm

B.50 Ohm

C.10 Ohm

D.35 Ohm

Ans:B

**77.The magnetic field produced in the stator of a three phase induction motor** **rotates at------**

A.Rotating speed

B.Synchronous speed

C.Asynchronous speed

D.Slip speed

Ans:B

**78.The meter used to measure the temperature of furnace is:**

A.Hydrometer

B.Hygrometer

C.Pyrometer

D.Tachometer

Ans:C

**79.The conduction in a JEFT is always by the:**

A.Minority carriers

B.Majority carriers

C.Holes

D.Electrons

Ans:B

**80.FET is:**

A.Unipolar device

B.Bipolar device

C.Half Power device

D.All of the above

Ans:A

**81.The Binary number system has a radix of:**

A.10

B.2

C.16

D.8

Ans:B

**82.Class Y insulation temperature assigned----------Range**

A.105 Degree C

B.120 Degree C

C.90 Degree C

D.130 Degree C

Ans:C

**83.In an inductive load power factor:**

A.Zero

B.Leading

C.Lagging

D.Both

Ans:C

**84.Form factor of an Electric Current:**

A.2

B.1.11

C.1.44

D.1.732

Ans:B

**85.Intermediate switches are used to control:**

A.One lamp two places

B.One lamp one place

C.2 lamp one place

D.More lamp from different places

Ans:D

**86.What is used for making guide holes drilling in metals?**

A.Centre punch

B.Ratchet Brace

C.Auger-bit

D.Hand Drill

Ans:A

**87.Upto how much voltage is medium?**

A.Upto 250 V

B.Upto 560 V

C.Upto 1100 V

D.Upto 440 V

Ans:B

**88.Nichrome is widely used for:**

A.Transformer winding

B.Circuit connections

C.Heater coils

D.Lamp filaments

Ans:C

**89.The resistance of a conductor on increasing the temperature:**

A.Increases

B.Decreases

C.Constant

D.Varies

Ans:A

**90.The unit for flux density is:**A.Henry/m^2

B.Newton/m^2

C.Webers/m^2

D.None of the above

Ans:C

**91.The magnetic potential in a magnetic circuit can be measured in terms of:**A.Farads

B.Coulombs

C.EMF

D.MMF

Ans:D

**92.Which one of the following capacitors is only suitable for direct voltage?**

A.Aluminium full capacitor

B.Metalic paper capacitor

C.Unpoled aluminium electrolyte capacitor

D.Poled aluminium electrolyte capacitor

Ans:D

**93.Which resistor is commonly used for general purpose application?**

A.Wire-wound resistors

B.Carbon resistors

C.Metal film resistors

D.Carbon film resistors

Ans:B

**94.To solder resistors on a PCB the soldering iron wattage should be:**

A.25  
B.60

C.150

D.240

Ans:A

**95.Intermediate frequency transformers use:**

A.Iron core

B.Ferrite core

C.Air core

D.Both iron core and Air core

Ans:B

**96.In a DC circuit capacitor acts like a:**

A.Open circuit

B.Inductance

C.Short Circuit

D.Resistance whose value depends on the dielectric material

Ans:A  
**97.Which one of them is not a semi conductor?**

A.Silicon

B.Germanium

C.Carbon

D.Galium arsenide

Ans:D

**98.The process of adding impurities to a pure semiconductors is known as:**

A.Diffusion

B.Forming

C.Doping

D.Etching

Ans:C

**99.When a germanium diode is connected in forward biased mode the voltage** **across the diode will be:**

A.Zero

B.0.7 Volt  
C.Equal to applied voltage

D.0.3 Volt

Ans:D

**100.The function of a diode can be compared with a:**

A.Replay

B.Switch

C.Inductor

D.Fuse

Ans:B