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JUNIOR INSTRUCTOR (MECHANIC MEDICAL ELECTRONICS)

ONLINE EXAM DATE:22-03-2017

**1.Gulmarg is a hill station in**

- A.Himachal Pradesh
- B.Maharashtra
- C.Jammu and Kashmir
- D.Tamil Nadu

Ans:C

**2.In India,which coast receives rain fall from North Eastern Monsoon?**

- A.Konkan coast
- B.Coromandal coast
- C.Malabar coast
- D.Gujarat coast

Ans:B

**3.Who is the Deputy Chairman of NITI Aayog?**

- A.Aravind Pangaria
- B.C.Ranga Rajan
- C.Urjith patel
- D.None of the above

Ans:A

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**4.Pradhan Mantri Suraksha Bima Yojana started on**

- A.28<sup>th</sup> August 2014
- B.22<sup>nd</sup> January 2015
- C.22<sup>nd</sup> September 2014
- D.15<sup>th</sup> July 2015

Ans:D

**5.How many censuses(including the 20 census)have been carried out since Independence?**

- A.07
- B.05
- C.06
- D.08

Ans:A

**6.Al-Hilal was a newspaper started for propagating nationalism by**

- A.Mohammed Ali
- B.Abul Kalam Azad
- C.Sayed Ahammed Khan
- D.Mahatma Gandhi

Ans:B

**7.Who was the British Prime Minister at the time of the**

## Second Round Table Conference?

- A.Clement Atlee
- B.Neville Chamberlain
- C.Ramsay MacDonald
- D.None of the above

Ans:C

## 8.Kaladi the birth place of Sankaracharya stands on the banks of the river

- A.Pamba
- B.Bharatapuzha
- C.Chaliyar
- D.Periyar

Ans:D

## 9.Kerala Pazhma,a pioneering Malayalam works on Kerala history written by

- A.J.Hough
- B.K.V.Krishna Ayyar
- C.Dr.Jerman Gundert
- D.Fr.Ferrolli

Ans:B

## 10.Who developed Cochin Harbour into a major port?

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- A.Cabral
- B.Lord Macaulay
- C.Robert Bristow
- D.Marthanda Varma

Ans:C

**11.Which social reformer was nominated by Travancore Government as a member of Sri Mulam Praja Sabha?**

- A.Sahodaran Ayyappan
- B.Dr.Palpu
- C.Sri Narayana Guru
- D.Ayyankali

Ans:D

**12.The teaching of one of the following social reformer,helped to strengthen the base of national movement in North Malabar**

- A.Swami Vagbhatananda
- B.Vaikunda Swamikal
- C.Chattampi Swamikal
- D.Sri Narayana Guru

Ans:A

**13.Poikayil Yohannan is associated with the organization of**

- A.Sadhujana Paripalana Yogam

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B.Prathyaksha Raksha Daiva Sabha

C.Atmavidhya Sangam

D.Arya Samajam

Ans:B

**14.jati Mimamsa(Critique of Caste)is written by**

A.Chattampi Swamikal

B.Pandit Karuppan

C.Sri Naryana Guru

D.Vaikunda Swamikal

Ans:C

**15. Which social reformer is known as ‘Vidyadhiraja’?**

A.K.Kelappan

B.Pandit Karuppan

C.Ayyankali

D.Chattampi Swamikal

Ans:D

**16.In which year,Fedel Castro officially steps down as President of Cuba?**

A.2008

B.2006

C.2015

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D.1976

Ans:A

**17. Who is the director of the popular film 'Pulimurugan'?**

A. Tomichan Mulakumpadam

B. Vysakh

C. Nadir Shah

D. Mohanlal

Ans:B

**18. Who hit the fastest Ranji Trophy Century at Thiruvananthapuram?**

A. Vijay Hansare

B. Gughale

C. Rishab Pant

D. Ankit Bhavan

Ans:C

**19. Who is the minister in charge of Portfolio of Kerala State Dairy Development Department?**

A. V.S. Sunilkumar

B. P. Thilothaman

C. T.P. Rama Krishnan

D. K. Raju

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Ans:D

**20.Britain's Andy Murray won the ATP World Tour Number One trophy after defeating**

A.Novak Djokovic

B.Stan Wawrinka

C.David Goffin

D.Kei Nishi Kori

Ans:A

**21.The mode of propagation of FM signal is by**

A.Sky wave

B.Ground wave

C.Direct wave

D.Reflected wave

Ans:C

**22.Adding a weak cell in series with a battery causes**

A.Decrease in Current

B.Increase in Current

C.Decrease in Voltage

D.No Change in Voltage and Current

Ans:C

**23.The ratio of ON time of a Pulse to the OFF time is known as**

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A.Pulse Repetition Frequency

B.Duty Cycle

C.Time Cycle

D.ON Cycle

Ans:B

**24.The Time Period of an A stable Multivibration is given by the expression**

A. $T=RC$

B. $T=0.707 RC$

C. $T=0.69 RC$

D. $T=1.38 RC$

Ans:C

**25.Wien Bridge Oscillator Circuit uses**

A.Negative Feed back

B.Positive Feed back

C.Both Negative and Positive Feed back

D.None of the above

Ans:C

**26.The Amplitude of undammed Oscillation**

A.Decreases with time

B.Increases with time

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C.Constant

D.Zero

Ans:C

**27.The impedance of the parallel RLC circuit at Resonance is**

A.Maximum

B.Minimum

C.Zero

D.Equal to DC resistance of the coil

Ans:A

**28.A series resonance circuit used to reject an undesired frequency is known as**

A.Wave guide

B.Wave trap

C.Band pass filter

D.Band stop filter

Ans:B

**29.Which filters are used to block the 50 Hz hum produced by AC mains in Amplifiers?**

A.Low Pass

B.High Pass

C.Band Pass

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D.Band Stop

Ans:A

**30.Voltage follower circuits are used for**

A.Current amplification

B.Voltage amplification

C.To avoid loading effect of source

D.All the above

Ans:C

**31.Which of the following is difficult to fabricate in an IC?**

A.Diode

B.Resistor

C.Transistor

D.Choke

Ans:D

**32.The output iimpedance of an Op-Amp is about**

A.1 MU

B.10 KU

C.500 U

D.50 U

Ans:D

**33.In Class B amplifier the Q point is Set Slightly above cut**

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**off.The purpose is to**

- A.Avoid Cross over distortion
- B.Increase efficiency
- C.Reduce power dissipation
- D.Increase gain

Ans:A

**34.Velocity of sound in water/liquid compared to that of air is**

- A.Less
- B.Either Less or More
- C.The Same
- D.More

Ans:D

**35.Specific Gravity of a fully charged Lead-Acid cell at room temperature will be**

- A.1.15
- B.1.38
- C.1.835
- D.1.28

Ans:D

**36.For IC 7815 the minimum unregulated DC input voltage should be**

- A.+15 V

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B.+17 V

C.+19 V

D.+13 V

Ans:B

**37.Two identical transistors having a of 50 each,are connected as Darlington pair,the current gain of the amplifier is**

A.100

B.1

C.2500

D.500

Ans:C

**38.Effect of the emitter by pass capacitor in a CE Amplifier is**

A.Gain

B.Input impedance

C.Output impedance

D.Both 1 and 2

Ans:D

**39.Which of the following is the most preferred type of biasing?**

A.Emitter bias

B.Voltage divider bias

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C.Base bias

D.Both 1 and 3

Ans:B

**40.A good power supply should have load regulation not more than**

A.0.10%

B.1%

C.5%

D.10%

Ans:A

**41.The phenomenon which causes reverse breakdown in Zener Diode is known as**

A.Hall effect

B.Break down effect

C.Avalanche effect

D.Induction effect

Ans:C

**42.The RMS voltage at the transformer secondary is 6 V.Its Peak Value is:**

A.9.6V

B.7.2V

C.8.5 V

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D.12 V

Ans:C

**43.When a diode is tested using an Ohm meter,it indicates high resistance in both direction,the condition of the diode is**

A.Open

B.Short

C.Leaky

D.Good

Ans:A

**44.Which of the following is a polarized capacitor?**

A.Paper Capacitor

B.Plastic film Capacitor

C.Ceramic Capacitor

D.Tandalum Electrolytic Capacitor

Ans:D

**45.If 'm'and 'n'are the modulus of any counters,then overall modulus of the cascaded counters is given by**

A.'mn'

B.' $2^{(mn)}$ '

C.' $mn^2$ '

D.' $(m/n)^2$ '

Ans:A

**46.IC 7476 is**

A.D Flip Flop

B.RS Flip Flop

C.JK FlipFlop

D.MS FlipFlop

Ans:C

**47.The output of a particular OP-Amp increases 8 V in 12 ms,the slew rate is**

A.90 V/ms

B.1 V/ms

C.1.5 V/ms

D.0.67 V/ms

Ans:D

**48.A Binary number 10101 is equivalent to decimal number**

A.19

B.12

C.27

D.21

Ans:D

**49.The number '(12)<sub>8</sub>' is equivalent to decimal**

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A.12

B.20

C.10

D.4

Ans:C

**50.The expression ' $\overline{ABC}$ ' can be simplified as**

A.' $\overline{A}.\overline{B}.\overline{C}$ '

B.' $AB+BC+CA$ '

C.' $AB+\overline{C}$ '

D.' $\overline{A}+\overline{B}+\overline{C}$ '

Ans:D

**51.CMOS circuits are extensively used for One chip computers mainly because of their**

A.Low power dissipation

B.Low cost

C.High noise immunity

D.Large packing density

Ans:D

**52.The principal disadvantage of a Piezo electric transducer is that it**

A.Can measure only force

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- B.Cannot measure static conditions
- C.Is too small to handle
- D.Produces only DC voltage

Ans:B

**53.Loading effect is principally caused by  
-----instruments**

- A.High resistance
- B.Low sensitivity
- C.High sensitivity
- D.High range

Ans:B

**54.Total internal reflection can take place when light travels  
from**

- A.Air to glass
- B.Glass to air
- C.Rarer to a denser medium
- D.Denser to a rarer medium

Ans:D

**55.The structure of an optical fibre consist of**

- A.Multimode step index
- B.Graded index

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C.Single mode step index

D.All of the above

Ans:D

**56.Noise margin is expressed in**

A.Decibel

B.Watt

C.Volt

D.Phon

Ans:C

**57.An X-OR gate produces an output only when its two inputs are**

A.High

B.Low

C.Different

D.Same

Ans:C

**58.In a JFET," $I_{DSS}$ " is known as**

A.Drain to source current with gate shorted

B.Drain to source current with gate shorted

C.Drain to source current with gate open

D.None of the above

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Ans:B

**59.Which of the following devices has the highest input impedance?**

A.JFET

B.Ordinary transistor

C.Crystal diode

D.MOSFET

Ans:D

**60.An SCR is turned off when**

A.Anode current is reduced to zero

B.Gate voltage is reduced to zero

C.Gate is reverse biased

D.None of the above

Ans:A

**61.A diac is-----switch**

A.AC

B.DC

C.Mechanical

D.None of the above

Ans:

**62.A UJT may be used as**

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- A.Amplifier
- B.Saw tooth generator
- C.Rectifier
- D.None of the above

Ans:B

**63.The horizontal plates of a CRO are supplied with-----to observe the waveform of a signal**

- A.Sinusoidal wave
- B.Cosine wave
- C.Sawtooth wave
- D.None of the above

Ans:C

**64.The modulus of a counter is**

- A.The number of flipflops
- B.The actual number of states in its sequence
- C.The number of times it recycles in a sec
- D.The maximum no of states

Ans:B

**65.The digital circuit that routes its single input signal to one of '2^n' output lines depending on the value of 'n' control lines is**

- A.Multiplexer

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B.Demultiplexer

C.Encoder

D.Data selector

Ans:A

**66.A full adder can be made up of**

A.Two half adders

B.Two half adders and a NOT gate

C.Two half adders and a OR gate

D.Two half adders and a AND gate

Ans:C

**67.Which of the following is called the Universal Bias?**

A.Emitter bias

B.Voltage divider bias

C.Base bias

D.None of the above

Ans:B

**68.The advantage of transistor over Vacuum tube is**

A.Very small size

B.Minimum power loss in the form of heat

C.Low operating voltage

D.All of the above

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Ans:D

**69.Which of the following should be as high as possible?**

A.Signal to noise ratio

B.Hystersis

C.Range

D.Frequency response

Ans:A

**70.The degree to which variation in the output of an instrument follow input variations is referred to as**

A.Sensitivity

B.Linerity

C.Hysteresis

D.Accuracy

Ans:B

**71.The 8051 microcontroller is of-----pin,package  
a-----processor**

A.30,1 byte

B.20,1 byte

C.40,8 bit

D.40,8 byte

Ans:C

**72.In Induction heating depth of penetration is proportional**

**to**

A. " $\sqrt{\text{frequency}}$ "

B. " $1/\sqrt{\text{frequency}}$ "

C. frequency

D. " $(\text{frequency})^2$ "

Ans:B

**73.The ON state voltage drop across IGBT is**

A.Less than that across MOSFET

B.Greater than that across MOSFET

C.Equal to that of MOSFET

D.None of the above

Ans:A

**74.Which BUS is bi-directional?**

A.Data bus

B.Control bus

C.Address bus

D.Multiplexed bus

Ans:A

**75.The composition of soft solder is**

A.Lead 37%-Tin 63%

B.Lead 50%-Tin 50%

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C.Lead 63%-Tin 37%

D.Lead 70%-Tin 30%

Ans:A

**76.Which digital IC package type makes the most efficient use of printed circuit board space?**

A.SMT

B.TO can

C.Flat-pack

D.DIP

Ans:A

**77.Which of the following can be act as Shear Protectorand**

A.Serum

B.Silicon oil

C.Glucose

D.Glutamic acid

Ans:A

**78.Non linear relationship between shear stress and shear rate exist in**

A.Newtonian fluids

B.Non Newtonian fluids

C.Both(1)and (2)

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D.None of these

Ans:B

**79.The mechanical means of accomplishing sterilization of fermentation media/equipment is**

A.Ultrasonic

B.Radiation

C.Chemical agents

D.None of these

Ans:A

**80.The collection efficiency by diffusion increases with**

A.Decreasing particle size

B.Decreasing air velocity

C.Both 1 and 2

D.Increasing particle size

Ans:C

**81.MRIC machines are calibrated in -----units**

A.Power

B.Tesla

C.Pressure

D.Hertz

Ans:B

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**82.Phonocardiograph is used for recording the sounds connected to which of the following**

- A.Pumping action of heart
- B.Movement of valves
- C.Pulsation in blood vessels
- D.None of these

Ans:A

**83.The circuit which controls the Turn ON and Turn OFF and length of X-Ray delivered it to the patient is**

- A.Filament circuit
- B.HT-circuit
- C.Timing circuit
- D.None of these

Ans:C

**84.In dialysis the waste products are transferred to the dialysate by**

- A.Viscosity variation
- B.Diffusion
- C.Surface tension
- D.Centrifuge

Ans:B

**85.Among the following imaging system which has**

**noninvasive character**

- A.CT imaging system
- B.PET system
- C.Nuclear imaging system
- D.Ultrasonic imaging system

Ans:D

**86.The most modern difibrilators will have position for synchronizing discharge pulse with the patient's**

- A.EEG
- B.ECG
- C.EMG
- D.None of these

Ans:B

**87.Cardiac catheterization is a technique used primarily to diagnose**

- A.Nerve deficiencies
- B.Valve deficiencies
- C.Lung deficiencies
- D.None of these

Ans:B

**88.X-Ray images are**

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- A.Unidimensional
- B.Multidimensional
- C.Two dimensional
- D.Three dimensional

Ans:C

**89.In Audiometer which channel has pure tone or speech output**

- A.First
- B.Second
- C.Third
- D.Fourth

Ans:A

**90.In Bio-Telemetry the FDM stands for**

- A.Frequency division modulation
- B.Fesimile distance modulation
- C.Fourier domain modulation
- D.Frequency division multiplexing

Ans:D

**91.An Endoscope is an Instrument for examining**

- A.The Cancer Cells
- B.Blood Flow Rates

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C.The Head Surfaces

D.A Body Cavity

Ans:D

**92.The ability of the trace to remain visible on the face of CRT is known as**

A.Appearance

B.Persistence

C.Resolution

D.Precision

Ans:B

**93.The implanted receiver has been used with patient for stimulating**

A.Nerves

B.Bones

C.Muscles

D.Tracts

Ans:A

**94.A-----is used to discharge the defibrillator when the paddles are properly positioned**

A.Thumb switch

B.Foot switch

C.Paddle switch

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D.Charge switch

Ans:A

**95.IN ERG measurements the reference electrode is made from**

A.Carbon

B.Silver

C.Carbon chloride

D.Silver chloride

Ans:D

**96.The advantage of star connected supply system is that**

A.Line current is equal to phase current

B.Two voltages can be used

C.Phase sequence can be easily changed

D.It is a simple arrangement

Ans:B

**97.Internet works on**

A.Packet switching

B.Circuit switching

C.Both(1)and (2)

D.None

Ans:C

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**98.A circuit breaker is a**

- A.Power factor correcting device
- B.Wave form correcting device
- C.Both 1 and 2
- D.Current interrupting device

Ans:D

**99.For communication from one network to another---device is used**

- A.Gate way
- B.Utility server
- C.Printer server
- D.Filer server

Ans:D

**100.Coaxial cable consists of-----concentric copper conductors**

- A.1
- B.2
- C.3
- D.4

Ans:B

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