

FINAL ANSWER KEY

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Question1:-Who among the following is known as Grand Father of Indian Nation

- A:-Raja Ram Mohan Ray
 - B:-Dayananda Saraswathi
 - C:-Swami Vivekananda
 - D:-Bala Gangadhar Tilak
- Correct Answer:- Option-B

Question2:-Which Indian river is known as sorrow of Orissa

- A:-Mahanadi
 - B:-Narmada
 - C:-Tapti
 - D:-Padma
- Correct Answer:- Option-A

Question3:-Dr. Babasaheb Ambedkar International Airport is in

- A:-Ahammadabad
 - B:-Hyderabad
 - C:-Indore
 - D:-Nagpur
- Correct Answer:- Option-D

Question4:-Lord Curzon's Partition of Begal came to effect on

- A:-18 october 1905
 - B:-16 october 1905
 - C:-19 october 1905
 - D:-17 october 1905
- Correct Answer:- Option-B

Question5:-Sangai is the state animal of

- A:-Tripura
 - B:-Meghalaya
 - C:-Manipur
 - D:-Arunachal Pradesh
- Correct Answer:- Option-C

Question6:-Who was the commissioner of India Census 2011

- A:-Vinod Rai
 - B:-C.Chadramouli
 - C:-Suryaprakash
 - D:-K.T.M.Iqbal
- Correct Answer:- Option-B

Question7:-Ajantha cave paintings depict scenes from the

- A:-Ramayana
 - B:-Mahabharatha
 - C:-Rigveda
 - D:-Jataka tales
- Correct Answer:- Option-D

Question8:-The Sansad Adarsh Gram Yojana was launched on the birth anniversary of

- A:-Sardar Vallbai Patel
 - B:-Syamaprasad Mukherjee
 - C:-Mahathma Gandhi
 - D:-Jayaprakash Narayan
- Correct Answer:- Option-D

Question9:-Who among the following published the daily namely 'voice of India'

- A:-W.C.Banarjee

B:-Annie Basant
C:-Dada Bai Navaraji
D:-Firoz shah mehta
Correct Answer:- Option-C

Question10:-Name the Indian sports woman selected as the brand ambassador of Telengana state

A:-Sania Mirza
B:-Saina Nehwal
C:-P.V.Sindhu
D:-Koneru Hampi
Correct Answer:- Option-A

Question11:-J.C. Daniel award 2014 was awarded to.....

A:-Adoor Gopala Krishnan
B:-M.T. Vasudevan Nair
C:-Amal Neerad
D:-Ashique Abu
Correct Answer:- Option-B

Question12:-The revolt held to wear upper cloth for lower caste women in kerala is....

A:-Channar agitation
B:-Guruvayur satyagraha
C:-Paliyam satyagraha
D:-Malabar riot
Correct Answer:- Option-A

Question13:-Which district of kerala speaks more number of languages?

A:-Kozhkkode
B:-Malappuram
C:-Kannur
D:-Kasaragod
Correct Answer:- Option-D

Question14:-Which of the following team are behind the Malayali Memorial Movement?

A:-K.P. Shankara menon,Dr.Palpu,G.P. Pillai
B:-Chattambi Swamikal,C.V.Ramanpillai,V.T.Bhattathirippad.
C:-T.K.Madhavan,Dr.Palpu,K.Kelappan
D:-Mannath Pathmanabhan,K.P. Kesava menon,P.krishnapillai
Correct Answer:- Option-A

Question15:-Which among the following is known as the first college in India?

A:-CMS College Kottayam
B:-BCM College kottayam
C:-University College
D:-Maharajas College
Correct Answer:- Option-A

Question16:-Cochin Stock exchange came in to being.....

A:-1959
B:-1969
C:-1979
D:-1989
Correct Answer:-**Question Cancelled**

Question17:-The largest back water in kerala is

A:-Ashtamudi
B:-Chaliyar
C:-Vembanad
D:-punnamada
Correct Answer:- Option-C

Question18:-The total number of wildlife sanctuaries in Kerala is.....

A:-12
B:-13
C:-14
D:-15
Correct Answer:- Option-B

Question19:-The gold medalist among malayalees in Asian Games 2014 is.....

A:-Preeja Sreedharan

B:-Dipika Pallikkal

C:-O.P. Jaisha

D:-Tintu Luka

Correct Answer:- Option-D

Question20:-The co-operative dairy products entrepreneurship MILMA was established in the year...

A:-1980

B:-1970

C:-1960

D:-1950

Correct Answer:- Option-A

Question21:-A free electron means?

A:-All the electrons in an atom.

B:-The electrons not belongs to the atom itself.

C:-Valance electrons which are loosely attached to the nucleus.

D:-All the above

Correct Answer:- Option-C

Question22:-The speed with which the effect of emf is experienced at all parts of a conductor resulting the flow of current is

A:-Velocity of charge

B:-Velocity of propagation of electric field

C:-Speed of response

D:-None of above

Correct Answer:- Option-B

Question23:-When a potential difference is applied to a resistor the heat is produced by

A:-Due to the collision of free electrons with the molecules or atoms of the resistor

B:-Power dissipation

C:-Speed of response

D:-None of above

Correct Answer:- Option-A

Question24:-On application of heat on electrolyte it exhibit

A:-Positive temp. coefficient

B:-No change in its resistance

C:-Resistance will increase

D:-Negative temp. Coefficient.

Correct Answer:- Option-D

Question25:-An operational amplifier is a

A:-dependent source

B:-Independent source

C:-model source

D:-None of above

Correct Answer:- Option-A

Question26:-A wire of resistance of 6 ohms is bent in the form of a circle, the effective resistance between two points on any diameter is

A:-6 ohm

B:-12 ohm

C:-1.5 ohm

D:-9 ohm

Correct Answer:- Option-C

Question27:-A wire of resistance R ohm is stretched to double its length, then its resistance become

A:- $R/4$

B:- $R/2$

C:- $2R$

D:- $4R$

Correct Answer:- Option-D

Question28:-Two parallel wires carrying current in opposite direction

A:-Attracts each other

B:-Repel each other

C:-cancel each other

D:-None of the above

Correct Answer:- Option-B

Question29:-A coil has a resistance of 25 ohm and inductance of 5H is connected to a DC source of 50V is suddenly switched off what will be the value of current at the time of switching off

A:-2A

B:-10A

C:-1.96A

D:-0.5A

Correct Answer:- Option-A

Question30:-The inductive reactance of an inductor in a DC circuit is

A:- $2\pi fL$

B:-Zero

C:- ωL

D:- ∞

Correct Answer:- Option-B

Question31:-In a circuit element if the p.d is higher than the applied voltage of the source then it will be

A:-DC circuit

B:-Neither ac nor dc circuit

C:-AC circuit

D:-For both circuit

Correct Answer:- Option-C

Question32:-The moving system of an indicating type of electrical instrument is subjected to

A:-A deflecting torque

B:-Controlling torque

C:-Damping torque

D:-All the above

Correct Answer:- Option-D

Question33:-The most efficient damping employed in electrical instrument is

A:-Air friction

B:-Fluid friction

C:-Eddy current

D:-None of the above

Correct Answer:- Option-C

Question34:-In thermocouple ammeter the heat produced is proportional to

A:-Current

B:-Square root of current

C:-square of current

D:-voltage

Correct Answer:- Option-C

Question35:-In a cross coil megger ,when two currents are passing through them The torque acting up on the coil

A:-opposite direction

B:-same direction

C:- $\tan\Phi$

D:-none of the above

Correct Answer:- Option-A

Question36:-The frequency error in induction type ammeter is compensated by

A:-Self compensated

B:-not required

C:-non inductive shunt

D:-inductive shunt

Correct Answer:- Option-C

Question37:-An induction watt meter consist of

A:-series electromagnet

B:-shunt electromagnet

C:-permanent magnet

D:-series and shunt electromagnet

Correct Answer:- Option-D

Question38:-The efficiency of a solar cell is

A:-High

B:-Very high

C:-Low

D:-Very low

Correct Answer:- Option-C

Question39:-in core type transformers the number of flux paths are

A:-2

B:-more than 2

C:-Half of the path

D:-single

Correct Answer:- Option-D

Question40:-The relation between the excitation current and magnetic flux of a transformer is

A:-Current leads flux

B:-Flux leads the current

C:-They are in phase

D:-None of the above

Correct Answer:- Option-A

Question41:-The equivalent resistance and leakage reactance of a transformer can be found out by

A:-Open circuit test

B:-short circuit test

C:-polarity test

D:-None of the above

Correct Answer:- Option-B

Question42:-Hydro generator is the commercial name of

A:-Round rotor generator

B:-Cylindrical rotor synchronous generator

C:-Salient pole synchronous generator

D:-All the above

Correct Answer:- Option-C

Question43:-An electrical machine with lower efficiency will have

A:-Less losses

B:-More losses

C:-No losses

D:-Low operating cost

Correct Answer:- Option-B

Question44:-The effect of armature reaction under the pole shoes can be limited by

A:-Inter poles

B:-High reluctance pole tips

C:-Compensating windings

D:-All the above

Correct Answer:- Option-C

Question45:-DC motors are started by using starters because

A:-To increase the starting current

B:-To reduce the starting current

C:-To increase the speed

D:-none of the above

Correct Answer:- Option-B

Question46:-Swinburne 's test can not be performed on

A:-Shunt motor

B:-compound motor

C:-series motor

D:-All the above

Correct Answer:- Option-C

Question47:-which of the following are used as constant speed drive

A:-Dc shunt motor

B:-DC series motor

C:-DC compound motor

D:-All the above

Correct Answer:- Option-A

Question48:-No load slip of an induction motor is

A:-Large

- B:-No slip
- C:-Very small
- D:-None of the above

Correct Answer:- Option-C

Question49:-The relative advantage of a cage motor over a wound rotor motor of same power is

- A:-Cage motor is More efficient
- B:-Cage motor is less cost
- C:-Better operating power factor
- D:-All the above

Correct Answer:- Option-D

Question50:-The maximum torque of an induction motor is proportional to

- A:-Square of supply voltage
- B:-Supply voltage
- C:-Reciprocal of the square of supply voltage
- D:-None of the above

Correct Answer:- Option-A

Question51:-A synchronous motor runs on

- A:-AC only
- B:-DC only
- C:-Both ac and dc
- D:-None of the above

Correct Answer:- Option-A

Question52:-If the armature coil of a DC machine is N turns then Number of conductors of any coil side

- A:-2N
- B:-N/2
- C:-N²
- D:-N

Correct Answer:- Option-D

Question53:-The distance between two consecutive and similar top coil side is called

- A:-Back pitch
- B:-Front pitch
- C:-Winding pitch
- D:-Commutator pitch

Correct Answer:- Option-C

Question54:-In lap wound machine the number of brushes used is equal to

- A:-number of poles
- B:-2
- C:-number of turns
- D:-number of commutator segments

Correct Answer:- Option-A

Question55:-A moving iron instrument can measure

- A:-AC
- B:-AC & DC
- C:-DC
- D:-Pulse

Correct Answer:- Option-B

Question56:-The emf developed in any physical system act in such a direction to tend to

- A:-Decrease co energy at constant mmf
- B:-Decrease the co energy at constant flux
- C:-Increase the co energy at constant mmf
- D:-Increase the co energy at constant flux

Correct Answer:- Option-C

Question57:-The factor to be considered while selecting the site of a hydel power plant

- A:-Quantity of water available
- B:-Head of water
- C:-Accessibility of the site
- D:-All the above

Correct Answer:- Option-D

Question58:-Specific speed of a turbine is the speed at which it develop 1 metric HP under the head of

A:-1 metric meter

B:-1 meter

C:-1 feet

D:-1 cubic meter

Correct Answer:- Option-B

Question59:-The active recovery voltage depends on

A:-Power factor

B:-Armature reaction

C:-Circuit condition

D:-All the above

Correct Answer:- Option-D

Question60:-The highest current that a circuit breaker is capable of breaking at recovery and re striking voltage is

A:-Breaking capacity

B:-Making capacity

C:-Recovery current

D:-recovery voltage

Correct Answer:- Option-A

Question61:-Circuit breaker intended for rapid auto re closing with rated operating duty o-m-co in which m represents

A:-Making

B:-Breaking

C:-Dead time

D:-Re closing

Correct Answer:- Option-C

Question62:-The heat produced by an electric heating element is according to

A:-Ohm's law

B:-Stefan's law

C:-Snell's law

D:-Faraday's law

Correct Answer:- Option-B

Question63:-Ajax Wyatt furnace make use of a crucible in

A:-Horizontal

B:-At an angle of 120°

C:-Vertical

D:-None of the above

Correct Answer:- Option-C

Question64:-High frequency capacitance heating method is employed for heating

A:-Plastic

B:-Wood

C:-Dehydration of foods

D:-All the above

Correct Answer:- Option-D

Question65:-in carbon arc welding the carbon electrode with respect to work is

A:-Negative

B:-Positive

C:-As positive or negative

D:-Non of the above

Correct Answer:- Option-A

Question66:-The filament lamp work at a pf of

A:-.5

B:-1

C:-.7

D:-0

Correct Answer:- Option-B

Question67:-Which lamp has the highest luminous efficiency

A:-Filament

B:-Neon

C:-Mercury vapor

D:-Sodium vapor

Correct Answer:- Option-D

Question68:-In illumination space to height ratio is

- A:-1 to 2
- B:-1
- C:-less than 1
- D:-None of the above

Correct Answer:- Option-A

Question69:-The induction motor cannot run at synchronous speed because if so

- A:-Rotor emf would be zero
- B:-Rotor current would be zero
- C:-Rotor torque would be zero
- D:-All the above

Correct Answer:- Option-D

Question70:-Semi closed or totally closed slots are used in 3 ϕ Induction Motor essentially to

- A:-Reduce magnetizing current
- B:-Increase efficiency
- C:-Improve starting torque
- D:-Increase magnetizing current

Correct Answer:- Option-A

Question71:-In DC machine the armature windings are placed on the rotor for effective

- A:-Generation of voltage
- B:-Development of torque
- C:-Commutation
- D:-Energy conversion

Correct Answer:- Option-C

Question72:-The most powerful electromagnet in a normal DC machine operating at full load condition is

- A:-Field winding
- B:-Armature winding
- C:-inter pole winding
- D:-Compensating winding

Correct Answer:- Option-A

Question73:-Which of the following is called as stray flux

- A:-Armature flux
- B:-Field flux
- C:-Leakage flux
- D:-None of the above

Correct Answer:- Option-C

Question74:-When a coil moves through a time varying flux the induced emf present in the coil is

- A:-Dynamically induced
- B:-Statically induced
- C:-Motional emf
- D:-Both dynamically and Statically induced

Correct Answer:- Option-D

Question75:-A 3 ϕ SCIM stator rewound for 6 poles with out any alteration in the rotor will run at a speed

- A:-<1000 rpm
- B:-<1500 rpm
- C:-<1200 rpm
- D:-0 rpm

Correct Answer:- Option-A

Question76:-A 3 ϕ star connected IM takes 20A from supply. When connected in delta the motor will take a current of

- A:- $20\sqrt{3}$ A
- B:- $20/\sqrt{3}$ A
- C:-20 A
- D:-10A

Correct Answer:- Option-A

Question77:-The armature core of a DC machine is laminated to minimise

- A:-Hysteresis loss
- B:-Eddy current loss
- C:-Mechanical loss
- D:-Temperature loss

Correct Answer:- Option-B

Question78:-Which part of a DC motor has the maximum flux

- A:-pole core
- B:-Interpole
- C:-Leading pole tip
- D:-Trailing pole tip

Correct Answer:- Option-C

Question79:-The air blast circuit breaker have best application in system of operating voltage

- A:-Below 132KV
- B:-132KV to 400KV
- C:-Above 400KVA
- D:-None of this

Correct Answer:- Option-B

Question80:-The cheapest shielding material used in Nuclear plant is

- A:-Concrete
- B:-Brick
- C:-Boron
- D:-Cadmium

Correct Answer:- Option-A

Question81:-Superposition Theorem is essentially based on the concept of

- A:-Reciprocity
- B:-Linearity
- C:-Duality
- D:-Non linearity

Correct Answer:- Option-B

Question82:-Form factor for DC supply voltage is always

- A:-Zero
- B:-Unity
- C:-Infinity
- D:-Any value between zero and one

Correct Answer:- Option-B

Question83:-In purely resistive circuits

- A:-Power factor is unity
- B:-Power consumed is zero
- C:-Heat produced is zero
- D:-Power factor is zero

Correct Answer:- Option-A

Question84:-In a series resonant circuit, the impedance below resonant frequency is

- A:-Capacitive
- B:-Inductive
- C:-Resistive
- D:-Depends on values of circuit components

Correct Answer:- Option-A

Question85:-The figure of merit of RLC circuit will increase if

- A:-R decreases
- B:-R increases
- C:-Voltage increases
- D:-Voltage decreases

Correct Answer:- Option-A

Question86:-In an Intrinsic Semiconductor, Fermi Level represents the energy, with probability of its occupation of

- A:-0 %
- B:-25 %
- C:-50 %
- D:-100 %

Correct Answer:- Option-C

Question87:-An Infra Red LED is usually fabricated from

- A:-Ge
- B:-Si
- C:-GaAs

D:-GaAsP

Correct Answer:- Option-C

Question88:-Avalanche Photo diodes are preferred over PIN diodes in optical communication systems because of

A:-Speed of operation

B:-Higher Sensitivity

C:-Larger bandwidth

D:-Larger power handling capacity

Correct Answer:- Option-D

Question89:-Power Transistors are invariably provided with

A:-Heat Sink

B:-Metallic casing

C:-Soldered connections

D:-Fan for heat removal

Correct Answer:- Option-A

Question90:-In a JFET, beyond Pinch Off Voltage, as the drain voltage increases, the drain current

A:-Decreases

B:-Remains constant

C:-Increases

D:-May increase or decrease

Correct Answer:- Option-B

Question91:-After firing an SCR, if the gate pulse is removed, the SCR current

A:-Remains the same

B:-Reduces to zero

C:-Rises up

D:-Rise a little, then falls to zero

Correct Answer:- Option-A

Question92:-One of the characteristic of the Emitter Follower is its

A:-Low input resistance

B:-Low current gain

C:-Low voltage gain

D:-High output resistance

Correct Answer:- Option-C

Question93:-Cross Over Distortion in class B push pull amplifier is eliminated by

A:-Class C operation

B:-Class AB operation

C:-Elimination of output transformer

D:-Reducing transistor bias

Correct Answer:- Option-B

Question94:-A high Q tuned circuit in a tuned amplifier permits it to have high

A:-Selectivity

B:-Fidelity

C:-Sensitivity

D:-Frequency range

Correct Answer:- Option-A

Question95:-Which of the following Op-Amp system is non linear?

A:-Current to Voltage Converter

B:-Logarithmic Amplifier

C:-Active Filter

D:-Delay Equalizer

Correct Answer:- Option-B

Question96:-At microwave frequencies, the size of the antenna becomes

A:-Very large

B:-Large

C:-Small

D:-Very small

Correct Answer:- Option-D

Question97:-In a single phase full converter, the number of SCRs conducting during overlap is

A:-1

B:-2

C:-3

D:-4

Correct Answer:- Option-D

Question98:-A sinusoidal voltage of amplitude 1 kV is amplitude modulated by another sinusoidal voltage to produce 30% modulation. The amplitude of each sideband term is

A:-300 volts

B:-150 volts

C:-500 volts

D:-250 volts

Correct Answer:- Option-B

Question99:-An interrupt in which the external device supplies its address as well as the interrupt request is known as

A:-Vectored interrupt

B:-Maskable interrupt

C:-Non - Maskable interrupt

D:-Designated interrupt

Correct Answer:- Option-A

Question100:-Logic 1 in negative logic system is represented by

A:-Zero level

B:-Lower voltage level

C:-Higher voltage level

D:-Negative voltage

Correct Answer:- Option-B