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# KPSC SE

Previous Year Paper  
26 Aug, 2015



**PROVISIONAL ANSWER KEY**

Question Paper Code: 16/2015/OL  
 Category Code: 325/2011  
 Exam: Sub Engineer in KSEB  
 Medium of Question: English  
 Date of Test 26-08-2015  
 Alphacode A

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:-Ahmmadabad
- 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 Vallabai 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.Banerjee
- B:-Annie Basant
- C:-Dada Bai Navaroji
- 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:-Koneri Hampi

Correct Answer:- Option-A

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

- A:-Adoor Gopalakrishnan
- 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:-Chammar 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:-Kozhikode
- 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,Pkrishnapillai

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:- Option-C

Question17:-The largest back water in kerala is .....

- A:-Ashramudi
- 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:-Preeta Sreedharan
- B:-Dipika Pallikal
- 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:-Valence 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:- $\omega L$
- D:- $\infty$

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 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-C

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:- $N^2$   
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 develops 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  $0-m-0$  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  $120^\circ$   
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:-None 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 3Ø 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 Ø 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 3Ø star connected IM takes 20A from supply. When connected in delta the motor will take a current of  
 A:-20/3 A  
 B:-20 $\sqrt{3}$  A  
 C:-20 A  
 D:-10 A  
 Correct Answer:- Option-C

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:-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-D

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

