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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 Vallbal 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,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:-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:- $\omega L$   
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 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-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<sup>2</sup>  
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 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:- $20\sqrt{3}$  A  
B:- $20/\sqrt{3}$  A  
C:-20 A  
D:-10A  
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:-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-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