PROVISIONAL ANSWER KEY

16/2015/OL

Question Paper Code: Category Code: Exam: 325/2011 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 Ouestion2:-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 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:-Vinced Pat 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 D-:Manabaratana C-:Riyveda 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 Mukherje C:-Mahathma Gandhi D:-Jayaprakash Narayan Correct Answer: Option-D Question9-Who among the following published the daily namely 'voice of India' A:-WC.Banarjoe B:-Annie Basant C:-Dada Bai Navaroi D:-Firoz shah mehta Correct Answer:- Option-C Question 10:-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 Question 1:-J.C. Daniel award 2014 was awarded to..... A:-Adoor Gopala Krishnan B:-M.T. Vasudevan Nair C:-Amal Neerad D:-Ashique Abu D.-Sanaya F.M. Correct Answer:- Option-B Question 12:-The revolt held to wear upper cloth for lower caste women in kerala is.... A:-Channar aglitation 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 Correct Answer:- Option-D Question 14--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. D:-Ontoinno vonnanci, C-Manianguna, F. Danivatani ppau. C:T.K.Madhavan,D.P.Falpu, 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:- Option-C Question 77: 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-Theorem opposite of the second se C:-1960 D:-1950 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 nucleous. 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 respo D:-None of above Correct Answer:- Option-B Question 23-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 streatched to double its length, then its resistance become A:-R/4 B:-R/2 C:-2R D:-4R 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 Ouestion30:-The inductive reactance of an inductor in a DC circuit is A:-2∏fL B:-Zero C:-wL 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 D:-Comming 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 B:-Square root of current C:-square of current D:-voltage Correct Answer:- Option-C Question3:-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:-TanΦ 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 C-real of the pain 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 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:-Comparent in guidance 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:-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

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D:-number of commutator segments Correct Answer:- Option-A Question55:-A mooving 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 D:-An 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 reet 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 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 30 Induction Motor essentially to A--Reduce magnetizing current B:-Increase efficiency C:-Improve starting torque D:-Increase magnetizing current Correct Answer:- Option-A Ouestion71:-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

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Question73:-Which of the following is called as stray flux 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:-Drawnically induced. A:-Dynamically induced R-Systemically induced C:-Motional emf D:-Both dynamically and Statically induced Correct Answer:- Option-D Question75:-A 3 Ø SCIM stator rewound for 6 poles withh 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/√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 Question 78:-Which part of a DC motor has the maximum flux A:-pole core B:-Interpole C:-Leading pole tip D.-Trailing 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 D-Voltage decreases Correct Answer:- Option-A Question66:-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 C:-Larger bankwidth D:-Larger power handling capacity Correct Answer:- Option-D Question59:-Power Transistors are invariably provided with A:-Heat Sink B:-Metallic casing C:-Soldered connections D:-Fan for heat removal Correct Answer:- Option-A Outcommunication opposition oppositi opposition opposition opposition opposition opposit 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-Stees up
C-Stees stills, then fails to zero
C-sections2-O-cons
C-sections2-C-ons
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