PROVISIONAL ANSWER KEY

		PROVIS
	Question Paper Code:	20/2015/OL
	Category Code:	726/2014
	Exam: Medium of Question:	Junior Instructor - Electrician English
	Date of Test	28-09-2015
	Alphacode	A
Question1:-Who is known as 'Al A:-Brahmananda Sivayogi	athoor Swamikal'?	
B:-Chattampi Swamikal		
C:-Ayya Vaikundar		
D:-Kumara Guru Correct Answer:- Option-A		
Question2:-The author of the w		
A:-Vakkom Maulavi		
B:-VT Bhattathirippad C:-Vagbhatananda		
D:-Swadeshabhimani Ram	akrishna Pillai	
Correct Answer:- Option-E		don fon Annumodo in 20152
A:-Serena Williams	nted as Kerala's brand Ambassad	ioi ioi Ayurveua ili 2015?
B:-Sachin Thendulkar		
C:-Steffi Graf D:-Saurav Ganguly		
Correct Answer:- Option-C		
		the 2015 World Population Day?
A:-Investing in young peop B:-Vulnerable population in		
C:-Focus is on Adolescent		
D:-Fight poverty: Educate		
Correct Answer:- Option-B Question5:-How many Malayale	es got Njanapeedam Award till 2	014?
A:-3		
B:-5 C:-4		
D:-6		
Correct Answer:- Option-B		
Question6:-Excise duty is a tax A:-Import of goods	levied on the?	
B:-Export of goods		
C:-Sale of goods		
D:-Production of goods Correct Answer:- Option-D	1	
Question7:-The first vice chairn		
A:-Arvind Panagaria		
B:-Narendra Modi C:-Arun Jaitley		
D:-Arun Shourie		
Correct Answer:- Option-A Question8:-The pass at the sout	hern part of the Nilgiri Hills in S	outh India is 2
A:-Thamarasseri Pass	norn part of the Hugh Hugo in o	
B:-The Palaghat Gap		
C:-The Bolan Pass D:-Shenkottai Pass		
Correct Answer:- Option-B		
Question9:-Who presided the fit A:-Badaruddin Tyabji	rst meeting of INC at Bombay?	
B:-Dadabhai Naoroji		
C:-Gopalakrishna Gokhale		
D:-WC Banerjee Correct Answer:- Option-D	1	
		e protest against the visit of?
A:-Prince of Wales		
B:-Crips Mission C:-Simon Commission		
D:-Queen Victoria		
Correct Answer:- Option-C Question11:-Who is known as A		
A:-Dr Palpu	branam Encom or Return:	
B:-Ayyankali		
C:-Pandit Karuppan D:-Sreenarayana Guru		
Correct Answer:- Option-C		
Question12:-International day of	of UN Peacekeepers?	
A:-May 25 B:-June 14		
C:-July 11		
D:-May 29 Correct Answer:- Option-D		
		which is the biggest employer in the world?
A:-US Defence Departmen B:-Indian Railway	t	
C:-Indian Army		
D:-Chinese Army		
Correct Answer:- Option-A	sen for Columbia's highest civilia	n award in 20152
A:-Sri Sathya Sai Baba	sen for Columbia's ingliest civilia	n awaru in 2015:
B:-Matha Amrutananda Ma	ayi	
C:-Sri Sri Ravisankar D:-Sushama Swaraj		
Correct Answer:- Option-C		
	ving river has its source near the	Manasarovar Lake?
A:-Brahmaputra B:-Yamuna		
C:-Ravi		
D:-Jhelum		
Correct Answer:- Option-A Question16:-The most fertile re		
A:-The Deccan Plateau		
B:-The Himalayan area		
C:-The Central Highlands D:-The Indo-Gangetic Plair	1	
Correct Answer:- Option-D	•	
Question17:-'Commonweal' was A:-Annie Besant	s a weekly published by?	
B:-Bala Gangadhar Tilak		
C:-Mahatma Gandhi D:-Subhash Chandra Bose		
D:-Subhash Chandra Bose Correct Answer:- Option-A		
-		

Question18:-'Kanneerum Kinavum' is associated with ...? A:-Mannath Padmanabhan B:-VT Bhatathirippad C:-K Kelappan D:-Kumaranassan Correct Answer:- Option-B Question19:-The place 'Eraviperoor' is connected with? A:-NSS B-SNDP C:-PRDS D:-CMI Correct Answer:- Option-C Question20:-The first martyr of the Revolt of 1857 ? A:-Rani Laxmi Bhai B:-Mangal Pandey C:-Bahadursha D-Nana Saheb Correct Answer:- Option-B Question21:-Recommended current density for a copper bus bar which is unenclosed should not exceed A:-165 A/sq. cm B:-118 A/sq. cm C:-178 A/sq. cm D:-135 A/sq. cm Correct Answer:- Option-A Question 22-16 which type of winding, a long coil of sufficient length is firs wound and then inserted in one slot and the reminder of the length is turned and inserted in the adjascent slots? A-Skein winding B:-Involute coil winding C:-Chain winding D:-Basket winding Correct Answer:- Option-A Outcomment of the standard of C:-the motor will run normally D:-the motor will stop Correct Answer:- Option-A Question24:-Buchholz relay operates on A:-oil pressure B:-gas pressure C:-temperature D:-current Correct Answer:- Option-B Question25:-The cooling oil used in a transformer should have A:-to absorb moisture easily when exposed to air B:-high insulation resistance C:-low heat conductivity D-low fining point Correct Answer:- Option-B Question26:-The maximum value of torque that a synchronous motor can develop with out losing its synchronism is known as A:-breaking torque B:-synchronising torque C:-pull out torque D:-pull in torque Correct Answer: Option-C Question27:-The transformer whose secondary is not isolated from the primary is A:-current transformer B:-potential transformer C-automatormet C-automaformer D-step up transformer Correct Answer:- Option-C Question28-in the magneto-generator type insulation tester the handle is cranked at a speed of ----- rpm approximately. A:-1000 rpm B:-1500 rpm C:-750 rpm D:-160 rpm Correct Answer:- Option-D Question29:-The light meter measures A:-luminance B:-luminous intensity C:-luminous flux D:-illuminance Correct Answer:- Option-D Question 30:-A servo voltage stabiliser provides constant voltage to an accuracy around A:-±1% to ±0.5% B:-0 to ±1% C:-±0.5% to ±1.5% Correct Answer:- Option-A Question31:-Submersible pumps comes under the category of A:-centrifugal pumps B:-jet pumps C:-reciprocating pumps D:-mono bloc pumps Correct Answer: Option-A Question32:-The size of the transformer used in battery charger depends upon A:-charging voltage of the battery B:-charging power of the battery C:-charging power of the battery D:-charging current capacity D:-charging energy of the battery Correct Answer:- Option-B Question 33:-According to IE rules a clear space of not less than ------ in width shall be provided in front of the switch board A:-91.44 cm B:-9.144 cm C:-91.44 mm D:-9.144 mm Correct Answer:- Option-A Question34:-To solder parts and terminals of medium size, the soldering iron used should be of A:-30 W B:-60 W C-80 W D:-125 W Correct Answer:- Option-B Question35:-The size of binding wire used for binding insulator in overhead lines should not be less than A:-2 sq.mm B:-1.5 sq.mm C:-2.5 sq.mm D: 1 sq.mm Correct Answer:- Option-A Question36:-The fusible plug fitted on the top of the electrical geyser casing is to A:-disconnect the electrical supply in case of short circuit

Home Page

B:-release the pressure inside the tank in case of thermostat failure C:-fuse and release the steam inside the heater in case of over heat D:-eject the 3 pin plug to disconnect the supply in case of earth fault Correct Answer:- Option-B Question37:-With the help of wheat stone bridge resistance in the range of ------ can be measured. A:-0 to 1KΩ B:-10Ω to 1MΩ C:-100Ω to 10MΩ D-1Q to 1MQ Correct Answer- Option-D Question38:-The heat generated in a conductor by the flow of an electric current is proportional to the square of the current value, the resistance of the conductor and the time for which the current flows. This is stated by the law A:-Ohm's law B:-Joule's law C:-Faraday's law D:-Murphy's law Correct Answer:- Option-B Question39:-In case of double squirrel cage induction motors, the outer cage has A:-high resistance and low reactance B:-high resistance and high reactance D-ingritesature out ingritesature C-iow resistance and hip reactance D-iow resistance and low reactance Correct Answer-Option-A Question40-The property retentivity of material is useful on the construction of A:-transformers B:-electromagnets C:-permanent magnets D:-non magnetic substances D-FIGUI Integreux substances Correct Answer:- Option-C Question41:-The leakage flux in a transformer depends upon A:-load current, voltage, frequency and power factor B:-load current, voltage and frequency C:-load current and voltage D:-load current Correct Answer:- Option-D Question42:-The slip rings of wound rotor machines are made from A:-mild steel B:-copper C:-brass D:-cast iron Correct Answer:- Option-C Question43:-In large generators, Hydrogen is used as A:-conducting medium B:-insulating medium C:-insulating and cooling medium D:-conducting and cooling medium Correct Answer:- Option-C Question44-Highest power factor can be expected in which method of heating? A:-Electric arc heating B:-Dielectric heating C:-Induction heating D:-Resistance heating Correct Answer:- Option-D Question45:-Sulpher hexa fluoride is used in A:-Dynamos B:-DC series motors C:-Switch gears B:-to prevent damage to rectifiers and transistors C:-to avoid electric shock D:-to avoid damage to altern Correct Answer:- Option-B Ouestion47:-Magnetic over load relays operate faster than bi-metallic relays, becausemagnetic over load relays operate on A:-current intensity B:-voltage intensity C:-thermal intensity D-power factor Correct Answer-- Option-A Question48:-3 phase squirrel cage induction motors with high slip, high starting torque and relatively low starting current are comes under the class of A:-Class D motors B:-Class C motors C:-Class B motors D:-Class A motors Correct Answer:- Option-A Question49:-Measuring instruments are classified based on their measuring accuracy. The precision and laboratory measuring devices comes under quality class of A:-1.0 B:-0.3 C:-0.5 D:-1.5 Correct Answer:- Option-B Question50:-A triac when tested by an ohm meter will show a lower resistance in the order of 300 ohms between terminals Question50:-A that when tested by an onin meter win show a lower resistance in the order of 500 onns between terminals
A:-MT 2 positive and G negative
B:-MT 1 positive and G negative
C:-MT 2 negative and G positive
D:-MT 1 positive and MT 2 negative
C:-MT 2 negative and G positive
Question51:--______ is the measure of how much potential difference the insulation layer can withstand without breaking down.
A:-Insulation resistance
B:-Broekdown voltance B:-Breakdown voltage C:-Resistance D:-Dielectric strength Correct Answer:- Option-D Question52::The light output of Tin oxide Sodium lamps is in the order of A:50 lumens/watt B:45 lumens/watt C::75 lumens/watt D:-150 lumens/watt Correct Answer:- Option-D Question53:-The torque of a three phase induction motor is proportional to A:-square root of applied voltage B:-applied voltage C:-square of applied voltage D:-half of applied voltage Correct Answer:- Option-C Question34:-Tap changing transformers are used for A:-stepping up the voltage B:-stepping down the voltage C:-both stepping up and stepping down the voltage

Home Page

D-supplying low current for instruments Correct Answer:- Option-C Question55--Which Dc motor have negligible effect on speed with increase in torque? A:-DC differential compound motor B:-DC cumulative compound motor C:-DC series motor D:-DC shunt motor Correct Answer:- Option-D Question56:-In a pure inductive AC circuit, the average true power is equal to A:-V x I watts B:-Zero watts D:-Sector wates C:Square of current multiplied by reactance Watts D:-V x I volt amperes Correct Answer:- Option-B Question57:-The part of an instrument which helps in leading in and leading out the current to the moving coil is A:-the spindle B:-the copper or aluminium disc C:-jewel bearing D:-control spring Correct Answer:- Option-D Question58:-An outside microme A:-±0.1mm eter can measure thickness and outside diameters to an accuracy of B:-±0.5mm C:-±0.001mm D:=±0.00 mm D:=±0.01 mm Correct Answer:- Option-D Question59:-When a secondary battery is charged at 2% to 3% of normal rate for a long period, it is known as A:-boost charge B:-trickle charge C:-freshening charge D-initial charge Correct Answer- Option-B Question60-Double squirrel cage induction motors are used where _____ torque is essential. A:-high starting torque B:-low starting torque C:-low running torque D:-high running torque Correct Answer:- Option-A Question61:-Which one of the following wiring circuit is not in accordance with IE rules? A:-Corridor wiring B:-Tunnel wiring C:-Godown wiring D-Bank wring D-Bank wring Correct Answer- Option-B Question62.-The distance between the two active sides of a coil under adjacent dissimilar poles is called A:-coil pitch B:-winding pitch C:-pole pitch D:-pitch factor Correct Answer:- Option-A Question3:For the blocked rotor test of a 3 phase induction motor, the supply voltage should be limited to less than _____ percentage of rated voltage. A:-5% B:-10% C--3% D:-20% Correct Answer:- Option-A Question64:-The amount of heat required to increase the temperature of one kilogram of water through 1°C is A:-3187 joule B:-4187 joule C:-4187 calorie D:-3187 calorie Correct Answer:- Option-B Question65:-Admittance is the reciprocal of A:-resistancve B:-conductance C:-reactance D:-impedance Correct Answer:- Option-D Question65-The damping winding in a synchronous motor is generally used A-to provide starting torque only B-to reduce noise level C-to prevent hunting and to provide the starting torque D-to reduce eddy currents Correct Answer:- Option-C Question67:-Voltage dependent resistors are used as A:-as current stabilisers B:-as heating elements C:-to suppress surges D:-for inductive circuits Correct Answer:- Option-C Question68:-In a DC generator, bush shifting is done to A:-alter the inter pole flux B:-alter the main field flux C:-neutralise the cross magnetising effect C-neutralise the closs magnetising effect D-neutralise the demagnetising effect Correct Answer- Option-C Question69:-To control a lamp from 4 positions, how many switches are required? A:-4 two-way switches B:-4 intermediate switches C:-3 two-way switches and one intermediate switch D:-2 intermediate switches and 2 two-way switches Correct Answer:- Option-D Question70:-The fusing factor for HRC fuse is A:-2.0 B:-1.7 C:-1.4 D:-1.1 Correct Answer:- Option-D Ouestion71:-Low and medium voltage underground cables should be laid at a depth of from the ground surface to the top of the cable. A:-0.75m B:-0.9m C:-1.0m D:-1.05m Correct Answer:- Option-A Question72:-For low and medium voltage overhead lines, the minimum clearance above ground, which is erected across a street, shall not be less than A:-5.791m B:-6.096m C:-5.486m D:-4.572m Correct Answer:- Option-A

Home Page

Question73:-In capacitor start, capacitor run motors, the capacitors used are A:-both capacitors are of same value B:-one larger value capacitor of oil filled type and a smaller value capacitor of electrolytic type. C:-one larger value capacitor of electrolytic type and a smaller value capacitor of oil filled type D:-both capacitors are of electrolytic type. Correct Answer:- Option-C
Question74-While erecting a pole, the depth of pit below the ground level, in normal soil should be about ______ of the length of the pole. A:-1/6 B:-1/5 C:-1/4 D:-1/7 Correct Answer:- Option-A Question 75-in an AC operated relay, the purpose of shading coil placed near the tip of magnetic pole face is to A:-eliminate chatter B:-eliminate humming C:-to reduce eddy current D:-to reduce hysteresis loss Correct Answer:- Option-A Question76:-To test an armature for the short circuited coils, is used along with the growler. A:-milli-voltmeter B:-hacksaw blade C:-ohm meter D:-meggar Correct Answer:- Option-B Question77:-The type of fire extinguisher used where liquified gas is on fire is A:-water filled fire extinguisher B:-dry powder extinguisher C:-foam type fire extinguisher D:-carbon dioxide fire extinguishe Correct Answer:- Option-B Ouestion 78-Earthing one of the wires of electrical system, to limit the maximum voltage to earth under normal operating conditions is known as A:-equipment earthing B:-system earthing C:-generator earthing D:-substation earthing Correct Asswer:-Option-B Question79:-To measure the earth electrode resistance, the current and pressure spikes of the earth resistance tester are to be driven into the ground at a distance of _____ from the main electrode under test. A:-20m and 10m apart respectively B:-25m and 12.5m apart respectively C:-20m and 10m apart respectively in a straight line D:-25m and 12.5m apart respectively in a straight line Correct Answer:- Option-D Question80-The type of joint used for overhead lines for tapping the electrical energy perpendicular to the service line is A:-knotted tap joint B:-aerial tap joint C:-tee joint D-britannia tee joint Correct Answer:- Option-D Question81:-According to BIS and NEC, the clearance between the bottom point of the ceiling fan and the floor shall not be less than A:-2.5m B:-2.75m C:-2.25m D:-2.4m Correct Answer:- Option-D Question82:-If firing angle in an SCR rectifier is increased, the output is A:-remains same B:-SCR is turned off D:-DCH St three on C:-dccreased D:-increased Correct Answer:- Option-C Question33--Which electrode of the CRT mainly controls the brightness of the image on the screen? A:-Anode B:-Cathode C:-Control grid D:-Focusing electrodes Correct Answer:- Option-C Question84:-Efficiency of a transformer is maximum, when A:-no load loss is equal to full load loss B:-hysteresis loss is equal to eddy current loss C:-copper loss is equal to eddy current loss D:-copper loss is equal to iron loss Correct Answer:- Option-D QuestionE3:For the parallel operation of two transformers, the phase sequence must be identical, otherwise, during the cycle A:-when secondaries are loaded, it will produce unequal loading conditions B:-impossible to take the full load output without excessive heating of one of the transformer C:-each pair of phases will be open circuited D-each pair of phases will be short circuited Correct Answer: Option-D Question66:-A two layer lap wound 4 pole generator with 16 coils will have a pole pitch of A:-32 B:-16 D:-4 Correct Answer:- Option-C Question87:-The maximum safe temperature for class F insulating material is A:-155°C B:-130°C C:-120°C D:-180°C Correct Answer:- Option-A Question88:-The ratio of intensity of magnetisation to the magnetising force is known as A:-permeability B:-permittivity C:-susceptibility D-magnetic potential Correct Answer- Option-C Question89-While testing the field coil connections by compass method, the DC voltage to be applied to the field coil is A:-10 to 20% of rated voltage B:-the rated voltage C:-60 to 70% of rated voltage D:-200% of rated voltage Correct Answer:- Option-A Question90:-The relays which are capable of maintaining their contacts in the last assumed position after the power is cut off are A:-latching relays B:-thermal relays C:-reed relays D:-elctro-mechanical relay Correct Answer:- Option-A Question91:-In large motor generator sets, the AC motor used is usually A:-squirrel cage type induction motor

B-wound rotor type induction motor C-synchronous motor D-universal motor Correct Answer: - Option-C Question92:-A watt meter measures the A-Apparent power B:-Active power C-Reactive power D-Dower factor D-Power factor Correct Answer:- Option-B Question93:-A series resonant circuit is known as acceptor circuit, because its _____ will be maximum A:-voltage B:-current C:-power factor D:-frequency Correct Answer:- Option-B Question94-With two watt meter method of 3 phase power measurement, if one watt meter gives negative indication, then, the power factor will be A-unity B:-zero D: Anto C: more than 0.5 D: Jess than 0.5 Correct Answer: - Option-D Question95:-A moving coil milliammeter having a resistance of 10 ohm gives full scale deflection, when a current of 5mA is passed through it. If the instrument to be used to measure a current up to 1A, then A:-a resistance of 0.502 ohm must be connected in series with the ammeter B-a resistance of 0.502 ohm must be connected in series with the load C:-a resistance of 0.502 ohm must be connected in parallel to the ammeter D-a resistance of 0.502 ohm must be connected in parallel to the load D-a resistance of 0.502 onm mus pe connected in parallel to the load Correct Answer: Option-C Question96:-The instrument which give the value of quantity to be measured in terms of deflection and instrument A:-secondary instruments B:-indicating instruments D-absolute instruments Correct Answer:- Option-D Question97:-A measuring instrument is enclosed inside an iron case. This is for protecting the measuring mechanism from A:-heat B:-magnetic flux C:-static electricity C-statuc electricity D-hysteresis effect Correct Answer- Option-B Question98:-The cell voltage of a Lithium cell is A-:2.1 to 2.6V B:-2.5 to 3.6V C:-1.2 to 1.4 V D:-1.5V D-1.5V Correct Answer:- Option-B Question99:-The illumination is directly proportional to the cosine of the angle made by the normal to the illuminated surface with the direction of the incident flux. This statement is associated with A-Macbeth's law of illumination B-Phunsen's law of illumination C-Lambert's cosine law D:-Plank's law Correct Answer:- Option-C Question100:-In a drill, _____ he helps to form the cutting edge A:-Land B:-Shank C:-Tang D:-Flutes Correct Answer:- Option-D