SQL result

Host: localhost
Database: instinct
Generation Time: Oct 14, 2016 at 09:16 AM
Generated by: phpMyAdmin 4.0.10deb1 / MySQL 5.5.52-0ubuntu0.14.04.1
SQL query: SELECT * FROM `questions` LIMIT 0, 362 ;
Rows: 266

qid	question	option1	option2	answer
1	MOSFET is a CCVS	TRUE	FALSE	B
2	Op-Amp Amplifier uses which feedback?	Positive	Negative	B
3	Sum of all Voltages in a mesh is 0	TRUE	FALSE	A
4	DC Series Motor can run on no load	TRUE	FALSE	B
5	In Medium length transmission lines, effect of capacitance is neglected	TRUE	FALSE	B
6	What is the co-efficient of coupling in an ideal system?	0	1	B
7	A signal can be sampled at less than twice its frequency	TRUE	FALSE	B
8	Speed of data transmission in 4-G network of telecom is 2 Mbps	TRUE	FALSE	B
9	The diode used in AM demodulator is a Schottky Diode	TRUE	FALSE	B
10	Generation of FM signal from PM signal requires an integrator	TRUE	FALSE	B
11	An Inverter converts DC to AC	TRUE	FALSE	A
12	A capacitor can be used as a memory element.	TRUE	FALSE	A
13	Latch is level sensitive	TRUE	FALSE	A
14	The JK flip flop is basically a gated SR flip-flop	TRUE	FALSE	A
15	MOSFET amplifier does not contain feedback	TRUE	FALSE	B
16	8085 microprocessor has how many pins?	30	40	B
17	Salient type alternators have less number of poles	TRUE	FALSE	B
18	A Kaplan turbine has low specific speed	TRUE	FALSE	B
19	Arduino works on what voltage level	5V	10V	A
20	How many entries will be in the truth table of a 3 input NAND gate ?	4	8	B
21	When was the transistor invented?	1934	1947	B
22	Varactor diode has a variable capacitance	TRUE	FALSE	B
23	A Rheostat can be used as a potentiometer	TRUE	FALSE	B
24	A Galvanometer can be used as an Ammeter	TRUE	FALSE	A
25	Which dissipates the least power?	TTL	CMOS	B
26	Solar panels produces AC voltage	TRUE	FALSE	B
27	At t=0+, Inductor acts like a short circuit.	TRUE	FALSE	B

qid	question	option1	option2	answer
28	An IIR system is always stable	TRUE	FALSE	B
29	An FIR system is always stable	TRUE	FALSE	A
30	What does an PLL control?	Voltage	Phase	B
31	If forward gain=4, feedback gain=0.5, will the system oscillate?	Yes	No	B
32	Non salient type alternators have low speed	TRUE	FALSE	B
33	Field's Test is conducted on DC shunt motors	TRUE	FALSE	B
34	Nodal analysis can be applied for both planar and non planar networks.	TRUE	FALSE	A
35	To save energy during braking, what braking is used?	regenerative	dynamic	A
36	Which was the first city in India to adopt electric traction.	Kolkata	Mumbai	B
37	What type electric drive is used in cranes?	Multimotor	Group	A
38	What is the dielectric material used in precision small value capacitor?	Metal	Vacuum	B
39	The emf induced in a conductor rotating in bipolar field is	AC	DC	A
40	The main purpose of choke is to block _____ frequencies	High	Low	B
41	A 240V, 60W lamp has a working resistance of:	1400 ohm	960 ohm	B
42	The length of a certain conductor of resistance 100? is doubled and its cross-sectional area is halved. Its new resistance is:	400 ohm	100 ohm	A
43	Voltage drop is the _____ potential	Maximum	Diff in	B
44	The largest number of 100W electric light bulbs which can be operated from a 240V supply fitted with a 13A fuse is:	31	7	A
45	When an atom loses an electron, the atom becomes ___ ly charged	+ve	-ve	A
46	The energy used by a 1.5kW heater in 5 minutes is:	450000J	7500J	A
47	The unit of resistivity is:	ohm per metre	ohm-metre	B
48	A resistor marked as 4K7G indicates a value of is ____ ohm with 20 tolerance	47	4.7k	B
49	The resistance of a 2 km length of cable of cross-sectional area 2mm square and resistivity of 2X10^-8?	0.02 ohm	20 ohm	B
50	A nickel coil has a resistance of 13 ohm at 50 degree Celsius. If the temperature coefficient of resistance at 0 Celsius is 0.006 per Celsius, the resistance at 0 Celsius is:	10 ohm	16.9 ohm	A
51	A coil of wire has a resistance of 10 at 0 degree Celsius. If the temperature coefficient of resistance for the wire is 0.004 per Celisus, its resistance at 100 Celsius is:	14 ohm	0.4 ohm	A
52	A colour coding of red-violet-black on a resistor indicates a value of ____ ohm with 20%	270	27	B

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53	An inductance of 10mH connected across a 100V, 50 Hz supply has an inductive reactance	pi	1000 pi	A
54	A Zener diode is used for Voltage _____	Regulation	Rectification	A
55	An SCR is a device having ____ layers and ____ junctions.	Four, three	Three,four	A
56	An amplifier has a gain of 10,000 expressed in decibels the gain is	40	80	B
57	An emitter follows has _____ input and _____ output impedance	Low, high	High, low	B
58	Semi-conductor diode time constant is equal to _____ carrier life time	Miniority	Majority	B
59	To prepare a P type semiconducting material the impurities to be added to silicon are	B, Ga	Ga, P	A
60	FET is a good signal chopper because . No offset _____ at zero drain	I , V	V, I	B
61	In Bipolar Junction transistors, the type of configuration which will give both voltage gain and current gain is	CE	CB	A
62	To increase the input resistance and decrease the output resistance in negative feedback, the type used is	Current Shunt	Voltage Series	B
63	A series capacitance used in a filter circuit represents	High-Pass	Band-Pass	A
64	An ideal power supply is characterized by _____ internal resistance	Zero	Infinte	A
65	An ideal diode should have _____ resistance in reverse bias	Zero	Infinitely	B
66	One coulomb-per-second is equal to one:	Ampere	Joule	A
67	Which of the following is one of the functions performed by a diode?	Rectifier	Amplifier	A
68	"Power factor" is _____ of the phase difference between E and I	Cos	Sin	A
69	A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/hr, what is the length of the platform?	120 m	240 m	B
70	Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is:	01:03	03:02	B
71	Father is aged three times more than his son Ronit. After 8 years, he would be two and a half times of Ronit's age. After further 8 years, how many times would he be of Ronit's age?	2 times	2.5 times	A
72	The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?	4 years	8 years	A

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73	Present ages of Sameer and Anand are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Anand's present age in years?	24	27	A
74	Tanya is older than Eric. Cliff is older than Tanya. Eric is older than Cliff. If the first two statements are true, the third statement is	TRUE	FALSE	B
75	Blueberries cost more than strawberries.Blueberries cost less than raspberries.Raspberries cost more than strawberries and blueberries.If the first two statements are true, the third statement is	TRUE	FALSE	A
76	All the trees in the park are flowering trees.Some of the trees in the park are dogwoods.All dogwoods in the park are flowering trees.If the first two statements are true, the third statement is	TRUE	FALSE	A
77	Mara runs faster than Gail.Lily runs faster than Mara.Gail runs faster than Lily.If the first two statements are true, the third statement is	TRUE	FALSE	B
78	P in the star actor's name Neil P. Harris stands for Pattrick.	TRUE	FALSE	A
79	The Kingston Mall has more stores than the Galleria.The Four Corners Mall has fewer stores than the Galleria.The Kingston Mall has more stores than the Four Corners Mall.If the first two statements are true, the third statement is	TRUE	FALSE	A
80	All the tulips in Zoe's garden are white.All the pansies in Zoe's garden are yellow.All the flowers in Zoe's garden are either white or yellow. If the first two statements are true, the third statement is	TRUE	FALSE	B
81	In the HIMYM, in which season did they show the mother.	9	8	B
82	Rover weighs less than Fido.Rover weighs more than Boomer.Of the three dogs, Boomer weighs the least.If the first two statements are true, the third statement is	TRUE	FALSE	A
83	All the offices on the 9th floor have wall-to-wall carpeting.No wall-to-wall carpeting is pink.None of the offices on the 9th floor has pink wall-to-wall carpeting.If the first two statements are true, the third statement is	TRUE	FALSE	A
84	Class A has a higher enrollment than Class B.Class C has a lower enrollment than Class B.Class A has a lower enrollment than Class C.If the first two statements are true, the third statement is	TRUE	FALSE	B
85	All Lamels are Signots with buttons.No yellow Signots have buttons.No Lamels are yellow.If the first two statements are true, the third statement is	TRUE	FALSE	A
86	The hotel is two blocks east of the drugstore.The market is one block west of the hotel.The drugstore is west of the market.If the first two statements are true, the third statement is	TRUE	FALSE	A

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87	A toothpick is useful.Useful things are valuable.A toothpick is valuable.If the first two statements are true, the third statement is	TRUE	FALSE	A
88	Tom puts on his socks before he puts on his shoes.He puts on his shirt before he puts on his jacket.Tom puts on his shoes before he puts on his shirt.If the first two statements are true, the third statement is	TRUE	uncertain	B
89	Three pencils cost the same as two erasers.Four erasers cost the same as one ruler.Pencils are more expensive than rulers.If the first two statements are true, the third statement is	TRUE	FALSE	B
90	Taking the train across town is quicker than taking the bus.Taking the bus across town is slower Than driving a car.Taking the train across town is quicker than driving a car.If the first two statements are true, the third statement is	TRUE	uncertain	B
91	Cloudy days tend to be more windy than sunny days.Foggy days tend to be less windy than cloudy days.Sunny days tend to be less windy than foggy days.If the first two statements are true, the third statement is	TRUE	uncertain	B
92	At a parking lot, a sedan is parked to the right of a pickup and to the left of a sport utility vehicle.A minivan is parked to the left of the pickup.The minivan is parked between the pickup and the sedan.If the first two statements are true, the third statement is	TRUE	FALSE	B
93	The bookstore has a better selection of postcards than the newsstand does.The selection of postcards at the drugstore is better than at the bookstore.The drugstore has a better selection of postcards than the bookstore or the newsstand.If the first two statements are true, the third statement is	TRUE	FALSE	A
94	A jar of jelly beans contains more red beans than green.There are more yellow beans than red.The jar contains fewer yellow jelly beans than green ones.If the first two statements are true, the third statement is	TRUE	FALSE	B
95	Four defensive football players are chasing the opposing wide receiver, who has the ball. Calvin is directly behind the ball carrier. Jenkins and Burton are side by side behind Calvin. Zeller is behind Jenkins and Burton. Calvin tries for the tackle but misses and falls. Burton trips. Which defensive player tackles the receiver?	Burton	Jenkins	B
96	A four-person crew from Classic Colors is painting Mr. Field's house. Michael is painting the front of the house. Ross is in the alley behind the house painting the back. Jed is painting the window frames on the north side, Shawn is on the south. If Michael switches places with Jed, and Jed then switches places with Shawn, where is Shawn?	alley behind	front	B

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97	In a four-day period Monday through Thursday each of the following temporary office workers worked only one day, each a different day. Ms. Johnson was scheduled to work on Monday, but she traded with Mr. Carter, who was originally scheduled to work on Wednesday. Ms. Falk traded with Mr. Kirk, who was originally scheduled to work on Thursday. After all the switching was done, who worked on Tuesday?	Mr. Carter	Mr. Kirk	B
98	Four people witnessed a mugging. Each gave a different description of the mugger. Which description is probably right? He was _____ , thin, and middle-aged.	Average height.	Tall.	B
99	Ms. Forest likes to let her students choose who their partners will be; however, no pair of students may work together more than seven class periods in a row. Adam and Baxter have studied together seven class periods in a row. Carter and Dennis have worked together three class periods in a row. Carter does not want to work with Adam. Who should be assigned to work with Baxter?	Carter	Adam	A
100	At the baseball game, Henry was sitting in seat 253. Marla was sitting to the right of Henry in seat 254. In the seat to the left of Henry was George. Inez was sitting to the left of George. Which seat is Inez sitting in?	251	254	A

qid	question	option1	option2	answer
101	Robert : I am not lying Beth: I am telling the truth. Which one of them is lying?	Roberta	Beth	A
102	Four friends in the sixth grade were sharing a pizza. They decided that the oldest friend would get the extra piece. Randy is two months older than Greg, who is three months younger than Ned. Kent is one month older than Greg. Who should get the extra piece of pizza?	Randy	Ned	B
103	The high school math department needs to appoint a new chairperson, which will be based on seniority. Ms. West has less seniority than Mr. Temple, but more than Ms. Brody. Mr. Rhodes has more seniority than Ms. West, but less than Mr. Temple. Mr. Temple doesn't want the job. Who will be the new math department chairperson?	Mr. Rhodes	Mr. Temple	A
104	Danielle has been visiting friends in Ridge-wood for the past two weeks. She is leaving tomorrow morning and her flight is very early. Most of her friends live fairly close to the airport. Madison lives ten miles away. Frances lives five miles away, Samantha, seven miles. Alexis is farther away than Frances, but closer than Samantha. Approximately how far away from the airport is Alexis?	nine miles	six miles	B

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105	Nurse Kemp has worked more night shifts in a row than Nurse Rogers, who has worked five. Nurse Miller has worked fifteen night shifts in a row, more than Nurses Kemp and Rogers combined. Nurse Calvin has worked eight night shifts in a row, less than Nurse Kemp. How many night shifts in a row has Nurse Kemp worked?	8	9	B
106	If Max is younger than most boys in his group and James has the average age of all girls. For sure we know that there is one student older than	JAMES	MAX	B
107	QAR, RAS, SAT, TAU, _____	UAV	UAT	A
108	DEF, DEF2, DE2F2, _____, D2E2F3	DEF3	D2E2F2	B
109	How many times do the hands of a clock coincide in a day?	20	22	B
110	How many times are the hands of a clock at right angles to each other?	22	44	B
111	Facebook - Sheryl	Goldberg	Sandberg	b
112	How many times in a day the hands of a clock are straight?	22	44	B
113	Gandhi the movie was made in _____	1981	1982	b
114	Next word in the song: Keopi hanjanui yeoyureul aneun pumgyeok	inneun	yeoja	B
115	Flipkart - Bansal	Jenny	Binny	B
116	8051	Controller	Processor	B
117	An accurate clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?	144 degrees	180 degrees	b
118	Which of the following set is equivalent to set A= {a,b,c,d}	B={1,2,3,4}	B={c,a,b}	A
119	If A and B are two sets, then (A-B)UB is	A	AUC	B
120	If A and B are two sets, then (A-B) INTERSECTION B is	A	{}	B
121	If A INTERSECTION B INTERSECTION C, then (A-B)U(B-C)U(A-C) is	A U B U C	{ }	B
122	Find the solution set of the equation x^2+x+2=0 in roster form	{1,-2}	{}	A
123	Find the roster form of the following set E= The set of all letters in the word NOUN	E={N,O,U,N}	E={N,U,O}	B
124	Google page	Larry	Harry	A
125	Find the number of elements in the power set of {1,2}	4	0	A
126	M in TMA PAI stands for	Madhav	Mohan	A
127	Number of subsets of A= {0}	1	2	B
128	FIND THE ANTONYM OF ABOMINATE	loathe	adore	B
129	FIND THE ANTONYM OF OBSEQUIOUS	servile	superciliouS	B
130	FIND THE ANTONYM OF OROTUND	not resonant	not reddish	A
131	FIND THE ANTONYM OF RECANT	assert	predicT	B

qid	question	option1	option2	answer
132	FIND THE ANTONYM OF UPBRAID	defer	laud	B
133	FIND THE ANTONYM OF PLENITUDE	luxury	scarcity	B
134	FIND THE ANTONYM OF SCURRILOUS	decent	Savage	A
135	FIND THE ANTONYM OF FULMINATION	praise	ratification	A
136	FIND THE ANTONYM OF DISTEND	deteriorate	onstrict	B
137	FIND THE ANTONYM OF TOUT	cast aspersions on	misrepresent	B
138	Arrange the words given below in a meaningful sequence 1. Presentation 3. Arrival 5. Introduction 2. Recommendation 4. Discussion	3, 5, 1, 4, 2	5, 3, 4, 1, 2	A
139	How many pairs of letters in 'CHAIRS' have as many letters between them in the word as in the alphabet?	1	2	A
140	A is B's sister. C is B's mother. D is C's father, E is D's mother. Then, how is A related to D?	Grandfather	Granddaughter	B
141	If South-East becomes North, North-East becomes west and so on. What will West become?	South East	South West	A
142	Fill in the blanks 664, 332, 340, 170, __, 89	85	178	B
143	A 240V, 60W lamp has a working resistance of	960?	B. 325?	A
144	The rms value of a current in a wire which carries a dc current of 10 amp and a sinusoidal alternating current of peak value 20 amp is	A. 17.3 amp	B. 22.4 amp	A
145	A bounded signal is always zero outside the interval [-t0, t0] for some t0.	TRUE	FALSE	A
146	A signal is processed by a causal filter with transfer function G(s). For a distortion less output signal waveform, G(s) must provide _____ phase shift for a frequency.	Constant	Linear	B
147	A zero mean random signal is uniformly distributed between limits -a and +a and its mean square value is equal to its variance. Then the rms value of the signal is	A. a/(3)^0.5	B. a * (3)^0.5	A
148	For the impulse response of a causal linear time invariant system, principle of superposition holds. The given statement is	A. True	B. False	A
149	A cascade of 3 linear time invariant systems is causal and unstable. From this we conclude that, Atleast one system is _____.	Unstable	Causal	A
150	For a periodic square wave, which one of the following statements is TRUE?, The fourier series coefficient exist but the reconstruction point converges at	A.Most point.	B.No points	A
151	For linear time invariant systems, that are Bounded Input and Bounded Output stable, the unit step response will be absolutely integrable. This statement is	A. True	B. False	B
152	Last digit of 2^1000	6	8	B

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153	A band limited signal with a maximum frequency of 5 kHz is to be sampled. The statement "According to the sampling theorem, the sampling frequency 5 kHz is valid" is	A. True	B. False	B
154	For a periodic signal, v(t) = 30sin 100t + 10cos 300t + 6sin(500t + pi/4), the fundamental frequency in rad/sec is 100.	A. True	B. False	A
155	Let x(t) be a periodic signal with period T, Let y(t) = x(t-t0) + x(t+t0) for some t0. The fourier series coefficients of y(t) are denoted by bk. If bk=0 for all odd k. Then t0 can be equal to	A. T/8	B. T/4	B
156	For a continuous time causal and stable LTI system, all poles must lie within mod(s) =1. The given statement is	A. True	B. False	B
157	A group of students decided to collect as many paise from each member of group as is the number of members. If the total collection amounts to Rs. 98.01, the number of the member is the group is:	101	99	B
158	A D.C shunt motor is running at 1200 rpm, when excited with 220 V D.C. Neglecting losses and saturation, the speed of the motor when connected to a 175 V DC supply is	A. 1050 rpm	B. 1200 rpm	B
159	The compensating winding in a DC machine is located on pole shoes to avoid the sparking at the brushes. The given statement is	A. True	B. False	B
160	A 240 V DC shunt motor with an armature resistance of 0.5 ohms has a full load current of 40 amp. Find the ratio of the stalling torque to the full load torque when a resistance of 1 ohm is connected in series with the armature	A. 4	B. 6	A
161	A permanent magnet DC commutator motor has a noload speed of 6000 rpm when connected to a 120 V dc supply. The armature resistance is 2.5 ohms and other losses may be neglected. The speed of the motor with supply voltage of 60 V developing torque of 0.5 Nm, is	A. 2673 rpm	B. 2863 rpm.	A
162	Speed is velocity	TRUE	FALSE	B
163	A dc series motor driving an electric train faces a constant power load. It is running at rated speed and rated voltage. If the speed has to be brought down to 0.25 pu. The supply voltage has to be approximately brought down to	A. 0.5 pu	B. 0.125 pu	A
164	A 8 pole, DC generator has a simplex wave wound armature containing 32 coils of 6 turns each. Its flux per pole is 0.06 Wb. The machine is running at 250 rpm. The induced armature voltage is	A. 192 V	B. 384 V	B
165	A 50 KW dc shunt motor is loaded to draw rated armature current at any given speed. When driven at half the rated speed by armature voltage control, the output power delivered by the motor is	A. 25 KW	B. 50KW	A

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166	In a DC machine, compensating winding is used for neutralizing armature reaction where as interpole winding is used for producing residual flux. The given statement is	A. True	B. False	B
167	A 220V DC machine supplies 20 Amp at 200V s a generator. The armature resistance is 0.2 ohm. If the machine is now operated as a motor at some terminal voltage and current but with the flux increased by 10%, the ratio of motor speed to generator speed is	A. 0.87	B. 0.92	A
168	The dc motor, which can provide zero speed regulation at full load without any controller is _____ compound	CUMMULATIVE	DIFFERENTIAL	B
169	A 240 V DC shunt motor draws 15 amp while supplying the rated laod at a speed of 80 rad/sec. The armature resistance is 0.5 ohm and the field winding resistance is 80 ohm. The net voltage across the armature resistance at the time of plugging will be	A. 234 V	B. 474 V.	B
170	A 240 V DC shunt motor draws 15 amp while supplying the rated laod at a speed of 80 rad/sec. The armature resistance is 0.5 ohm and the field winding resistance is 80 ohm. The external resistance to be added in the circuit to limit armature current to 125% of its rated value is	A. 31.1 ohm	B. 31.9 ohm	A
171	A 4 point starter is used to start and control the speed of a dc shunt motor with the field weakening control. State weather the given statement is true or false	A. True	B. False	A
172	A 220 V dc shunt motor is operating at a speed of 1440 rpm. The armature resistance of 1 ohm and armature current is 10 amp. If the excitation of the machine is reduced by 10%, the extra resistance to be put in the armature circuit to maintain the same speed and torque will be	A. 1.79 ohm	B. 18.9 ohm	A
173	For a single-phase, two winding transformer, the supply frequency and voltage both are increased by 10%. The percentage changes in the hysteresis loss and eddy current loss, respectively are	A. 10 and 21	B. -21 and 10	A
174	A Buchholz relay is used for protection of a transformer against only internal faults. State whether the given statement is true or false	A. True	B. False	B
175	When a transformer winding suffers a short circuit, the adjoining turns of the same winding experience an attractive force. State whether the given statement is true or false	A. True	B. False	A
176	Two transformers of identical voltage but of different capacities are operating in parallel. For satisfactory load sharing per unit impedances must be equal. State whether the given statement is true or false.	A. True	B. False	A
177	The function of oil in a transformer is to provide lubrication. State whether the given statement is true or false	A. True	B. False	B

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178	Auto transformer is used in transmission and distribution when efficiency considerations can be ignored. State whether the given statement is true or false	A. True	B. False	B
179	Keeping in view the requirement of parallel operation, which of the 3 phase connections given below are possible	Delta-Star	Delta-Delta	A
180	The low voltage winding of a 400/230 V, single phase, 50 Hz transformer is to be connected to a 25 Hz the supply voltage should be	A. 115 V	B. 65V	A
181	The magnetizing current in a transformer is rich in ____ harmonic	3rd	2nd harmonic	A
182	A 50 Hz transformer having equal hysteresis and eddy current losses at rated excitation is operated at 45 Hz at 90% of its rated voltage. Compared to rated operating point the core losses under tis condition, Reduces by	19.2%	14.5 %.	B
183	A 10 KVA, 400 V / 200 V single-phase transformer with 10% impedance draws a steady short circuit line current of 250 Amp. State whether the given statement is true or false.	A. True	B. False	A
184	The percentage resistance and the percentage reactance of a 10 KVA, 400 V/ 200 V, 3 phase transformer are 2% and 10% respectively. If the constant losses in the machine are 1%, the maximum possible percentage efficiency of the transformer is	A. 97.25	B. 98.32	A
185	A 400 V/100 V, 10 KVA two winding transformer is reconnected as an auto transformer across a suitable voltage source. The maximum rating of such an arrangement could be	A. 50 KVA	B. 12.5 KVA	A
186	A 3 phase delta/star transformer is supplied 6000V on delta connected side. The terminal voltage on the secondary side when supplying full load at 0.8 lagging powrr factor is 415 V. The equivalent resistance and reactance drops for the transformer are 1% and 5% respectively. The turns ratio of the transformer is	A. 42	B. 24	B
187	The core flux of a practical transformer with a resistive load. For load changes core flux	Constant	Changes	A
188	In the protection of transformers, harmonic restraint is used to guard against magnetizing inrush current. State whether the given statement is true or false.	A. True	B. False	A
189	A 3- phase transformer has a rating of 20MVA, 220 KV(Star)/33 KV(Delta) with a leakage reactance 12%. The transformer reactance (in ohms) reffered to each phase of the LV delta connected side is	A. 19.6	B. 18.5	A
190	A single phase transformer has a maximum efficiency of 90% at full load and unity power factor. Efficiency at half load, at the same power factor is	A. 88.26%	B. 87.8%	B

qid	question	option1	option2	answer
191	A 500 KVA, 3 phase transformer has iron losses of 300W and full load copper losses of 600W. The percentage load at which the transformer is expected to have maximum efficiency is	A. 70.7%	B. 50%	A
192	In transformers, in an open circuit test, current is drawn at low power factor. State whether the given statement is true or false.	A. True	B. False	A
193	In a transformer, zero voltage regulation at full load is possible at _____ power factor load.	A. Leading	B.Lagging.	A
194	The primary mmf is least affected by the secondary terminal conditions in a power transformer. State whether the given statement is true or false.	A. True	B. False	B
195	A 3 phase, 4 pole, self excited induction generator is feeding power to a load at a frequency f1. If the load is partially removed, the frequency becomes f2. If the speed of the generator is maintained at 1500 rpm in both the cases then	f1 > f2	f2 > f1	B
196	A 4 pole induction motor, supplied by a slightly unbalanced 3 phase 50 Hz source, is rotating at 1400 rpm. The electrical frequency in Hz of the induced negative sequence current in the rotor is	A. 98	B. 48	A
197	The slip on the induction motor normally doesnot depend on _____ component	Speed	Core-loss	B
198	The speed of rotation of stator magnetic field with respect to rotor structure will be _____ in the opposite direction of rotation.	A. 90 rpm	B. 1500 rpm	B
199	A 3 phase squirrel cage induction motor has a strating current of 7 times the full load current and full load slip of 5%. If a starting torque of 0.5 per unit is required then the per unit starting current should be	A. 3.75	B. 3.16	B
200	A 3 phase squirrel cage induction motor has a strating current of 7 times the full load current and full load slip of 5%. If a star-delta starter is used to start the induction motor, the per unit starting torque will be	A. 0.816	B. 1.616	A
qid	**question**	**option1**	**option2**	**answer**
201	The speed of a 4 pole indction motor is controlled by varying the supply frequency while maintaining the ratio of supply voltage to supply frequency (V/f) constant. At rated frequency of 50 Hz and rated voltage of 400V its speed is 1440 rpm. Find the speed at 30 Hz, if the load torque is constant	A. 840 rpm	B. 864 rpm	A
202	A 3 phase cage induction motor is started by direct-on-line (DOL) switching at the rated voltage. If the starting current drawn is 6 times the full load current and the full load slip is 4%, then the ratio of starting developed torque to the full load torque is approximately equal to	A. 1.44	B. 1.84	A
203	Founder of pay-pal	Elon Musk	Vijay Sharma	A

qid	question	option1	option2	answer
204	A 400V, 15KW, 4 pole, 50Hz, Y- connected induction motor has full load slip of 4%. The output torque of the machine at full load is	A. 95.50 Nm	B. 99.47 Nm	B
205	The direction of rotation of 3 phase induction motor is clockwise when it is supplied with 3 phase sinusoidal voltage having phase sequence A-B-C. For counter clock wise rotation of motor, the phase sequence of power supply should be	A. B-C-A	B. A-C-B	B
206	No load test on 3 phase induction motor was conducted at different supply voltages and a plot of input power vs voltage was drawn. This curve was extrapolated to intersect the y-axis. This interection point yields ___ loss	Stray Load	Windage	B
207	Skewing is used iin induction motors in order to reduce torque due to ____ harmonics	Slot	Space	A
208	Unbalanced supply voltage given to a 3 phase, delta-connected induction motor will cause _____ sequence component current	Zero	Negative	B
209	When the supply voltage to an induction motor is reduced by 10%, the maximum torque will decrease by approximately	A. 20%	B. 40%	A
210	Whatsapp founder	Brain Acton	Romain Sambarino	A
211	The following starting method for an induction motor is inferior in view of the poor starting torque per ampere of the line current drawn, method of starting	Series induction	Auto transformer	A
212	A 3 phase, 4 pole squirrel cage induction motor has 36 stator and 28 rotor slots. The umber of phases in the rotor is	A. 7	B. 9	A
213	If a 400V, 50Hz, Star connected, 3 phase squirrel cage induction motor is operated from a 400V, 75Hz supply, the torque that motor can now provide while drawng rated current from the suppy is	A. decreases	B. increases	A
214	A synchronous motor operates at 0.8 pf lagging. If the field current of the motor is continuously increased, The armature current _____ upto a certain value of field current.	Increases	Decreases	B
215	During hunting of synchronous motor,Damper bar develops	Field excitation	Torque	B
216	A synchronous generator connected to an infinite bus is overexcited. Considering only the reactive power, from the point of the system the machine acts as	A capacitor	An inductor	A
217	The armature of a single phase alternator is completely wound with T single turn coils distributed uniformly. The induced voltage in each turn is 2 Volts(rms). The emf of the whole winding is	A. 1.414T volts	B. 1.273 volts	B
218	Higher synchronous reactance is preffered in the present day alternators, because one can have reduced _____ currents	Transient	Harmonic	A

qid	question	option1	option2	answer
219	It is desired to eliminate 5th harmonic voltage from the phase voltage of an alternator. The coils should be short-pitchd by an electrical angle of	A. 36 degree	B. 72 degree	A
220	The phase sequence of a 3 phase alternator will reverse if _____ remains same	Field current	Direction of rotation	A
221	The synchronous speed for the seventh space harmonic mmf wave of a 3 phase, 8 pole, 50 Hz harmonic is _____ in forward direction .	A. 107.14 rpm	B. 5250 rpm	A
222	A stand alone engine driven synchronous generator is feeding a partly inductive load. A capacitor is now connected across the load to completely nullify the inductive current. For this operating condition. The field current has to be	Increased	Reduced	B
223	A 4 pole, 3 phase double layer winding is housed in a 36 slot stator for an ac machine with 60 degree phase spread. Coil span is 7 short pitched. Number of slots in which top and bottom layers belong to different layers is	A. 18	B. 24	B
224	A hydraulic turbine having rated speed of 250 rpm is connected to a synchronous generator. In order to produce power at 50 Hz, the number of poles required in the generator are	A. 16	B. 24	B
225	A 500MW, 3phase star connected synchronous generator has a rated voltage of 21.5KV at 0.85 pf. The line current when operating at a full load rated conditions will be	A. 15.79KV	B. 27.36KV	A
226	The direct axis amd quadrature axis reactances of a salient pole alternator are 1.2pu and 1.0 pu respectively. The armature resistance is negligible. If this alternator is delivering rated KVA at upf and at rated voltage then it's power angle is	A. 45 degree	B. 60 degree	A
227	In a synchronous machine, hunting is predominantly damped by copper losses in the _____	Stator	Rotor	B
228	A field excitation of 20Amp in a certain alternator results in an armature current of 400Amp in short circuit and a terminal voltage of 2000V on open circuit. The magnitude of the internal voltage drop within the machine at a load current of 200Amp is	A. 100V	B. 1000V	B
229	In case of split phase motor, the phase shift between currents in the two windings is around	A. 30 degrees	B. 70 degrees	A
230	Starting torque can be obtained in the case of a single phase induction motor with identical main and auxillary windings by connecting a capacitor in series with the	machine	auxillary winding	B
231	The hysteresis loop of a magnetic msterial has an area of 5 cm with the scales given as 1cm=2AT and 1cm=50mWb. At 50Hz total hysteresis loss is	A. 50W	B. 25W	B
232	For a given stepper motor, the following torque has the highest numerical value.	A. Pull-in torque	B. Pull-out torque	B

qid	question	option1	option2	answer
233	The following motor definitely has a permanent magnet rotor	Stepper	Reluctance	A
234	In stepper motor, the detent torque means _____ of the static torque with the phase winding unexcited.	A. Maximum	B. Minimum	A
235	A 230V, 50Hz, 4 pole, single- phase induction motor is rotating in the clock wise(forward) direction at a speed of 1425rpm. If the rotor resistance at standstill is 7.8 ohms, then the effective rotor resistance in the backward branch of the equivalent circuit will be	A. 2 ohms	B. 4 ohMs	A
236	For a 500Hz frequency excitation, a 50km short power line will be modeled as	Medium line	B. Long line	B
237	The corona loss on a particular system at 50Hz is 1 KW/km per phase. The corona loss at 60Hz would be _____ per phase.	0.83 KW/km	1.13 KW/km	B
238	The concept of an electrically short, medium and long line is primarily based on the _____ of the line.	Physical	Nominal voltage	A
239	For a fully transposed transmission line which sequences are equal	Positive, Negative and zero	Positive and Negative	B
240	Speed of data transmission in 4-G network of telecom is	100 mbps - 1 gbps.	2 mbps.	A
241	Generation of FM signal from PM signal requires	Differentiator	Integrator	B
242	The diode used in AM demodulator is	GaAsP	Varactor	B
243	The frequency range for satellite communication is _____ magnetic field.	1 GHz-30 GHz	10 MHz-30 MHz	A
244	Induction motor operation depends on	Rotating	Stationary	A
245	Find the number of poles required, when the frequency is 50Hz and speed of the motor is 500 rpm?	12	24	A
246	Which of the following machines have highest power factor with respect to magnetizing current? _____ slot type machines.	closed	open	A
247	Which of the following motors is /are widely used? _____ induction motor.	squirrel cage	slip ring	A
248	How many terms are there in 3,9,27,81.....531441?	12	14	A
249	Find a positive number which when increased by 16 is equal to 80 times the reciprocal of the number	20	4	B
250	The average of 21 results is 20. Average of 1st10 of them is 24 that of last 10 is 14. the result of 11'th is :	40	42	B
251	What could be the maximum value of Y in the following equation given that neither of X, Y, Z is zero? 5X8 + 3Y4 + 2Z1 = 1103	7	8	A
252	On dividing 201098 by a certain number, the quotient is 67 and the remainder is 31. Find the divisor.	3001	3021	A
253	FPGA means _____ Programmable Gate Array	Field	Forward	A
254	Which language could be used for programming an FPGA.	Verilog	ASM	A

qid	question	option1	option2	answer
255	Which one of the following is not a vectored interrupt?	RST 3.	INTR.	A
256	HLT opcode means	END	STORE	A
257	What does S in SIM stand for?	Sorting	Set	B
258	The ROM programmed during manufacturing process itself is called	EPROM	MROM	B
259	In 1 minute, the hour hand covers	0.5	0.35	A
260	The angle between the hands of a clock at 3:20 PM is?	20	35	A
261	Candela is the unit of what?	Luminous flux.	Luminous intensity.	B
262	Solid angle is expressed in terms of	Steredians.	Radians	A
263	HEX code is machine language	FALSE	TRUE	B
264	How many times in a day the two hands of a clock coincide?	22	24	A
265	Find the sum of the series 32, 16, 8, 4, ___ upto infinity.	64	63	A
266	How many classes of insulating materials are there?	7	6	A