Question Booklet and Answer Key For Recruitment Test Held on 22.11.2015 (EVENING)

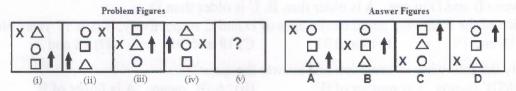
Post: Junior Engineer (Electrical)

1.	ਨਾਵ ਕਿਨ ਪ੍ਰਕਾਰ ਦ	ਹੁਦ ਹਨ?					
	(A) हे	(B) ਪੰਜ	(C) ਸੱਤ	(D) ਅੱਠ			
2.	'ਦੀਵੇ ਥੁੱਲੇ	ਮੁਹਾਵਰਾ ਪੂਰਾ ਕਰੋ:					
	(A) ਪਲੇਟ	(B) ਚਾਨਣ	(C) ਤੇਲ	(D) ਹਨੇਰਾ			
3.	ਸਮਾਸੀ ਸ਼ਬਦ ਲਈ ਕਿ	ਹੜਾ ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹ ਵਰਤਿਅ	ਾ ਜਾਂਦਾ ਹੈ:				
	(A) ਛੁੱਟ ਮਰੋੜੀ	(B) ਜੋੜਨੀ	(C) ਦੋ ਬਿੰਦੀ ਡੈਸ਼	(D) ਪੁੱਠੇ ਕਾਮੇ			
4.	'ਪੁਆਧੀ' ਕਿਸ ਖੇਤਰ ਚ	ਦੀ ਭਾਸ਼ਾ ਹੈ?					
	(A) ਰਾਜਪੁਰਾ	(B) ਜਲੰਧਰ	(C) ਲਾਹੌਰ	(D) ਅਮ੍ਰਿਤਸਰ			
5.	ਸ਼ੁੱਧ ਸ਼ਬਦ−ਜੋੜ ਚੁਣੋ:						
	(A) ਬੌਹਤ	(B) ਬਹੁਤ	(C) ਬਹੂਤ	(D) ਬਹਾਉਤ			
			out your Adepti Car				
Dire		Mark the correct prepo	osition to be filled in	the blanks of the following			
6.	sentences:	reason					
0.	A) of	B) in	C) off	D) with			
7.	She is vain	/	0) 011	2) 11121			
	A) at	B) in	C) of	D) on			
				ar given options:			
8.	A) chaperone	B) cheporane	C) chaparone	D) chaperon			
9.	A) fellacious	B) fallecious	C) fallacious	D) fellecious			
10.	Mark the correct s	entence out of the four of	otions:				
			B) You and he has b	been seen by us.			
	C) You and he is s	een by us.	D) You and he seem	ns to be friends.			
11.	The 2015 Nobel P	rize in Literature was aw	arded to:				
	A) Alice Munro		B) Chinua Achebe				
	C) Doris Lessing		D) Svetlana Alexiev	vich			
12.	Cabinet Minister f	or Minority Affairs, Gov	t. of India is :				
	A) Najma Heptulla		B) Mukhtar Abbas I	Naqvi			
	C) Shahnawaj Hus	ssain	D) Akbar Ahmad				
13.		e of FIFA was recently g					
	A) Sepp Blatter		B) Michel Platini				
	C) Isaac Hayatou		D) Chung Mong-Joo	on			
14.		-	Revolution in India a	nd founder of India's dairy			
	company Amul is:			D) G 1 W .			
	A) Ashok Kumar	B) Verghese Kurien	C) Antony Kurien	D) Samuel Kurien			
15.	Rajatarangini was		C) 11 11	70\ 4 1 11			
	A) Mammata	B) Rajshekhar	C) Kalhana	D) Anandavardhana			
16.	"USTTAD" stands		11.1	D. I			
		Skills and Training in Tra					
		Skills and Training in Tra Short Training in Traditio		-			
		Services and Teaching in		_			
17.		eful nation as per the Glo					
	A) Afghanistan		C) Syria	D) Israel			

10.	A) 26 April B) 30 April	~ .	D) 30 September
19.	Which of the following States became statement released on Feb 10, 2014:- A) Andhra Pradesh B) Kerala		of India as per an official D) Gujarat
20.	Which of the following languages became A) Odia B) Malayalam	e the sixth classical lang C) Bangla	guage of India:- D) Telugu
21.	In April 1, 2014, India became the only c A) legislated population – control policy B) legislated provision of the Knowledge C) legislated corporate social responsibility D) legislated corporate pollution control p	– Commission	h:-
22.	The number of global goals that comprise recently by the United Nations is:- A) 12 B) 13	e the Sustainable Devel C) 14	opment Goals as established D) 17
23.	First Asian Woman to cross English Char A) Arati Saha B) Lakshmi Kanan	nnel in 1959 (from Fran	V.(A
24.	The Chief Executive Officer of Google Ir A) Rajesh Pichai C) Sunderarajan Pichai	nc. is:- B) Satya Nadella D) Suresh Pichai	co con terpermun
25.	"On Liberty" is written by:- A) J.S. Mill B) Henry Miller	C) J.M. Keynes	D) J. Bentham
26.	Norman Ernest Borlaug is known for his A) the field of nuclear medicine C) what is known as Green Revolution	B) the field of cardi	
27.	According to the Rangarajan Committee been fixed to measure the rural as well as A) Rs. 32 per capita per day expenditure B) Rs.45 per capita per day expenditure areas C) Rs.42 per capita per day expenditure in D) Rs.38 per capita per day expenditure in	urban poverty in India in rural areas and Rs.47 in urban areas and Rs.2 n rural areas and Rs.53	for the year 2011 -12:- in urban areas 5 per capita per day in rural in urban areas.
28.	National Policy on Education 1986 was re A) 1999 B) 2001	evised in the year : C) 1992	D) 1998
29.	Which of the following is not a Rabi crop A) Rice B) Wheat	c) Gram	D) Mustard
30.	The doctrine of Panch Sheel was jointly Minister J.L.Nehru and the late Chinese F A) 1960 B) 1959		
31.	Internet was invented by : A) Tim Burners-Lee B) C.S.Cockerell	C) C.C.Magee	D) J.Schick
32.	Aga Khan Cup is associated with: A) Cricket B) Polo	C) Golf	D) Hockey
33.	The words "Satyameva Jayate" inscribed A) Isha Upanishada C) Kena Upanishada	on the State emblem of B) Mundaka Upanis D) Chhandogya Upa	shada

34.	The Flag Code of India took effect from A) 26 January 1949 C) 26 January 2002	B) 26 January D) 26 January		
35.	The National song "Vande Mataram" A) Ananda Math B) Rajasimha	is a part of Bankim Ch C) Kapal Kundala		
36.	Three dice with their upper faces eras	eed are		
	Dice I Dice II	Dice III		
	The sum of the numbers of dots on the number of dots on their bottom faces faces? A) 7 B) 9			
37.	Two positions of a dice are shown be	Some Dide to the Later	The district of many states and	n th
	number of dots on the top is:			
	0 J.M. Keynes DI J. Bentham	(ii)		
	A) 2 B) 3	C) 4	D) 6	
38.	Which one of the following words do (i) KICK (ii) HIKE A) (v) B) (i)	es not have water-imag (iii) CHICK (iv) DO C) (iii)		
39.	Find the Fig from Answer Figures the the Problem Figures:	at does not show the sin	milar characteristics as show	n b
	Problem Figures	Answer Figu		
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	X O O X O X O X O X O X O X X	O O X	
40.	A) 5 B) 4 Find the number of triangles in the Fi	0) =	D) 1	
			(A) Tim Burner of A	
	A) 22 B) 24	C) 28	D) None of these	

Find the Figure from the Answer Figures that will continue the series established by four problem figures.

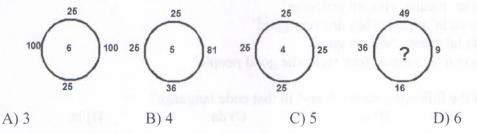


42. Choose the best alternative:

Danger always involves

- A) Enemy
- B) Attack
- C) Fear
- D) Help

43. Find the missing number:



Which of the following meanings of the arithmetical signs will yield the value zero for 44. expression given below:

 $200 \times 100 + 300 \times 200 - 10 \div 2 + 40$

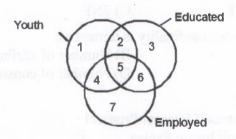
- A) + means -, means x, x means \div , \div means +
- B) + means -, means \div , x means +, \div means x
- C) + means x, means -, x means \div , \div means +
- D) + means \div , means +, x means -, \div means x
- Study the following arrangement and answer the questions: 45.

W1R%4JE#7MT2I9BH3A\$9FQ5DG6USP

Four of the following five are alike in certain way on the basis of above arrangement and hence form a group. Which one does not belong to that group.

- (i) RW4 (ii) 5FG
- (iii) 9QA
- (v) 7ET

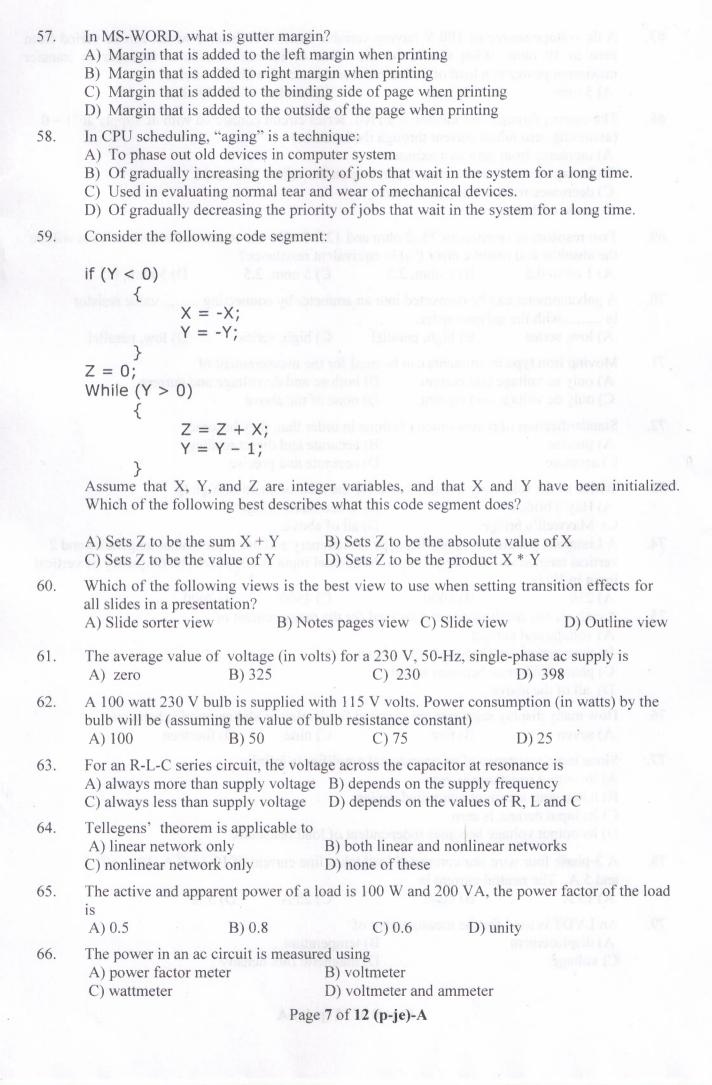
- A) (iii)
- B) (ii)
- D) (i)
- On the basis of following Venn Diagram, answer the question



Which region represents youth who are employed but not educated.

- A) 5,6
- B) 1.4.7
- C)4.7
- D) 4 only
- The post office is to the east of the school while my house is to the south of the school. The 47. market is to the north of the post office. If the distance of market from the post office is equal to the distance of my house from the school, in which direction is the market with respect to my school?
 - A) North
- B) East
- C) North-East
- D) South-West

48.	A, B, C, D, E and F are cousins. No two cousins are of the same age, but all have birthdays on the same date. The youngest is 17 years old and the oldest is 22. F is somewhere between B and D in age. A is older than B, C is older than D. Which of the following could be the ages of D and C respectively, if B is 17 years old? A) 18 and 19 B) 19 and 21 C) 18 and 20 D) 18 and 21
49.	Study the following information and answer the question: (i) 'A\$B' means 'A is mother of B' (ii) 'A#B' means 'A is father of B' (iii) 'A@B' means 'A is husband of B' (iv) 'A%B' means 'A is daughter of B' Which one of the following expressions indicates 'H is the brother of N' A) H#R\$D\$N B) N%F@D\$H#R C) N%F@D\$H D) N%F@D%H
50.	In a certain code language: (i) 'pit na sa' means 'you are welcome' (ii) 'na ho pa la' means 'they are very good' (iii) 'ka da la' means 'who is good' (iv) 'od ho pit la' means 'they welcome good people'
	Which of the following means 'very' in that code language? A) pa B) na C) da D) la
51.	 Which of the following is true? A) There is one to one correspondence between assembly language instructions and machine language instructions and a one to many correspondences between high-level language instructions and machine language instructions. B) There is one to one correspondence between assembly language instructions and machine language instructions and a one to one correspondence between high-level language instructions and machine language instructions and machine language instructions and a one to one correspondence between high-level language instructions and machine language instructions. D) There is many to one correspondence between assembly language instructions and machine level instructions, and a many to one correspondence between high-level language instructions and machine level instructions and machine language instructions.
52.	If an attribute of a database table can have multiple values, that table automatically violates which normal form (choose the lowest one): A) 4NF B) 3NF C) 2NF D) 1NF
53.	In the relational database model, cardinality is termed as: A) Number of tuples. B) Number of attributes. C) Number of tables. D) Number of constraints.
54.	What does TCP/IP stand for? A) Transmission Control Protocol/ Internet Protocol B) Transport Capture Protocol/ Inside Packet C) Transmission Control Protocol/ Internet Packet D) Telecommunications Connection Protocol/ Internet Partitions
55.	What does ISP stand for? A) International Service Protocol B) Internal Service Port C) Internet Service Provider D) Internet Search Program
56.	The logic family has the lowest propagation delay and thus comprises the fastest logic circuits available. A) TTL B) ECL C) CMOS D) LSI



67.	A dc voltage source of 100 V having zero to 10 ohm. What should be t maximum power to a load of 5 ohm re A) 5 ohm B) zero	the value of internal resis	stance in order to transfer source?
68.	The current through an inductor in an (assuming zero initial current through A) increases from zero to maximum B) it may increase or decrease depend C) decreases from maximum to zero D) none of these	the inductor) ding on the values of R and	A Credender of Cachedonical Company of Cachedonical Company of Cachedonical Cachedonica Cachedon
69.	Two resistors of resistances 75±2 ohm the absolute and relative error (%) in e A) 1 ohm, 0.5 B) 1 ohm, 2.5		cted in series. What will be D) 5 ohm, 0.5
70.	A galvanometer can be converted into inwith the galvanometer. A) low, series B) high, paralle	12-3	value resistor D) low, parallel
71.	,	used for the measurement of B) both ac and dc voltage as D) none of the above	
72.		one in order that, they become B) accurate and direct readin D) accurate and precise	
73.74.75.		B) Wheatstone bridge D) all of above e is stationary and has 5 hor horizontal input is 1000 Hz C) 2500 D) 20 ed for the measurement of	izontal tangencies and 2 . The frequency of vertical
76.	How many display segments are required A) seven B) five	ired for display of alphanum C) nine D) fo	
77.	Since input resistance of an operational A) its output resistance is zero B) it becomes a current controlled dev C) its input current is zero D) its output voltage becomes independent	vice	
78.	A 3-phase four wire star connected loa and 5 A. The neutral current is A) 15 A B) 10 A	ad takes line current of 10 4 C) 25 A D) 5	
79.		nt of B) temperature D) magnetic flux density	

80.	A transformer can be used for A) ac to dc conversion B) electrical isolation C) power amplification D) all of above
81.	A 1-phase transformer has 200 primary and 100 secondary turns. If its secondary current is 10 A. What will be its primary current?
82.	A) 5 A B) 10 A C) 15 A D) 20 A Which of the following electrical motors runs at constant speed?
02.	A) synchronous B) dc series C) induction D) dc shunt motor
83.	At no load, the speed of dc series motor is high because A) armature voltage is low B) field current is high C) field current is low D) none of the above
84.	Which of the following electrical motors produces high starting torque A) induction B) dc series C) dc shunt D) none of these
85.	For generation of bulk electric power, which of the following generator is used A) ac generator (alternator) B) dc series generator C) dc shunt generator D) induction generator
86.	Which of the following can be used for impedance matching A) capacitive transducer B) rotating machines C) transformer D) none of the above
87.	The maximum value of the torque of an induction motor does not depend on A) supply voltage B) rotor resistance C) rotor leakage inductance D) frequency of supply voltage
88.	Starters are used in electric motors for A) decreasing starting current C) increasing starting torque D) decreasing starting torque
89.	When the connected load is more than the rating of a transformer, another transformer is connected in
90.	For voltage step up, which of the following connection of three phase transformer is generally preferred A) star-delta B) star-star C) delta-delta D) delta-star
91.	A two-winding transformer is converted into an auto-transformer, the rating of the auto-transformer is the rating of the two winding transformer A) less than B) more than C) same as that of D) depends on the load
92.	The percentage voltage regulation and efficiency of an ideal transformer is respectively A) zero and 100 B) 100 and zero C) zero and zero D) 100 and 100
93.	The number of diode(s) used for half wave, and full wave bridge rectifier circuit is/are A) one and two respectively B) one and four respectively C) two and four respectively D) None of the above
94.	In a three-phase delta connected system, the line voltage is the phase voltage A) equal B) 1.732 times C) 0.577 times D) none of these
95.	If z-parameters of a two port network are given, which of the following parameters of the network can be found A) y-parameters only B) ABCD parameters only C) h-parameters only D) all of the above

96.	For a transmission line, if $A = D= 1$, $B = 10$, the value of C parameter is A) 1 B) $1/10$ C) 10 D) zero	
97.	The burden of a current transformer is expressed in terms of A) VA rating of a transformer B) secondary winding current C) primary winding current D) none of these	
98.	 CPU of an 8085 microprocessor consists of A) ALU, accumulator, general and special purpose registers B) ALU, accumulator, timing and control circuits C) accumulator, timing and control unit D) ALU, accumulator, general and special purpose registers, timing and circuits 	ontrol
99.	Transmission efficiency increases as A) both voltage and power factor increase B) voltage decreases power factor increases C) voltage increases and power factor decreases D) both voltage and power factor decrease	
100.	Consumers having low power factor equipment are advised to install A) tap changing transformer B) capacitor bank C) inductors D) none of these	
101.	In a thermal power plant, the feed water coming to the economiser is heated A) H.P. steam C) direct heat in the furnace B) L.P. steam D) flue gases	ed using
102.	Bundled conductors are mainly used in high voltage overhead transmissio A) reduce transmission line losses B) increase mechanical strength of the line C) reduce corona loss D) reduce sag The rated voltage of a 3-phase power system is given as A) rms phase voltage B) peak line to line voltage C) rms line to line voltage D) peak phase voltage	n line to
104.	For a given system, its transfer function depends on A) input only C) initial conditions D) none of the above	
105.	Superposition theorem is applicable to A) any type of electrical network B) only linear network C) only non-linear network D) none of the above	
106.	Which of the following dc motor is suitable for intermittent load? A) Shunt B) Series C) Cumulatively compounded D) Differentially compounded	
107.	Differential protection can be used for the protection of A) transformers only B) bus bars only C) feeders only D) all of above	
108.	The capacity factor of a plant is equal to A) maximum load/average load B) average load/maximum load/maximum load/plant capacity D) average load/plant capacity	
109.	Large size steam plants and nuclear plants are suitable for A) base loads B) peak loads C) both base and peak load plants D) none of above	

110.	In which of the reactorsA) pressurised water reC) liquid metal fuelled	eactor	B) boiling water	reactor	
111.	The main criterion for the A) the voltage drop C) temperature rise	he design of a distrib	butor is B) corona loss D) radio interfe	rence	
112.	Which of the following A) fluorescent tube C) mercury vapour lan	120 Objective T	monochromatic li B) sodium vapo D) none of the	our lamp	
113.	Induction heating is use A) insulating materials B) magnetic materials C) non-magnetic mater D) both magnetic and r	ials (conducting)	acting materials		
114.	In a given magnetic circ of 1 Wb. If the circuit r A) 2 A				uces a flux
115.	Sheaths are used in cable A) provide proper insut C) prevent ingress of m	lation B) pro	ovide mechanical one of the above	strength	
116.		· ·	ninals a-b is B) less than R2		terminals
117.	The fuse in electrical cit. A) live wire C) live and neutral wire	B) ne	in series with utral wire ve or neutral wire		
118.	A) 30^0	90°	C) 60^{0}	120°	
119.	Improper biasing of a tr A) distortion in the out B) faulty location of lo C) excessive heat produ D) heavy loading of en	put signal ad line uction at collector t			
120.	The impulse response of function is A) 1/s E	f a LTI system is a r B) 1/s ²		then the correspond 1	ing transfer

PUDA
Junior Engineer (Electrical)
Answer Key: 22.11.2015 (Evening)

Q.No.	Ans.	Q.No.	Ans.	Q.No.	Ans.	Q.No.	Ans.
1	В	31	A	61	A	91	В
2	D	32	D	62	D	92	A
3	В	33	В	63	D	93	В
4	A	34	С	64	В	94	A
5	В	35	A	65	A	95	D
6	A	36	A	66	С	96	D
7	С	37	В	67	В	97	A
8	A	38	D	68	A	98	D
9	С	39	В	69	С	99	Α
10	A	40	С	70	D	100	В
11	D	41	D	71	В	101	D
12	A	42	C	72	В	102	С
13	С	43	В	73	A	103	C
14	В	44	В	74	С	104	D
15	C	45	A	75	D	105	В
16	В	46	D	76	D	106	С
17	С	47	С	77	С	107	D
18	A	48	В	78	A	108	D
19	С	49	В	79	A	109	Α
20	A	50	A	80	В	110	В
21	C	51	A	81	Α	111	A
22	D	52	D	82	Α	112	В
23	A	53	A	83	В	113	D
24	С	54	A	84	В	114	A
25	A	55	С	85	A	115	В
26	С	56	В	86	С	116	С
27	A	57	С	87	В	117	A
28	С	58	В	88	A	118	С
29	A	59	D	89	В	119	A
30	С	60	A	90	D	120	A