QUESTION BOOKLET AND ANSWER KEY FOR RECRUITMENT TEST OF

Production Manager (Kapurthala Plant) Code-C-13
Production Manager (Khanna Plant) Code-C-16

HELD ON 18 & 19 Feb. 2012

English Version

1.	ਮਲਵਈ ਕੀ ਹੈ	? 		
	(A) ਭਾਸ਼ਾ	(B) ਇਲਾਕਾ	(C) ਉਪ-ਭਾਸ਼ਾ	(D) ਵਿਆਕਰਣ
2.	- ਜੋੜਨ, ਨੂੰ ਕਿਹਾ	ਜਾਂਦਾ ਹੈ:	-) (*** 	ਤ ਤੇ ਹੋਰਨਾਂ ਸ਼ਬਦਾਂ ਨਾਲ ਸੰਬੰਧ
	(A) ਸੰਬੰਧਕ	(B) ਯੋਜਕ	(C) ਕਿਰਿਆ	(D) ਵਿਸ਼ੇਸ਼ਣ
3.	ਯੋਜਕ ਦੇ ਮੁੱਖ	ਭੇਦ ਕਿੰਨੇ ਹੁੰਦੇ ਹਨ ?		
	(A) ਦਸ	(B) ਅੱਠ	(C) ਛੇ ਕਿ ਕਾਰਤ	(D) ਦੋ
4.	ਹੇਠ ਲਿਖਿਆਂ ਵਿ	ਵੱਚੋ ਸ਼ੁੱਧ ਸ਼ਬਦ ਚੁਣੋ :		
	(A) ਕਹਿੜਾ	(B) ਕਿਹੜਾ	(C) ਕੋਹੜਾ	(D) वेझा
5.	ਕਿਹੜਾ ਸ਼ਬਦ ਜੋ	ੜ ਸ਼ੱਧ ਹੈ:		
r w.d		(B) ਸ਼ਸਤਰ	(C) ਛਸਤ੍	(D) ਛਛਤਰ
6.	'ਇਹ ਸਭ ਮੰਨਦੇ	ਹਨ ਕਿ ਪਰਮਾਤਮਾ ਸਰਬ	ਵਿਆਪਕ ਹੈ' । ਕਿਹੜਾ	ਵਾਕ ਹੈ _{TM}
	(A) ਸੰਯੁਕਤ	(B) ਪ੍ਰਸ਼ਨ ਵਾਚ <mark>ਕ</mark>	(C) ਮਿਸ਼ <mark>ਰਤ</mark>	(D <mark>)</mark> ਨਾਂਹਮੁਖੀ
7.	ਵਿਸ਼ੇਸ਼ਣ ਕਿੰਨੀ	ਪ੍ <mark>ਕਾਰ ਦੇ</mark> ਹੁੰਦੇ ਹਨ :		
	(A) ਦ	(B) ਚਾਰ	(C) ਛੇ	(D) ਪੰਜ
8.	ਉਤਮ ਪੂਰਖ ਚੁਣ	en de la companya de		
	(A) ਮੈਂ/ ਅਸੀਂ	(B) ਤੂੰ/ ਤੁਸ਼ੀ	(C) ਉਹ	(D) ਆਹ
9.	ਅਨਿਸਚਿਤ ਪੜ			
	(A) ਕਈ/ਕੁਝ	(B) ਉਹ	(C) ਮੈਂ	(D) ਤੁਸੀਂ ⁻
10.	· · · -	ਹਾਵਰੇ ਦਾ ਕੀ ਅਰਥ ਹੈ		
	(A) ਸਫਾਈ ਕਰ		(B) ਤਬਾਹ ਕਰਨਾ	
Divo	(C) ਝਾੜੂ ਨਾਲ ਖ਼ਿਕਤ (O 11 14	ਮਾਰਨਾ l):- Choose the oppo	(D) ਬੁਹਾਰੀ ਦੇਣੀ wite of the given wer	aging all side transport is
	Deferential:-	i):- Choose the oppo	site of the given wor	(
Q, 11,	(A) gloomy	(B) arrogant	(C) respectfu	d (D) different
Q.12.	Corroborate :			After the section of
O 12	(A) deteriorat	te (B) contradict	(C) accuse	(D) slander
V.13.	Burgeon:- (A) shrink	(B) eclipse	(C) explode	(D) accelerate
Q.14.	Arid:-			
	(A) fertile	(B) silly	(C) equivoca	d (D) dry

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Directions (Q.15-17): In these questions, sentences are given with blanks to be filled in with appropriate and suitable word(s). Four alternatives are given. Choose the correct alternative out of four and select your answer.

0.15	Sachin is satisfied	his performance		
	(A) with (B) \overline{a}			of
Q.16.	. Most of the deprived and dance	d in India lead a misc	erable existence that	has nothing to sing
		vithin (C)	about (D)	under.
O.17.	. Shivanand accused	him murder.		
	(A) with (B) a		of (D)	for.
idion	ctions (Q.18-20) :- In n/ phrase . Choose the rlined idiom/ phrase.	e alternative which b		en for the underlined aning of the
Q. 18	8. He <u>stirred up a hor</u>	net's nest when he a	dvocated the widow-	remarriage.
	(A) thrilled the peo	ple (B) caution	ed the people	
	(C) frightened the p	eople (D) excited	the hostility of a larg	e number of people
Q.19.	. She is <u>working agai</u>			77.4
	(A) feeling dejected	Sanda company agreement company	ng against the times	TM
	(C) wor <mark>king haphaz</mark>	ardly (D) working	g with utmost speed.	
20. I	threatened to show h	im up if he did not n	nend his ways.	
	(A) to disclose his villa			
	(C) to slander him	(D) to humili		
21.	On which date Del	hi was declared capi	tal of India?	
	A) Dec. 10, 1911	B) Dec. 11, 1911	C) Dec. 12, 1911	D) Dec. 13, 1911
22.	What is the norma	l playing time of full	version of our Natio	nal Anthem?
<i>1</i>		B) 52 Seconds		D) 50 Seconds
23.	The decimal curre	ncy system started in	India from	
			C) April 1958	D) April 1960
24.	India's First atomi	c power station was	set up at	
	A) Surat (Gujarat)		B) Trombay (Mah	AGE-LU BERTHELEU (1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	C) Sholapur (Mahar	ashtra)	D) Tarapur (Maha	rashtra)
25.	As a non-member Parliament?	who can participa		gs of either House of
	A) Vice-President	B) Chief Justice	C) Attorney-Gene	ral D) None of these
26.	Partition of Benga	l was undertaken wi	th a view to	
	A) Suppressing the	revolt		
	B) Satisfying the H			
	C) meeting the dem	and of Muslims	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	D) Dividing the H tension	lindus of West and	East Bengal and inc	reasing Hindu-Muslim
	CHOICH			

27.	The Governor-General of India who initiated the introduction of English in India was					
	A) Lord Curzon	B) Lord Macaulay	C) Lord Bentinck	D) Lord Dalhousie		
28.		owing glands secretes to				
	A) Lachrymal	B) Pituitary	C) Thyroid	D) Pancreas		
29.	Flower colours ar	e due to				
	A) Chlorophyll	B) anthocyanins	C) phytochromes	D) melanin		
30.		in Bhopal gas tragedy				
	A) Carbon monoxi	de	B) Methyle isocyna			
	C) Ethyle cynide		D) Phenyl isocynate			
31.	The sky is blue in		make a rafe frequencies.			
	A) refraction	B) reflection	C) diffraction	D) dispersion		
32.	Who among the f	ollowing is associated v	with the invention of	computers?		
	A) Edison	B) Babbage C)	MacMillan	D) Rangabhashyam		
33.	The ancient book	that deals with paedia	trics is			
	A) Kasyapa Samhi		B) Atharveda			
	C) Charaka Samhi	ta	D) Susruta Samhita	TM		
34.	Laser is an acron	y <mark>m fo</mark> r Lig <mark>ht</mark> Amplifica	ation by			
	A) stimulated emis	<mark>ssion</mark> of Ra <mark>di</mark> o Waves	B) stimulated emiss	ion of Radiation		
	C) spontaneous er	nission of Radio Waves	D) spontaneous emi	ssion of Radiation		
35.	'A Half Nelson' is	the term associated w	ith which of the follo	wing sports?		
	A) Wrestling	B) Bridge	C) Golf	D) Polo		
36.	Who was the first	Chairman of SAARC	?			
	A) Mr. Ziaur Rehn	nan Ranga Akada da	B) Lt. Gen I			
	C) King Birendra		D) Mrs. Ind	ira Gandhi		
37.	Why did Pakistar	n leave Common Wealt	th in 1971?			
		interference in Afghanis				
	C) due to recognition of Bangladesh D) none of these					
38.	The difference in	the time per degree lo	ngitude between any	two places on the		
	globe is	en da Lacada (1 en a esta de la composición de l		D) 20 : 4		
	A) 4 minutes	B) 5 minutes	C) 15 minutes	D) 30 minutes		
39.	경기 그는 그는 사람들 아이를 가장 아니는 사람들이 가장 하는 것이 없다. 그렇게 그렇게 되었다.	oximate length of bord				
	A) 2700 kms	B) 3000 kms	C) 3300 kms	D) 3600 kms		
40.	The historic 'Khi	drane dee dhab' is nov	v known as			
	A) Anandpur Sahi	b B) Fatehpur Sahib	C) Mukatsar Sahib 🏻 🗈)) TaranTaran Sahib		
41.	Which of the follo	owing rational number	s has a terminating d	ecimal expansion?		
	A) $\frac{1129}{2^27^5}$	B) $\frac{606}{100}$	C) $\frac{71}{210}$	D) $\frac{5}{512}$		
	2^{275}	105	210	512		

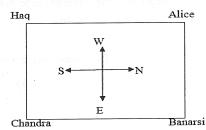
42.	The symbol π , used to A) more than 22/7		he circle, has val C) 22/7	ue D) 3.14
43.	If HCF (306, 657) = 9 A) 59131	, then LCM (306, 6 B) 22338	57) is equal to C) 27545	D) none of these
44.	The zeros of the poly A) $1 - \sqrt{2}$, $2 + \sqrt{2}$, 1 C) $1 - \sqrt{2}$, $1 + \sqrt{2}$, 1	Sautava (1905)	$x^{2} + x + 1$ are B) $2 - \sqrt{2}$, 2 - D) $-\sqrt{2}$, $\sqrt{2}$,	
45.	The lines $2x + 3y - 9$ A)Unique solution			olution D)Infinite solution
46.	unique solution are	thich the equations 5 C) any value		and $2x + 2y + 2 = 0$ have D) no such value exist
47.	then other two sides	are		the hypotenuse is 13 cm D) none of these
48.	Which of the following A) -1, 3, -5, 7, C) -2, 2, -2, 2, -2,	Balle	B) $\sqrt{2}$, $\sqrt{8}$, $\sqrt{10}$ D) 1, 1, 2, 2, 3,	$\overline{8}, \sqrt{32}, \ldots$
49.	How many two-digit A) 66	numbers are divisi B) 65	ble by 3? C) 60	D) none of these
50.	The Sup. $\{\sin x + \cos x\}$	s x} is equal to. B) 1	C) 2	$D)\frac{1}{\sqrt{2}}$
51.	Name a single letter words form entirely existing letter as its N i) Basic ii) Blac A) W/C	new words. Exp Numerator and the	ress the answer required letter a	r letter in the following as a fraction with the s its Denominator v) Stick D)A/N
52.	RESCUE is coded as 623421572 stand for A) PROSECUTE		coded as 657, th	

53. Miss Alice, Mr. Banarsi, Miss Chandra and Mr. Huq are standing at the four corners of a square field given below. If Alice and Chandra exchange their places, Banarsi and Huq exchange their positions. After that they move along the sides in the clockwise direction and each other half the side. Which of the

following statements is correct?

A) Alice is to the North-West of Banarsi

- B) Banarsi is to the North-West of Chandra
- C) Chandra is to the North of Alice
- D) Alice is to the North of Chandra



36 vehicles are parked in a parking lot in a single row. After the first car, there is 54. one scooter. After the second car there are two scooters. After third car, there are 3 scooters and so on. Find the number of scooters in the second half of row.

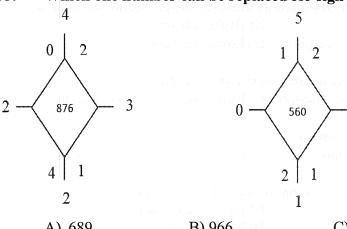
A) 10

B) 12

D) 17

3

Which one number can be replaced for sign of interrogation? 55.



3

3

A) 689

B) 966

C) 869

D) 968

56. Find the odd one

A) day

B) fortnight

C) calendar

D) month

Pointing to a photograph, a woman says, "This man's son's sister is my mother-57. in-law'. How is the woman's husband related to the man in the photograph?

A) grandson

B) son

C) son-in-law

D) nephew

- Study the following information to answer the question below 58.
- i) A, B, C, D, E, F and G are playing cards sitting around a circular table
- ii) D is not neighbour of C or E
- iii) A is neighbour B and C
- iv) G who is second to the left of D, is the neighbour of E and F

Which of the following statements is wrong

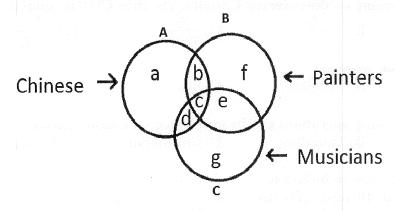
A) A is to the immediate right of B

B) B is to the immediate left of D

C) F is between G and D

D) E is between G and C

59. In the following figure, three intersecting circles represent certain section of people. Different regions are marked from 'a' to 'g'



Find Chinese who are painters as well as musicians

A) a

B) b

C) c

D) d

60.	Ram is 15 th from the front in a column of boys. There were thrice as many behind him as there were in front. How many boys are there between Ram and the 7 th boy from the end of the column						
	A) 33	B) 34	C) 35	D) none of these			
61.		nes are usually designe	d as multi-cylinder	engine because of			
			B) Higher efficier D) Lower fuel con				
	C) Better balance	uniform torque output	D) Lower fuel col	isumption			
62.	Which of the foll	owing processes is not	associated with dies	el cycle			
		ne B) Constant pressur		D) Adiabatic			
63.	In hydraulic syst	em, the power used is	·				
	A) Mechanical	B) Hydrostatic	C) Electrical	D) Frictional			
64.	In I.C. engines, t	he power developed in	side the cylinder is c	ealled			
			B) Indicated horse				
	C) Pumping power	r see see see see see see see see see se	D) None of these				
65.	Which type of m	aintenance is most exp	ensive				
			B) Preventive ma	intenance			
behind him as the the 7th boy from A) 33 61. Automobile engin A) Economy rease C) Better balance. 62. Which of the foll A) Constant volun. 63. In hydraulic syst A) Mechanical 64. In I.C. engines, the A) Break horse por C) Pumping power. 65. Which type of man A) Routine mainton C) Breakdown man A) Routine mainton C) Breakdown man B) One ton refrige C) One ton of war D) One ton of in equivalent to be considered as the constant of the C) To increase the C) Increase flue of	nintenance	D) Planned maint	enance				
00.	-	B) Brayton cycle	C) Ericsson cycle	D) Otto cycle			
	Dieser eyere	B) Bruj tom G) 010		- J			
67.		erating machine means					
		A) One ton is the total weight of machine					
	C) One ton of war	ter can be converted into	0 1Ce	nofricaration offset is			
		3000 Kcal/hour.	C III 24 Hours, the	, refrigeration effect is			
60	TDI C 4° CI						
68.			D) To lower down	n the head pressure			
			D) To avoid short	그 가장 그 말을 하고 있는 것 같습니다.			
	C) 10 increase in	e remgerating errect	D) To avoid short	Cycling			
69.				ratures encountered in			
		rating on the reversed		COP is equal to			
	A) $\frac{I_1 - I_2}{T_1}$	B) $\frac{T_1 - T_2}{T_2}$	C) $\frac{T_2}{T_1-T_2}$	D) $\frac{T_1}{T_1 - T_2}$			
70	*1	- 2	-1 -Z	-1 -2			
70.	•	B) Tungsten	C) Steel	D) Tin			
	A) Copper	D) Tuligateli	Cysteci	D) Im			
71.	Which of the fol	lowing operations can l	be performed on a la	athe machine			
		B) Threading	C) Chamfering	D)All of the above			
72	The economizer	is used in boilers to					
14.		B) Economize on	fuel				
				D) To heat feed water by bled steam			
73.	Rotary compressors are suitable for						
		ge at high pressure	B) Low discharge	e at high pressure			
	<i>′</i>		D) There is no su				

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84.

85.

A) PV = constant B) $PV^{\gamma} = constant$

C) PVⁿ=constant D)None of these

A partial molar property (\overline{J}) in defined as 86.

A) $\left(\frac{\partial J}{\partial n_i}\right)$ V,P,n_j B) $\left(\frac{\partial J}{\partial n_i}\right)$ T,P,n_j C) $\left(\frac{\partial J}{\partial n_i}\right)$ T,n_jD) $\left(\frac{\partial J}{\partial n_i}\right)$ V,n_j

A closed loop system is stable when the gain margin is 87.

A) > 1

74.

75.

76.

77.

78.

79.

80.

81.

82.

83.

B) < 1

C) = 1

D) = zero

88.	When the dampin A) Overdamped	g coefficient is unity B) Critically damp			D) Highly fluctu	ating
89.	$\mathbf{C_2} = \mathbf{C_1} \left(\mathbf{S_2} / \mathbf{S_1} \right)^n$	of a project is relate where C_2 is capital y S_1 . For rough est B) 0.4	cost with c imate of ca	apacity Spital cost,	S_2 and C_1 is ca	is
90.	Heat transfer coeff A) $\alpha V^{0.67}$	ficient in convective B) α 1/V	heat transfer $C) \alpha V^0$	r outside a .8	tube D) $\alpha 1/V^{0.8}$	
91.	The equation of a	q line for a vapour fo	ed at it's de	w point is		
,		$y=x-x_f$ C)			None of thes	e
92.	In turbulent flow	regime fanning fricti				
	A) 16/Re	B) 32/Re	C) 64/Re]	D) None of the a	bove
93.	B) A constant capa C) A constant capa D) A variable capa	sure, variable capacity city, variable pressure city, constant pressure city, variable pressure	machine machine	egierone silvet Eli La somegae en	TM	
94.	$A \xrightarrow{k} B$, in ba	for second order, atch mode is given by $B) \frac{kC_{Ao}t}{1+kC_{Ao}t}$		- 5 -		
95.	L/ _{mG} ratio used in	n absorption colum	ns for econ	omical op	eration is:	
	A) 1.0 to 1.5 times				he minimum	
	C) 3.0 to 4.0 times	the minimum	D) 1.25 to	o 2.0 times	the minimum	
96.	Pore diffusion resi	istance in a catalyst i	s considered	negligible	if. Thile modul	us is
<i>y</i> 0.	A) > 1	B) < 1	C) < 0.5		D) > 0.5	
0=				Jac (1946-70)		
97.	A) Plug flow mode	packed bed can be a		ı l flow mod	ما الم	
	C) Dispersion mode		그는 일반 - 오늘 말이 되는 것은 말이 되어 나가면 살아야 한다.	-in-series 1		
98.	The aerosols impo A) 0.01 μm to 100	rtant in air pollution µm		: m to 1000	μm	
	C) 0.001 µm to 0.0		D) < 0.00)1 μm		
99.		container the minim	um surface a	rea to end	close a given vo	lume
		ength to diameter ra	tio is:			
	A) 1.0	B) 1.5	C) 2.0		D) 3.0	
100.	Phase rule is defin	ed as many emission amazasi maks				
	A) $P + F = C + 2$		B) P – F	=C-2		. "
	C) $P + F = C - 2$		D) P – F	= C + 2		

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