QUESTION BOOKLET AND ANSWER KEY
FOR RECRUITMENT TEST OF
Statistical Analyst

Code 9.5

HELD ON 9.12.2011

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1.	'ਸੋਹਲੇ ਗਾਉਂਣਾ' ਮੁਹਾਵਰ (A) ਉੱਚੀ ਬੋਲਣਾ (B)	ਵਰੇ ਦਾ ਅਰਥ ਹੈ :) ਸਿਫ਼ਤਾ ਕਰਨੀਆਂ (C) ਨਿੰਦਿਆ ਕਰਨੀ (D) ਖੁਸ਼ੀ ਦੇ ਗੀਤ ਗਾਉਂਣੇ					
2.	'ਵਿਸਮਿਕ' ਵਾਕ ਹੁੰਦੇ ਹਰ (A) ਜਿਹੜੇ ਉਦਾਸੀ, ਖੁਸ਼ (B) ਜਿਹੜੇ ਉਦਾਸੀ, ਖੁਸ਼ (C) ਜਿਹੜੇ ਕੇਵਲ ਖੁਸ਼ੀ ਹ (D) ਜਿਹੜੇ ਕੇਵਲ ਉਦਾਸ	ੀ ਦੇ ਭਾਵਾਂ ਨੂੰ ਪ੍ਗਟ ਕਰ ੀ, ਗਮੀ, ਹੈਰਾਨੀ ਅਤੇ ਚਿੰ ਦਾ ਸੰਕੇਤ ਕਰਨ	ਤਾ ਦੇ ਭਾਵ ਪ੍ਗਟ ਕਰਨ				
3.	ਪੰਜਾਬੀ ਧੁਨੀਆਂ ਨੂੰ ਕਿੰਨੇ (A) ਤਿੰਨ	ਪ੍ਕਾਰ ਨਾਲ ਵੰਡਿਆ ਜ (B) ਚਾਰ	ਜਾਂਦਾ ਹੈ : (C) ਦੋ	(D) ਪੰਜ			
4.	'ਪੁਆਧੀ' ਕੀ ਹੈ ? (A) ਭਾਸ਼ਾ	(B) ਖੇਤਰ	(C) ਵਿਆਕਰਨ	(D) ਉਪ-ਭਾਸ਼ਾ			
5.	ਪੰਜਾਬੀ ਵਿਆਕਰਨ ਅਨੁ (A) ਯੋਜਕ	ਸਾਰ 'ਕਿਉਂਕਿ' ਸ਼ਬਦ ਰ (B) ਸੰਬੰਧਕ	ਸੀ ਹੈ ? (C) ਧਾਤੂ	(D) ਪੜਨਾਂਵ			
Choo	tions Q.No. 6-8:- se the correct synonys	n of the given word	out of the four choices	S			
6.	Grudge A) Grievance	B) Greed	C) Gratitude	D) Gravity			
7.	Impervious A) Relevant	B) Invulnerable to C) Impertinent		D) Permeable			
8.	Imperious A) Unaffected	B) Unhealthy	C) Commanding	D) Weak			
Choo	tions Q.No. 9-10:- se the correct opposit	e of the given word (out of the four choices	:			
9.	Impugn A) Reject	B) Select	C) Indict	D) Support			
10.	Impunity A) Responsibility	B) Support	C) Correctness	D) Impudence			
11.	Which part of the A Emblem of India?	shoka's pillar at Sa	rnath has been taken	for National			
	A) central portion	B) bottom portion	C) capital to have acquired	D) complete pillar nuclear powered			
12.	India became submarines. A) sixth	B) fifth	C) fourth	D) third			
13.	Match the following 1. FDI 2. Venture capital 3. Disinvestment 4. Capital Accour A) 1d, 2b, 3a, 4c		a. N.K. Singh b. Chandra She c. Tarapore d. G.V. Rama I C) 1d, 2c, 3a, 4b	Krishna			

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14.	While determining literacy rate, the age taken into account is A) + 1 years B) + 5 years C) + 6 years D) + 7 years
15.	Which of the following states is on the south-west of Punjab? A) Haryana B) Rajasthan C) Himachal Pradesh D) J and
16.	 Which one of the following statements is correct about Punjab? A) Punjab has 85% of its area under cultivation and 2.6% of cropped area of whole country B) Punjab has 51% of its area under cultivation and 2.6% of cropped area of whole country C) Punjab has 70% of its area under cultivation and 1.6% of cropped area of whole country
	D) Punjab has 85% of its area under cultivation and 1.6% of cropped area of whole country
17.	Which three of the following rivers do not flow through Punjab? A) Satluj, Chenab, Jhelum B) Chenab, Jhelum, Ravi C) Beas, Ravi, Jhelum D) Chenab, Ravi, Satluj
18.	An ad-valorem duty is tax basis of A) price of commodity B) value added C) Unit of commodity D) advertisement expenses
19.	Which of the following does not have a common boundary with Bangladesh? A) Meghalaya B) Mizoram C) Tripura D) Arunachal Pradesh
20.	The first nuclear reactor of India is named A) Urvashi B) Apsara C) Kamini D) Rohini
21.	D. Udaya Kumar who designed symbol for Indian Rupee is A) IIT post-graduate B) IIT drop out C) Diploma holder in designing from polytechnic D) MBA
22.	First Woman to climb Mount Everest is A) Santosh Yadav B) Dina Vakel C) Bachchendri Pal D) Anna Chand
23.	How many members can the President of India nominate to Rajya Sabha? A) 2 B) 10 C) 12 D) 8
24.	After retirement a judge can undertake private practice of law A) in the same court B) only in a lower court C) where ever he/she wished D) in another court of the same level or higher co
25.	Who was Indian leader who opposed organisation of Indian National Congress in 1885 along with Raja Shiva Prasad of Benaras? A) Sayyid Ahmed Khan B) Badrudin Tyabji C) Nawab Abdul Latif D) Mohammad Ali Jinnah
26.	The doctrine of Swadeshi was first preached and to A) In 1866; save Indian economy B) In 1866; generate feeling of patriotism C) In 1870; protect Indian industries against slaught of British Manufacturers D) In 1876; create feeling of Indianization

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27. In which city did representatives from the countries of the world meet and create the first international agreement on global warming?

A) Rio de Janeiro, Brazil

B) Paris, France

C) Kyoto, Japan

D) Kuala Lampur, Malaysia

28. Match the following:

1. Malaria

a. Bone Marrow

Π

2. Filaria

b. Brain

3. Encephalitis

c. Blood Cell

4. Leukemia

d. Lymph node

A) 1c, 2d, 3b, 4a

B) 1c, 2d, 3a, 4b

C) 1c, 2b, 3d, 4a

D) 1a, 2b, 3c, 4d

29. The Earth is third planet from the Sun and is located between

A) Venus and Mars

B) Mars and Jupiter

C) Venus and Jupiter

D) Mercury and Venus

30. 'Boston Tea Party' is associated with the

A) French Revolution

B) Russian Revolution

C) American Independence

D) Independence of Egypt

31. On the basis of following statement, which assumptions are implicit.

Statement: "I want to present a book on techniques of yoga to Ajay on his

birthday," said A.

Assumptions: i) A will be invited by Ajay on his birthday

ii) The person to whom the book is to be presented, is not keeping good health

iii) Book is an acceptable gift for birthday

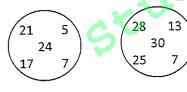
A) all are implicit

B) only i and ii are implicit

C) only ii and iii are implicit

D) only i and iii are implicit

32. Which number in the third set will replace the question mark



16 2 ? 10 8

A) 24

B) 30

C) 36

D) 40

33. In a group of persons travelling in a bus, 6 persons can speak French, 15 can speak Spanish and 6 can speak English. In that group none can speak any other language. If 2 persons in the group can speak two languages and one person can speak all the three languages, then how many persons are there in the group

A) 21

B) 22

C) 23

D) 24

Directions: on the basis of following informations, find the correct conclusions in Q. No. 34-35.

'X \$ Y' means 'X' is not greater than 'Y'

'X # Y'means 'X' is neither greater than nor smaller than 'Y'

'X %Y' means 'X' is not smaller than 'Y'

'X * Y' means 'X' is neither smaller than nor equal to 'Y'

'X@Y' means 'X' is neither greater than nor equal to 'Y'

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34. Statements: D \$ K, H * B, K @ H

Conclusions: IB % K

II B @K

III H * D

A) Only I and II are true

- B) only I and III are true
- C) all I, II and III are true
- D) none of these is true

35. Statements: F # M, M * J, P % F

Conclusions: IP*J

- IIP%J IIIP#M
- A) only I is true

B) only I and II are true

C) only I and III are true

D) one of these is true

36. A monkey climbs 30 feet at the beginning of each hour and rests for a while when he slips back 20 feet before he again starts climbing at the beginning of next hour. If he begins his ascent at 8 a.m., at what time will he first touch flat at 120 feet high from the ground.

- A) 4 p.m.
- B) 5 p.m.
- C) 6 p.m.
- D) none of these

37. In a row of 40 boys, Satish was shifted 10 places to the right of Rohan and Kewal was shifted 10 places to the left of Vilas. If Vilas was 26th from left and there were three boys between Kewal and Satish after shifting, what was the position of Rohan in the row?

- A) 10th from the right end
- B) 10th from the left end
- C) 39th from the right end
- D) data inadequate

Directions: On the basis of following digit-letter-symbol sequence, answer Q.Nos. 38-39. R * T J L 2 \$ D = M # 8 C % B < K 1 + A W ? P E \div Q @ 7 F 6

38. Which of the following is 6th to the left of 18th element from the left end?

- A) %
- B) C
- C) 1
- D) 8

39. If the first fifteen elements in the above sequence are written in reverse order, then which of the following will be 21st from the right end?

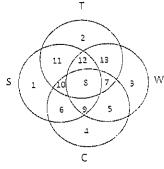
- A) 2
- B) \$
- C) =
- D) L

40. If you pick up from English alphabets, the 6th and 14th letters from right end and then pick up 5th and 20th letters from the left end and form a meaningful word. What is the 1st letter of that word?

A) E

- B) M
- C) no word can be formed
- D) more than one word can be formed

Study the following diagram and answer Q.Nos. 41-43



- i) Circle S stands for households having scooter
- ii) Circle T stands for households having a TV set
- iii) Circle W stands for households having a washing machine
- iv) circle C stands for households having a Car

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41.	represented by the region A) 4 B) 7	C) 11	D)12
42.	Households having T.V. Set but by the region	t neither scooter nor washing	g machine are given
	A) 2 B) 11	C) 12	D) 13
43.	Household having a car, was represented by the region	hing machine, TV set but	not a scooter are
	A) 8 B) 9	C) 7	D) none of these
44.	A person starts from a point A a travels thrice that distance to rethe distance he covered between shortest distance between the start A) $\sqrt{306}$ Km B) 15 Km	each C. He again turns left a en A and B and reaches his	and travels five times destination D. The
	, , , , , , , , , , , , , , , , , , ,	,	,
On th	se basis of following informations, Six persons A, B, C, D, E and uncle were in the group. There points than her husband. D got the lowest points. Father of A game?	F were playing a game. A's were two women. B, the momore points than E but less t	other of A, got more han F. Niece of E got
45.	Who won the game? A) A B) B	C) D	D) F
46.	Who is husband of B? A) C B) D	15 C) E	D) F
47.	If 'A \$ B' means 'A' is brother means 'A' is daughter of 'B' at of the following expressions ind A) H @ J \$ L # P θ K	nd 'A $ heta$ B' means 'A' is fath icates the relationship 'K' is B) H @ J $\$$ P $ heta$ L \sharp	er of 'B', then which father-in-law of H? # K
	C) H @ P \$ J θ L # K	D) H @ J \$ L # K (
48.	Rewrite the word VOCALIST in the reverse order and then n 8, 0 by 1, L by 3, T by 2, V by 5	ext four letters in the revers	ing its first four letter e by substituting I by D) 92156783
	A) 96152783 B) 921568	, , , , , , , , , , , , , , , , , , , ,	2,,2.00,00
49.	Find the odd number out (i) 15 (ii) 63 (iii) A) (i) B) (v)	(iv) 195 (v) C) (iii)	257 D) (iv)
50.	Complete the following series 2 3 B – 6 –FG-5D - 8 - H I		
	A) C, 7, 4, E, 9 B) D, 8, 6,	C, 7 C) E, 8, 7, 8, 9	D) W, 8, 7, I, L

51.	A bus maintains as maintains an avera average speed of the	ge speed of 90 km/b	60 km/hr while going r while coming back	g from P to Q and c from Q to P. The
	A) 75 km/hr	B) 72 km/hr	C)70 km/hr	D) 30 km/hr
52.	A bag contains 11 wred ball is double th A) 18	white balls and some at of a white ball, the B) 20	red balls. If the proben the number of red C) 22	ability of drawing a balls in the bag are D) 24
53.		bution, the mean is	and variance is 6. T	he value of n and p ,
	respectively are A) 27; ¹ / ₃	B) 81; ¹ / ₉	C) 36; ¼	D) 18; ½
54.			standard normal v	ariables. Then the
	distribution of the XA) Standard Normal		C) Cauchy	D) Uniform
55.	X_3) = Corr(X_2 , X_3)	$\rho(z) = \rho(z)$. The	iables such that Cornen, the square of n	$C(X_1, X_2) = Corr(X_1,$ multiple correlation
	coefficient, $R_{1(23)}^2$ is	S		
	A) $\frac{\rho^2}{1+\rho}$	$B) \frac{1+2\rho^2}{1+\rho}$	C) $\frac{2\rho^2}{1+\rho^2}$	$D) \frac{2\rho^2}{1+\rho}$
56.	Let X be a standard A) Normal	l Normal random va B) Gamma	riable, then the distri C) Poisson	bution of $X^2/2$ is D) Beta of 1^{st} kind
57.	Let X be a randon	ı variable having Uı	niform distribution o	ver (0,1). Then, the
	distribution of -2 lo A) Chi-square		C) F distribution	D) t distribution
58.			on random variables	=
	and λ_2 , respectively	ly. Then the condition	nal distribution of ${f X}$ g	given X+Y is
59.	A) Binomial Let X be a conti	B) Poisson) Negative Binomial able with probabili	D) Hypergeometric ty density function,
		≤ 0 . If 'b' is a	number satisfying	
			C) $-7 b^3 / (b^3 + 8)$	D) $-8b^3/9$
60.	In a trivariate dist and $Corr(X_2, X_3) =$	ribution it is found t 0.5. Then, partial co	hat $Corr(X_1, X_2) = 0$, rrelation coefficient,	.8, $Corr(X_1, X_3) = 0.6$ $r_{13.2}$ is
	A) 0.910	B) 0.385	C) 0.526	D) 0.739
61.	Let X be a continuous $P\{ X-2 \ge 6\}$ is	nuous random varia	ble with mean 2 an	d variance 9. Then
	A) Bounded above C) Bounded above b		B) Bounded below D) Bounded below	
		•		

- 62. Let X_1 , X_2 and X_3 are independent and identically distributed random variables having Geometric distribution. Then the distribution of their sum is A) Uniform B) Poisson C) Negative Binomial D) Geometric
- 63. Let e_{YX} and r_{YX} denote respectively the correlation ratio and Karl Pearson correlation coefficient between variables Y and X. Then which of the following holds in general
 - A) $e^2 YX \ge r_{YX}^2$ B) $e^2 YX \approx r_{YX}^2$ C) $e^2 YX = r_{YX}^2$ D) $e^2 YX \le r_{YX}^2$
- 64. Let a random variable X has F-distribution with degrees of freedom n_1 and n_2 . Then, distribution of the random variable 1/X is
 - A) F-distribution with degrees of freedom n2 and n1
 - B) F-distribution with degrees of freedom 1/n₁ and 1/n₂
 - C) Gamma distribution with parameters n₁ and n₂
 - D) Gamma distribution with parameters 1/n₁ and 1/n₂
- 65. Let X be a standard Normal random variable and Y is a Chi-square random variable with 3 degrees of freedom. Assuming that random variables X and Y are independently distributed, then distribution of $X/\sqrt{Y/3}$ is
 - A) Chi-square distribution
- B) Cauchy distribution

C) t distribution

- D) Normal distribution
- 66. Let X be a random variable having Normal distribution with mean 2 and variance 9. Then the distribution of $\left(\frac{X-2}{3}\right)^2$ is
 - A) Chi-square distribution
- B) F distribution

C) t distribution

- D) Normal distribution
- 67. In bivariate regression, mean of the predicted values of variable of variable y is
 - A) Different from the mean of observed values of variable y
 - B) Same as the mean of observed values of variable y
 - C) May or not be same as the mean of observed values of variable y
 - D) 0
- 68. Let $Y = \frac{X}{2} + 2$ and $X = \frac{Y}{8} 1$ are regression lines of Y on X, and X on Y, respectively. Then correlation coefficient between X and Y is
 - A) 1/4
- B) $\frac{1}{4}$
- C) $\pm \frac{1}{4}$
- D) ½
- 69. Number of total samples of size n which can be drawn from a population of size N under simple random sampling with replacement is
 - A) n/N
- B) N^n
- C) *n*^N
- D) $\binom{N}{n}$
- 70. A necessary condition for a symmetrical BIBD, assuming the number of treatments as even, is that $(r-\lambda)$ must be
 - A) Perfect Square
- B) Infinite
- C) Positive Integer
- D) Negative Integer

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71.	For Binomial distrib	ution random variab	de(X), n=10 and p=	0.6, then $E(X^2)$ is
	A) 32.4	B) 34.4	C) 36.4	D) 38.4
72.	In 3 ³ design the erro	or degrees of freedom B) 106	with 5 replicates are C) 104	D) 102
73.		neorem which concep	pt of the following is	used to obtain an
	unbiased estimator A) Efficiency	B) Sufficiency	C) Consistency	D) Completeness
74.	A statistical test is sa A) Power + Size > 0	aid to be unbiased if f B) Power + Size < 0	for that test C) Power < Size	D) Power > Size
75.	In a two way analys	is of variance with 4	treatments, 5 blocks	and 3 observations
	A) 38	egrees of freedom are B) 39	C) 40	D) 41
76.	Stratification is carr A) the population is C) budget is limited	ried out when too large	B) the population is D) the population is	
77.	A random sample o	f size 5 is taken from	a uniform distribut	ion over (0,1). Then
	the expected of the 3 A) 1/2	3 rd order statistics is B) 1/3	C) 1/4	D) 1/6
78.	For a random	variable X whi	ich has the pro	bability function,
	$f(x) = \frac{k}{x!}, x = 0, 1, 2,$, the value of const	ant k is	
	A) e	B) 1/e	C) e + 1	D) e - 1
79.	Let two random v	ariables X and Y joi	ntly have bivariate i	normal distribution,
	A) Normal	I distribution of Y giv B) Cauchy	C) Gamma	D) Chi-square
80.	An analogous para	ametric test for the	Mood's test based	on two independent
	samples is A) t-test	B) F-test	C) Chi-square test	D) Z-test
81.	The coefficient of v A) 1/4	ariation of Poisson d B) 1/2	istribution with mear C) 4	1 4 is D) 1
82.	The moment gener	cating function of a c	chi-square distributio	on (say $M_X(t)$) with
	2 degrees of freedo		, ,_1	D) (1 0.)-1
	A) $(1-t)$	B) $(1-2t)$	C) $(1-t)^{-1}$	D) $(1-2t)$
	A) $(1-t)$	<i>D)</i> (1 2-)	•	
83.	For a Normal und	erlying population, t		
83.		erlying population, t	he ARE of Mann-W	

84.	Acceptance sampling A) Process control C) Both process and p		ly used for B) Product control D) none of the above	
85.	Let f be a measura function -f is A) Measurable B) May or may not be C) Measurable if func D) Outer measurable	· measurable	d over a measurable ere on E	ser E. Then the
86.	When the Karl Pear the two regression lin A) Coincide C) Cut each other at a	nes	B) Become perpendic D) Become parallel	
87.	Latin square design A) 2-way layout	is an incomplete B) 3-way layout	C) 4-way layout	D) 5-way layout
88.	The number of basic the set of constrain	e feasible solution(s) ints as $2x_1 + 3x_2 + x_3$	for a linear programs $3 = 7 \text{ and } x_1 - x_2 + 3x_3$	ming problem with $x_1 \ge 0$,
	$x_2 \ge 0, x_3 \ge 0$) is A) 0	B) 1	C) 2	D) 3
89.	The variance of Bernard A) p^2	noulli distribution is B) $p(1-p)$	C) $(1-p)^2$	D) $p/(1-p)$
90.	For M/M/1 queuing probability distribut A) Normal	tion of the queuing ti	e intensity less than me is C) Binomial	unity, steady state D) Geometric
91.	Which is the type	of memory for info	rmation that does n	ot change on your
	computer? A) RAM	B) ROM	C) ERAM	D) RW / RAM
92.	CD-ROM stands fo A) Compactable Res C) Compactable Dis		B) Compact Data Re D) Compact Disk Re	
93.	Which operation is A) Inputting	not performed by co	mputer? C) Controlling	D) Understanding
94.	Which of the follow A) Control Unit and C) Control unit and	Registers	components of the C B) Registers and Ma D) ALU and bus	PU? in Memory
95.	Which statement is A) 1KB = 1024 byte C) 1 MB = 1000 kil	es	B) 1 MB= 4048 byte D) 1 KB = 1000 byte	

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A digital computer did not score over an analog computer in terms of 96. D) Memory C) Cost B) Accuracy A) Speed Which of the following is the correct syntax for URL? 97. D) aol.com C) index.html B) C:\Windows A) john@xyz.com Which of the following applications is not included in OFFICE Package? 98. C) Word Perfect D) Power Point B) Excel A) Access Which of the printers used in conjunction with computers uses dry ink powder? 99. B) Line printer A) Daisy wheel printer D) Thermal printer C) Laser printer A computer program that converts an entire program into machine language at 100. one time is called a/an D) Simulator B) CPU C) Compiler A) Interpreter

Key 9.5							
Q.No.	Ans.	Q.No.	Ans.	Q.No.	Ans.	Q.No.	Ans.
1	В	26	С	51	В	76	В
2	В	27	A	52	С	77	Α
3	С	28	А	53	А	78	В
4	D	29	А	54	С	79	Α
5	A	30	С	55	D	80	В
6	A	31	D	56	В	81	В
7	В	32	В	57	А	82	D
8	С	33	С	58	А	83	С
9	D	34	D	59	С	84	, B
10	А	35	А	60	В	85	Α
11	С	36	С	61	А	86 .	В
12	А	37	D	62	С	87	В
13	D	38	D	63	A	88	С
14	D	39	A	64	A	89	В
15	В	40	В	65	С	90	D
16	А	41	D	66	A	91	В
17	В	42	OAJ	67	В	92	D
18	A	43	С	68	А	93	D
19	D	44	В	69	В	94	С
20	В	45	В	70	А	95	А
21	A	46	А	71	D	96	В
22	С	47	D	72	С	97	D
23	С	48	А	73	В	98	С
24	D	49	В	74	D	99	C
25	A	50	A	75	С	100	С

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