Supdt: Sign:

D.B.A Part - I (New Revised Course)

Annual Examination 2015

Paper: Statistics

Roll No:	
Sign of Cand:	

Time Allowe	d: <u>03 Hours</u>			Total Marks: <u>10(</u>
Note:	Section – A is compu	ılsory. It should be att	empted on the question	n paper and returned
	after 20 minutes. Cut	ting, overwriting and	use of pencil is not allo	owed.
Time:	20 Minutes	(Sec	tion -A)	Marks: 2 <u>0</u>
Q.No.1:-	Write the correct of	ption a,b,c,d in the sp	ace provided against	each part.
i)	Weight of students in	n a class make b) continuous data		
***	a) discrete data	b) continuous data	c) qualitative data	d) none of these
ii)	Census returns are _	data.	. 1*	1) 0 1
:::\		b) secondary		
iii)	ol addition	b) aggregate	of facts.	d)overt velue
iv)	The difference between	u) aggregate n the estimated and the t	c) approximation	called
17)		b) absolute error		
v)		rough investigator is c		
• • •	•	1 \	` 1	15 .
vi)	If A.M of 7,5,13,X a	nd 9 is 10. The value of	of X is	.,
,	a) 12	b) ungrouped nd 9 is 10. The value o b) 14	c) 16	<u>d) 18</u>
vii)	P50 =		,	,
	a) Q3	b) 14 b) Q1	c) D9	d) D5
viii)	Median =	•		
	a) Q3	b) Mean ange is an	c) P50	d) Q1
ix)	Semi inter quartile ra	inge is an	measure of dispe	ersion.
		b) absolute	c) commutative	d) none of these
x)	$C.V = \frac{S.D}{?} \times 100$			
	a) median	b) H.M	c) A.M	d) M.D
xi)	Co-efficient of Skew	$v_{\text{mess}} = \frac{?-Median}{M.D}$		
	a) maan	b) SD	a) Mada	<i>4</i>) O2 O1
xii)	a) mean _1 < 4 <	0) 3D	c) Mode	a) Q3-Q1
XII)	$-1 \le \gamma \le \phantom{AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA$	b) +1	->	3\
•••	a) -1	,	c) zero	d) $-\gamma$
xiii)		pendent constraints in a		
		b) constraints	,	, 1
xiv)		and thickness are taken i		
xv)	Diagram give an	b) two dimension	regult	u) none or a,o, c
Αν)	a) actual	b) accurate	c) annroximate	d) none of these
xvi)	Index number for the	e current year = $\frac{\sum P1q^{3}}{?}$	0 -×100	d) none of those
	a) $\Sigma P0q0$	•	c) Σ <i>P</i> 1 <i>q</i> 1	d) $\Sigma P1q0$
xvii)	A graph of commula	tive frequency is calle	d	· -
,	a)histogram	b) frequency curve c)	frequency polygon d) co	 umulative frequency curve
xviii)	Laspeyer's formula			
	a) $\Sigma P0\sigma 0$	b) Σ <i>P</i> 0 <i>q</i> 1	c) $\Sigma P1q1$	d) Σ <i>P</i> 1 <i>q</i> 0
xix)				
A1A)	a) discrete	variable is limited b) continuous	c) individual	d) none of these
xx)	Law for independent	t events A and B	oj martidudi	a) none of alese
,	a) D(A)+D(D)	t events A and B b) $\frac{P(A)}{P(B)}$ c) $P(A)$	(A) D(D) A) D(A) D(B	2/\
	a) r(A)+r(B)	$P(B) \stackrel{c}{\sim} P(B)$	(A)P(B) a) $P(A)P(D)$	(A)

Khyber PakhtunKhwa Board of Technical Education Peshawar

DBA Part - I

Annual Examination 2015

Paper: - Statistics

Time Allowed: -

02 Hrs & 40 minutes.

Marks: - 80

Section - B (Marks: - 40)

Q.No.2: - Attempt only eight parts. Each part carries 05 marks.

- i. Write a note on collection of statistical data.
- ii. Explain what is meant by the term Statistics.
- iii. Calculate the H.M of the following data. 25,

iv. Calculate range and co efficient of range of the following data.

35 45 55 65 75

						4, 51, 551,	
Marks:	10	11	12	13	14	15	16
No of Candidates:	24	201	303	763	509	605	80

- v. Write short note on mean deviation and standard deviation.
- vi. Write the important properties of the correlation co-efficient.

vii. Find regression equation of x on y:

x:	1	2	3	4	5
y:	2	5	3	8	7

viii. Calculate the G.M of the data given below.

171 175 180 185 190

- ix. Define Chi-square test, degrees of freedom and levels of significance.
- x. What is a trend and how it is measured.

Section – C (Marks: - 40)

Note: - Attempt any 04 questions from this section. Each question carry 10 marks.

Q. 3: - The following data represents the charges billed by a plumber for his 25 home services calls:

39,62,37,44,57,64,48,67,48,67,40,59,38,56,44,52,40,60,41,49,36,46,41,67,46,64,62

Taking 4 as class interval construct a frequency distribution.

<u>Q.4: -</u> Calculate the mean and median from the following distribution.

Marks	10-19	20-29	30-39	40-49	50-59
No of students	3	10	15	20	30

Q.5:- Calculate the co-efficient of Skewness of the following series.

Size of item:	2	3	4	5	6	7	8	9
Frequency:	3	8	10	12	16	14	10	8

<u>O.6:</u> From the following index numbers prepare the news ones by using chain base method.

Year:	1950	1951	1952	1953	1954	1955
Index number:	94	98	102	95	98	100

Q. 7: - A pair of dice are thrown. Find the probability of getting a total of either 5 or 11.
