Model Paper "Statistics" For Bridge Courses of Foundation Diploma of ACCA **Annual Examination 2017 & Onward**

Objective

Part-A

the pr	This part is	compulsory. It should left. Cutting, overwriting					Roll No: Total Marks: 20 rned to the supervisory staff afte visory staff is required to attach i				
1	(i)	In a percentage frequency distribution the total of percentage frequencies is:									
		(a) 1 (b)1		(c) Σf		(d)	ΣX				
	(ii)	Color of hair is a:			(l-) D:	4 1	L1.				
		(a) Continuous var(c) Qualitative vari			` '	rete varial ntitative v					
	(iii)	A quantity calcula		ı sample			uriuore				
	()	(a)Statistic		(b) Sai							
		(c)Parameter		(d)Nor	ne of thes	e					
	(iv)	The data which ha	ave alrea	•		•	eone are called:				
		(a)Secondary data (c)Arrayed data			nary data ne of thes						
	(v)	Geometric mean	of X – 2.4	` ′	ic of thes						
	(*)	(a)Zero	(b)4	,0 13.	(c)6		(d)8				
	(vi)		the simpl	le avera	ge of the	reciproca	al of all the values:				
		(a)Arithmetic mean	(b)G.	M.	((c)H.M.	(d)Mode				
	(vii)	The difference beta (a)Interval	tween lar (b)S.I	_	l smalles (c)Rang		(d)None of these				
	(viii)	For symmetrical of			3.6	1' . 3.6	1				
		(a)Mean < Median (c)Mean < Mode <									
	(ix)	The variance of 5.		` ′	an – Moc	ic – Mcui	an				
	(IA)	(a)Zero	(b)5	1 5 15.	(c)25		(d)None of these				
	(x)	If the mean $= 40$,	$\mathbf{Mode} = 4$	12, the d	istributio	on is:	· ,				
		(a)Symmetrical	` '	ely skew							
	(vri)	(c)-vely skewed	` '	one of the		aallad.					
	(xi)	A curve having a flat top and short tails is called: (a) Kurtosis (b) Meso – kurtic (c) Platy-kurtic (d) Lepto-Kurtic									
	(xii)	` '					and direction of linear				
	,	relationship between two variables is called:									
		(a)S.D.	cc:	(b)Var							
	(!!!)	(c) Correlation Coe		, ,	ne of thes	e					
	(xiii)	For Lepto-kurtic (a)b2>3	distribut >(b)b2		$(c)b_2=3$		(c)b ₁ >3				
	(xiv)		` /		` ′	nne hlack	from a bag containing 5				
	(2011)	white and 4 black		5 one wi	inc and v	one black	Trom a bag containing b				
		(a)4/9 $(b)5$	5/9	(c)1/9		(d)	9/9				
	(xv)	What is total angle (a)90®	e of pie d (b)180	_	(c)360®)	(d)None of these				
	(xvi)	An Ogive is a:									
		(a) Frequency Polys	-		quency C						
	(•• <u>)</u>	(c)Cumulative freq	•	` ′	ne of thes		1 . 11 1				
	(xvii)	(a)Weighted	e not of e		portance weighted		ex number is called:				
		(c)Simple			ne of the						
	(xviii)	If A is an empty s	et and S i	` / `							
	, ,	(a)P (AUS) = 1		(b)P(A)	$A\Pi S$) =1						
		(c)P(AUS) = 0		` / `	A) = P(S)						
	(xix)	Index number for		period	-	s taken as					
	(vv)	(a)One (b)Z		ictics es	(c)100	occod in l	(d)200				
	(xx)	Now-a-days the w (a)2 (b)3		(c)4	_	(d)5	now many ways				

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SUBJECTIVE

Part-B

Time: 02:30 Hours Total Marks: 80

Section-I

Short Questions $8 \times 5 = 40$

Q. 2. Attempt any eight of the following

- i. Define secondary data and also write down its sources.
- ii. Given $U=(\underline{X-170})/5$, $\Sigma fu=100$, $\Sigma f=200$, find Arithmetic Mean.
- iii. Given $\Sigma P_0 Q_0 = 850$, $\Sigma P_1 Q_0 = 1170$, find Laspayre's price index number.
- iv. Give that Mean = 156.17, Median = 153.50 and Standard Deviation = 19.03, calculate Co-efficient of Skewness.
- v. If P(A) = 1/3, $P(AUB) = \frac{1}{2}$ and $P(A \cap B) = 1/10$, find P(B)
- vi. In a moderately skewed distribution the value of Mean and Median are 120 and 110 respectively, find the value of mode.
- vii. Enlist the steps involved in the construction of frequency distribution.
- viii. Draw histogram for the frequency distribution given below.

Cla	asses	60-62	62-64	64-66	66-68	68-70	70-72	72-74
Fre	equency	1	8	11	7	5	6	1

- ix. Write four Relative measures of dispersion.
- x. Write down the advantages of organization of data.

Section-II

Long Questions 4x 10=40

Attempts any four of the following.

Q.3.(a) The following figures relate to the bonus paid to 40 factory workers:

Bonus (in Rs.)

76,70,54,70,104,58,88,94,89,57,86,62,58,73,103,90,84,90,88,59,84,63,65,72,101,56,87,92,60,87,83,69,57,71,102,57,83,93,61,86

Prepare a frequency distribution taking the class width as 7, by inclusive method.

(b). Reciprocals of X are given below; Calculate Harmonic Mean and Arithmetic Mean of the data.

0.0267, 0.0235, 0.0211, 0.0191, 0.0174, 0.0160, 0.0148

- Q.4.(a). Calculate Co-efficient of Variation
 - **(b).** Calculate Pearson's Co-efficient of Skweness

Groups	0-4	5-9	10-14	15-19	20-24	25-29
Frequency	4	5	20	16	4	1

- Q.5. (a). Find the regression equation of income on years of service,
 - **(b).** Find Correlation Co-efficient.

	•						
Years of service	11	7	9	5	8	6	10
Income of Rs: in 1000's	10	8	6	5	9	7	11

Q.6. (a) Construct price index number for the year 1992 on the basis of the year 1990 of the following by using Fisher's Ideal formula:

Commodity	1990		1992	
	Price	Qty.	Price	Qty.
A	7	70	5	49
В	5	27	7	30
С	10	35	9	28

(b)Draw Frequency Polygon representing the following data:

Marks	10-19	20-29	30-39	40-49	50-59
No. of Students	5	25	40	20	10

Q.7. (a) The probability that a college students can pass a subject is 3/5, find the chance that out of 5 students: (i) at least 3 will fail (ii) at most 3 will pass

(b)Given the probability distribution, find K

X	0	1	2	3	4
P(X)	1/210	20/210	K	70/210	10/210