Roll No _L-HR-G2-12-18_ (To be filled in by the candidate)

(Academic Sessions 2015 – 2017 and 2016-2018)

STATISTICS	218-(INTER PART – II)	Time Allowed : 15 Minutes
(COMMERCE GROUP)	GROUP – II	Maximum Marks : 10

Q.PAPER (Objective Type) **PAPER CODE = 8648**

Note : Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1	The number of important basis of classification is :	
	(A) Two (B) Three (C) Four (D) Five	
2	Simple index number involves commodities :	
	(A) More than one (B) One (C) Two (D) Three	
3	$^{n}p_{r} = - - -$:	
	(A) $\dfrac{n!}{r!}$ (B) $\dfrac{n!}{(n+r)!}$ (C) $\dfrac{n!}{r!(n-r)!}$ (D) $\dfrac{n!}{(n-r)!}$	
4	The number of chairs in the college is an example of :	
	(A) Constant (B) Continuous variable	
	(C) Discrete variable (D) Both A and B	
5	π is a :	
	(A) Constant (B) Variable (C) Statistic (D) Co-efficient	
6	The graph of cumulative frequency distribution is called :	
	(A) Histogram (B) Ogive (C) Frequency polygon (D) Multiple bar chart	
7	If three coins are tossed then the possible outcomes are :	
	(A) 3 (B) 9 (C) 4 (D) 8	
8	Price relative are equal to :	
	(A) $\dfrac{p_n}{p_o} \times 100$ (B) $\dfrac{p_n}{p_{n-1}} \times 100$ (C) $\dfrac{p_o}{p_n} \times 100$ (D) $\dfrac{p_{n-1}}{p_n} \times 100$	
9	We must arrange the data before calculating :	
	(A) A.M. (B) Median (C) Mode (D) None of these	
10	The model letter of the word " STATISTICS" :	
	(A) S (B) T (C) I (D) S and T	

STATISTICS - (Academic Sessions 2015 - 2017 and 2016-2018)
(COMMERCE GROUP) 218-(INTER PART – II) Time Allowed : 1.45 hours
(Essay Type) GROUP – II Maximum Marks : 40

SECTION – I

2. **Write any SIX (6) short answers of the following questions :** 12

(i) What is quantitative variable? (ii) What is a parameter?
(iii) What is a population? (iv) Define the term class-mark.
(v) Define tabulation. (vi) Define class-interval.
(vii) What is an array? (viii) Give two advantages of graphs.
(ix) Define multiple bar diagram.

3. **Write any SIX (6) short answers of the following questions :** 12

(i) Write any two reasons of average calculation. (ii) Define arithmetic mean.
(iii) Find arithmetic mean when sum of five values is 60. (iv) Define model class.
(v) Enlist any two uses of index number. (vi) What is price index number?
(vii) Define permutation. (viii) What is probability?
(ix) Define subset.

SECTION – II

Note : **Attempt any TWO questions.**

4. (a) Make a frequency distribution of the following data taking class size as 1 : 4

3	2	10	9	7	6	8	6	5	7
0	9	4	2	8	5	4	3	10	0
6	10	7	8	5	3	2	9	1	2
4	6	7	1	2	10	0	5	2	8

(Turn Over)

	(C) Discrete variable (D) Both A and B
5	π is a : (A) Constant (B) Variable (C) Statistic (D) Co-efficient
6	The graph of cumulative frequency distribution is called : (A) Histogram (B) Ogive (C) Frequency polygon (D) Multiple bar chart
7	If three coins are tossed then the possible outcomes are : (A) 3 (B) 9 (C) 4 (D) 8
8	Price relative are equal to : (A) $\frac{p_n}{p_o} \times 100$ (B) $\frac{p_n}{p_{n-1}} \times 100$ (C) $\frac{p_o}{p_n} \times 100$ (D) $\frac{p_{n-1}}{p_n} \times 100$
9	We must arrange the data before calculating : (A) A.M. (B) Median (C) Mode (D) None of these
10	The model letter of the word " STATISTICS " : (A) S (B) T (C) I (D) S and T

LHR-G2-12-18

The height of college students are given below :

Height	57 – 59	60 – 62	63 – 65	66 – 68	69 – 71
No. of Students	8	15	27	18	9

Draw a histogram.

For the following frequency distribution compute mode :

Classes	30 – 39	40 – 49	50 – 59	60 – 69	70 – 79
Frequency	15	18	22	10	05

Calculate arithmetic mean :

x	5	10	15	20	25	30	35
f	3	7	10	15	10	3	2

The price of wheat (per 40 kg.) is given below. Compute chain indices using 1991 as base year :

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Price	112	124	130	160	160	172	240	240	240	300

If 3 coins are tossed, construct the sample space and find the probability of 3 heads?