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Inter - (Part-II)-A- 2018

Roll No. _____ to be filled in by the candidate. Rwp-12-18

Paper Code	4	6	4	3

Sessions:2015-2017&2016-2018

Statistics (Commerce Group) (Objective Type)

Time: 15 Minutes **Marks: 10**

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given.Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.

1.1. A balance dice is rolled probability of an even number is:

(A) $\frac{1}{6}$ (B) $\frac{1}{2}$ (C) $\frac{1}{3}$ (D) $\frac{1}{4}$

2. If a coin is tossed twice,then the probability of getting one head and one tail is:

(A) $\frac{1}{4}$ (B) $\frac{2}{4}$ (C) $\frac{3}{4}$ (D) $\frac{2}{3}$

3. π is a:

(A) Constant (B) Variable (C) Statistic (D) Co-efficient

4 Questionnaire method is used in collecting:

(A) Primary data (B) Secondary data (C) Fictitous data (D) Private data

5. The upper and lower class limits are 20 and 30, the mid point of the class is:

(A) 20 (B) 25 (C) 30 (D) 50

6. The sum of the deviations from arithmetic mean is:

(A) one (B) <0 (C) =0 (D) >0

7. The model letter of the word "Statistics" is:

(A) S (B) T (C) I (D) S and T

8. We must arrange the data before calculating:

(A) Mean (B) Median (C) Mode (D) None of these

9 Link Relative is equal to:

(A) $\frac{P_n}{P_0}\times 100$ (B) $\frac{P_{n-1}}{P_n}\times 100$ (C) $\frac{P_n}{P_{n-1}}\times 100$ (D) $\frac{P_0}{P_n}\times 100$

10. Simple index number involves commodities:

(A) one (B) two (C) three (D) four

Roll No._____to be filled in by the candidate. Rwp-12-13

Sessions:2015-2017&2016-2018

Statistics(Commerce group) (Essay type)

Time: 1:45 Hours **SECTION-I** **Marks: 40**

2- Write short answers of any six parts from the following. **2 x 6 =12**

i. Define Primary data.
ii. Define Continuous Variable.
iii. Define Qualitative variable.
iv. Define Classification.
v. Define Tabulation.
vi. Define Histogram.
vii. Define Class Interval.
viii. Define Average.
ix. Define Mode.

3- Write short answers of any six parts from the following. **2 x 6 =12**

i. Write two demerits of Median.
ii. Define Central tendency.
iii. Find median from 3,17,12,8,25,9.
iv. Define Quantity Index Number.
v. Define base year in Index Number.
vi. What is weighted Index Number?
vii. What is compound event in probability?
viii. What are equally likely events?
ix. Define dependent Events.

SECTION-II

Note: Attempt any two questions from the following. **8x2=16**

4. (a) The grades in Statistics of 50 students are as under. **4**

68	76	71	60	82	96	83	76	78	73
93	59	75	71	65	78	81	78	73	95
74	71	88	82	62	75	97	74	68	75
94	53	90	73	65	72	76	63	88	61
66	75	85	88	60	69	85	57	67	77

Make a frequency distribution taking classes as: 50-54,55-59,60-64, etc

(b) Calculate the Arithmatic Mean from the following data. **4**

Hourly wages	No of Employees
40-59	13
60-79	23
80-99	101
100-119	182
120-139	105
140-159	19
160-179	7

5. (a) Find Mode for continuous distribution. **4**

Group	15-19	20-24	25-29	30-34	35-39
f	3	8	12	9	4

(b) Calculate Fisher's Price Index Number for 2006 taking 2005 as Base year. **4**

	Price		Quantity	
Items	2005	2006	2005	2006
A	2	10	50	40
B	3	8	10	50
C	4	4	60	80

6. (a) A fair die is rolled once,what is the probability of obtaining. **4**

(i) Six. **(ii)** an odd number.

(b) A bag contains 10 light bulbs out of which 3 are defective.If two bulbs are selected at random from the bag, what is the probability that. **4**

(i) Both are defective **(ii)** Both are not defective