

1224 Warning:- Please write your Roll No. in the space provided and sign. Roll No-----

(Inter Part – II)

(Session 2020-22 to 2022-24)

Sig. of Student -----

Statistics (Objective)

Commerce Group

Paper (II)

SGD-24

Time Allowed:- 15 minutes

PAPER CODE 4641

Maximum Marks:- 10

Note:- You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white correcting fluid is not allowed.

Q. 1

1) A numerical quantity Computed from sample

- (A) Population (B) Parameter (C) Observation (D) Statistic

2) Graph of Time Series is known as

- (A) Histogram (B) Polygon (C) Ogive (D) Frequency Curve

3) Total angle of Pie chart is

- (A) 180° (B) 300° (C) 360° (D) 90°

4) Arithmetic Mean is based on

- (A) Small Values (B) All Values (C) Large Values (D) Middle Values

5) Mode of Word "PAKISTAN" is

- (A) No Mode (B) P (C) K (D) A

6) If $\sum(X - 20) = 0$ then $\bar{X} =$

- (A) 10 (B) Insufficient (C) 20 (D) 40

Information

7) In chain base method, The base Period is

- (A) Normal year (B) Not Fixed (C) One (D) Always 100

8) The most suitable average for Index Number is

- (A) G.M (B) A.M (C) Median (D) Mode

9) Probability of getting Six when a die is rolled once is

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

10) Ordered arrangement of objects is known as

- (A) Combination (B) Factorial (C) Permutation (D) Sample Space

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1224 Warning:- Please, do not write anything on this question paper except your Roll No.
(Inter Part - II) (Session 2020-22 to 2022-24)
Statistics (Subjective) (Commerce Group) Paper (II)
Time Allowed: 1.45 hours Maximum Marks: 40

Section ----- I

2. Answer briefly any SIX parts from the followings:- $6 \times 2 = 12$ *SGD-24*
- (i) What is meant by population? (ii) Name the four main departments where statistics is applied?
- (iii) What is secondary data? Explain it with example. (iv) What are the different methods of presentation of data?
- (v) Define Pie chart. (vi) What is frequency Polygon?
- (vii) Define permutations with example. (viii) What is the answer of 6C_4 and 6P_4 ?
- (ix) A box contains 7 red and 4 black balls. Find the probability of
(a) One red ball (b) One green ball.

3. Answer briefly any SIX parts from the followings:- $6 \times 2 = 12$
- (i) Give two properties of Arithmetic Mean? (ii) For skewed distribution find the value of Mean if median = 17, Mode = 26?
- (iii) Compute median if $\ell = 50$ $h = 10$ $f = 20$ (iv) Find Mode of word "STATISTICS"
 $n = 100$ $c = 80$?
- (v) Define Mode? (vi) Give various methods of Computing Arithmetic Mean?
- (vii) What is meant by term Composite index Number. (viii) Define the term base period. Name the methods of base period?
- (ix) What is Simple average of relatives?

Section ----- II

Note: Attempt any Two questions. $(8 \times 2 = 16)$

- 4.(a) Construct a frequency distribution table. Starting with intervals 0 – 9, 10 – 19, ... etc. From the following mathematics by 50 students.

40 28 11 47 15 45 52 53 61 39 32 24 0 23 32 26 50 80 54 44
65 31 06 27 0 31 42 74 37 68 0 15 14 19 23 30 34 38 50 50
11 05 22 07 36 25 93 69 31 55

- (b) Construct a graph of Histogram on the basis of the following data?

Year	1995	1996	1997	1998	1999	2000	2001	2002	2003
Production	15	25	30	48	32	35	28	36	50

5. (a) Compute Arithmetic mean for the following data if $d = x - 15$

d	-12	-8	-4	0	4	8	12
f	2	5	8	18	10	6	1

- (b) Find Median for the following data

Marks	10-19	20-29	30-39	40-49	50-59
f	4	21	55	17	3

- 6.(a) Find the index number of prices from the following data taking

(i) Year 2014 as base (ii) Average prices of all years as the base

Year	2014	2015	2016	2017	2018	2019	2020
Price	20	22	25	30	36	40	44

- (b) If a die is rolled once, what is the probability of getting (i) Prime number (ii) Even number