

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.
OBJECTIVE KEY FOR INTERMEDIATE ANNUAL EXAMINATION, 2022

369

Name of Subject: Business Statistics Session: A/22
Commerce

Q.Nos	Paper Code	Paper Code	Paper Code	Paper Code
	4641			
1	B			
2	B			
3	C			
4	D			
5	B			
6	A			
7	D			
8	C			
9	B			
10	D			
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

سرٹیفکیٹ مابین تصحیح سوالیہ پرچہ / مارکنگ Key

ہم نے مضمون Business Statistics پرچہ B-4641 پرچہ آر گروپ انٹرمیڈیٹ سالانہ امتحان 2022 کا سوالیہ پرچہ انشائیہ و معروضی (Subjective & Objective) کو بنظر عمیق چیک کر لیا ہے یہ پرچہ Syllabus کے عین مطابق Set کیا گیا ہے۔ اس سوالیہ پرچہ میں کسی قسم کی کوئی غلطی نہ ہے۔ ہم نے سوالیہ پرچہ کا اردو اور انگریزی Version بھی چیک کر لیا ہے۔ یہ Version آپس میں مطابقت رکھتے ہیں۔ نیز اس پرچہ کی معروضی (MCQs) Key کی بابت تصدیق کی جاتی ہے کہ اس میں بھی کسی قسم کی کوئی غلطی نہ ہے۔ مزید یہ کہ ہم نے Key بنانے سے متعلق دفتر کی جانب سے تیار کردہ ہدایات وصول کر کے ان کا بغور مطالعہ کر لیا ہے اور ان کی روشنی میں Key بنائی ہے۔ نیز سب ایگزامینرز کیلئے تفصیلی مارکنگ ہدایات / مارکنگ سکیم / Rubrics بھی تیار کر دی گئی ہیں۔

Prepared & Checked By:

Dated: 05-07-2022

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Re-Checked By: ہم نے درج بالا سوالیہ پرچہ (انشائیہ + معروضی) معروضی "Key" اور ہدایات کے حوالہ سے مکمل طور پر تسلی کر لی ہے۔ کسی قسم کی کوئی غلطی نہ ہے۔

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تاریخ

2022 (A)

Roll No:

373

01/07/22

INTERMEDIATE PART-II (12th CLASS)**BUSINESS STATISTICS (COMMERCE GROUP) PAPER-II**

TIME ALLOWED: 1.45 Hours

SUBJECTIVE

MAXIMUM MARKS: 40

NOTE: Write same question number and its part number on answer book, as given in the question paper.**SECTION-I**

2. Attempt any six parts.

6 × 2 = 12

- (i) Define Statistics.
- (ii) What is Qualitative Variable? Give example.
- (iii) Define Discrete Variable.
- (iv) Define Secondary Data.
- (v) Write down two demerits of A.M.
- (vi) If $U = \frac{X - 20}{10}$, $\sum fU = 200$, $\sum f = 100$ calculate A.M.
- (vii) Given that $\sum (X - 30) = 50$ for 5 observations find Mean.
- (viii) Define Average.
- (ix) Can the value of Mean, Median and Mode be the same? If yes, state the situation.

3. Attempt any six parts.

6 × 2 = 12

- (i) Give two advantages of graph.
- (ii) Define Frequency Polygon.
- (iii) Distinguish between Histogram and Histogram.
- (iv) Define Paasche's index number with formula.
- (v) What will be Laspeyre's index if Paasche's index and Fisher's index are 108 and 112 respectively.
- (vi) Write down two uses of Index Number.
- (vii) What do you understand by collectively exhaustive events?
- (viii) If A and B are two independent events and $P(A) = 0.40$, $P(B) = 0.35$, find $P(A \cap B)$
- (ix) What is the probability of getting sum of 7, when two dice thrown?

SECTION-II**NOTE:** Attempt any two questions.2 × 8 = 16
4

4.(a) The family size of all the 50 houses of a locality is as follows:

2, 4, 5, 6, 1, 3, 0, 5, 4, 3, 2, 3, 8, 2, 4, 2, 3,

1, 7, 5, 3, 2, 6, 2, 3, 4, 3, 1, 2, 4, 8, 3, 7, 1,

4, 3, 3, 5, 4, 6, 3, 2, 4, 6, 3, 9, 7, 10, 2, 3

Construct a frequency distribution taking class interval of size 1.

(b) Following frequency distribution gives the weights of students at a school.

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Weights	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59
Frequency	02	26	41	21	10

Represent data using Histogram.

5.(a) Find arithmetic mean of the given data by using Direct Method.

4

Income Rs.	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64
No. of workers	3	11	22	19	4	1

(b) Calculate Mode from the following data:

4

Marks	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59
Frequency	5	25	40	20	10

6.(a) Calculate Laspeyre's price index number for the year 2020, taking 2015 as base.

4

Commodity	2015		2020	
	Price	Quantity	Price	Quantity
A	12	5	20	4
B	15	2	25	3
C	6	2	10	2

(b) Two fair coins are tossed. What is the probability that it appears:

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- (i) All heads
- (ii) At least one head

Paper Code

Number:

4641

2022 (A)

Roll No. 374

INTERMEDIATE PART-II (12th CLASS)

BUSINESS STATISTICS (COMMERCE GROUP) PAPER-II

TIME ALLOWED: 15 Minutes

OBJECTIVE

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 bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.

Q.No.1

- (1) The value which changes and does not remain fixed is called:
- (A) Constant (B) Variable (C) Attribute (D) Median
- (2) In plural sense, statistics means:
- (A) Method (B) Data (C) Sample values (D) Population values
- (3) Total angle of Pie chart is:
- (A) 90° (B) 180° (C) 360° (D) 60°
- (4) A statistical table has at least:
- (A) One part (B) Two parts (C) Three parts (D) Four parts
- (5) In a symmetrical distribution mean, median and mode are always:
- (A) Unequal (B) Equal (C) Different (D) Negative
- (6) Sum of deviations of observation is zero about:
- (A) Mean (B) Median (C) Mode (D) None of these
- (7) The most suitable average, in connection with index number is:
- (A) A.M (B) Median (C) Mode (D) G.M.
- (8) In a fixed base method which period is always taken as 100:
- (A) Preceding (B) Following (C) Base (D) Current
- (9) The probability of an event cannot be:
- (A) $= 0$ (B) < 0 (C) > 0 (D) $= 1$
- (10) For two mutually exclusive events A and B ; $P(A) = 0.7$, $P(B) = 0.3$ then $P(A \cup B)$ is:
- (A) 0 (B) 0.4 (C) 0.3 (D) 1