

INTERMEDIATE PART-II (12th CLASS) (SPECIAL EXAMINATION)
BUSINESS MATHEMATICS & STATISTICS PAPER-II
(COMMERCE GROUP)

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 in singular sense.
- (ii) What is a qualitative variable?
- (iii) Differentiate between a variable and a constant.
- (iv) What are the important types of averages?
- (v) Find out the arithmetic mean given $\sum X = 308$, $n = 7$.
- (vi) What is the formula of median for grouped data?
- (vii) What is meant by uni-modal distribution?
- (viii) The minimum temperature in Murree for the first 10 days of March was -1, -2, 0, 3, 3, 4, 3, 2, 6, 1 find median.
- (ix) What is modal class?

3. Attempt any six parts.**6 × 2 = 12**

- (i) Define the tabulation.
- (ii) What is simple classification?
- (iii) What is meant by chart?
- (iv) Define link relatives.
- (v) What is simple price index number?
- (vi) If $\sum p_o q_o = 2560$, $\sum p_n q_o = 3003$. Find Laspeyre's P.I.N.
- (vii) Define probability.
- (viii) What is meant by event?
- (ix) Find sample space when two coins are tossed.

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

4.(a) Make a frequency distribution of the following data taking the classes as 50 – 54, 55 – 59 and so on.

70, 85, 75, 70, 72, 68, 62, 50, 54, 59, 73, 64, 67,

60, 59, 60, 65, 83, 75, 74, 80, 64, 71, 52, 72.

(b) Represent the following data diagrammatically by simple bar chart.

Country	U.S.A	U.S.S.R	U.K	Japan	Italy
Loan (in crore of rupees)	40	32	20	16	5

5.(a) Calculate median from the following data:

Marks	30 – 39	40 – 49	50 – 59	60 – 69	70 – 79	80 – 89
Frequency	1	3	11	21	43	32

(b) Calculate arithmetic mean from the data:

Height	57 – 59	60 – 62	63 – 65	66 – 68	69 – 71	72 – 74
Frequency	5	8	11	16	9	2

6.(a) Find index numbers by using average of the prices as base.

Years	1977	1978	1979	1980	1981	1982	1983	1984	1985
Prices (Rs)	22.50	25.00	27.50	30.00	35.00	32.50	37.50	47.50	45.00

(b) An Urn contains 10 white and 6 black balls. A blind folded person draw a ball from it.
What is the probability that (i) A black ball is drawn (ii) A white ball is drawn

Paper Code

Number: 4641

2021

Roll No. _____

INTERMEDIATE PART-II (12th CLASS)

(SPECIAL EXAMINATION)

BUSINESS MATHEMATICS & STATISTICS

PAPER-II

(COMMERCE GROUP)

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) Registering the birth/death in Union Council is:
(A) Primary data (B) Secondary data (C) Official data (D) Private data
- (2) The number of weeks in a month is an example of:
(A) Discrete variable (B) continuous variable (C) Attribute (D) Constant
- (3) Lower class boundary of 25 – 35 will be:
(A) 25 (B) 30 (C) 35 (D) 20
- (4) Mid-points are also called:
(A) Class limits (B) Class marks (C) Class boundaries (D) None of these
- (5) If mean of 10 observations is 60, then sum of observation is:
(A) 100 (B) 60 (C) 600 (D) 400
- (6) The mode of 2, 7, 10, 15 is:
(A) 10 (B) 15 (C) 7 (D) None
- (7) When all the values are of equal importance then index numbers are called:
(A) Simple Index Numbers (B) Unweighted Index Numbers
(C) Weighted Index Numbers (D) None of these
- (8) If Laspeyre's price index = 200, Paasche's price index = 200 then Fisher's price index = _____
(A) 100 (B) 300 (C) 200 (D) None of these
- (9) The probability of impossible event is equal to:
(A) Zero (B) One (C) 0.5 (D) 0.25
- (10) An orderly arrangement of objects is called:
(A) Combination (B) Sample space (C) Factorial (D) Permutation

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.
OBJECTIVE KEY FOR INTERMEDIATE ANNUAL EXAMINATION, 2021

Name of Subject: B. Stat & Math Session: Special 2021

Special

Q.Nos	Paper Code	Paper Code	Paper Code	Paper Code
	4641			
1	A			
2	D			
3	A			
4	B			
5	C			
6	D			
7	B			
8	C			
9	A			
10	D			
11				
12				
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20				

سرٹیفکیٹ بابت تصحیح سوالیہ پرچہ امارکنگ Key

ہم نے مضمون ب. سٹاتسٹکس اینڈ مینجمنٹ پرچہ X گروپ X انٹر میڈیٹ پارٹ سیکنڈ سلائے امتحان 2021ء کا سوالیہ پرچہ انشائیہ و معروضی (Subjective & Objective) کو بنظر عمیق چیک کر لیا ہے یہ پرچہ ALP 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: 06-12-2021

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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 تلی کر لی ہے۔ کسی قسم کی کوئی غلطی نہ ہے۔

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تاریخ