INTERMEDIATE PART-II (12th CLASS)

BUSINESS MATHEMATICS & STATISTICS (NEW SCHEME) (SESSION 2015-2017) 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.

 $6 \times 2 = 12$

- Define Statistics. (i)
- Define Continuous Variable with example. (ii)
- What is meant by Primary Data? (iii)
- Differentiate between Sample and Population. (iv)
- Define Class Interval with example. (v)
- Define the term Classification. (vi)
- How a Simple bar chart is constructed? (vii)
- (viii) Define Median.
- Write down the demerits of Arithmetic Mean. (ix)

3. Attempt any six parts.

 $6 \times 2 = 12$

- (i) If u = 15; n = 10; $\sum D = 25$, then find \vec{x} .
- (ii) Describe any two merits of Arithmetic Mean.
- Find the mode of 12, 26, 35, 12, 27, 28, 35. (iii)
- (iv) Define Link Relatives.
- (v) Why link relatives converted to chain relatives?
- Give $\sum p_n q_n = 1230$ and $\sum p_n q_n = 1600$ then find current year weighted index number. (vi)
- (vii) What is Sure Event?
- (viii) Define Independent Event.
- If A and B are two independent events such that P(A) = 0.2 and P(B) = 0.15(ix) then find $P(A \cap B) = ?$

SECTION-II

NOTE: - Attempt any two questions.

Prepare a frequency distribution from the following data taking classes as 2.2 - 2.7. 2.8 - 3.3

	A. A. S. W. 18		44-13	+7 +				
4.1	3.5	3.2	4.2	3.6	3.5	4.2	4.8	4.1
4.3	4.4	4.3	3.8	4.2	4.7	2.8	3.7	49
4.6	3.3	3.7	2.6	2.7	4.7	4.1	4.2	4.6
4.1	4.9	3.7	4.5	3.9	3.7	4.0	7.9	4.7

3.6 29 3.2

(b) Find the mode from the following data:

Masses (kg)	60 - 64	65 - 69	70 - 74	75 - 79	80 - 84	85 - 89
No. of boys	2	6	12	14	10	6

Find Arithmetic Mean by using Coding Method 5.(a)

Classes	1-2	3-4	5-6	7-8	9-10
f	1	3	5	4	2

(b) Compute weighted aggregated index numbers of prices by

(i) Laspeyre's Method (ii) Paasche's Method

	2003 (E	lase)	2004		
Article	Quantity	Price	Quantity	Price	
Wheat	56	170	63	175	
Rice	53	200	76	175	
Sugar	64	190	93	200	
Ghee	13	190	27	195	

- 6.(a) If we draw a single card from a pack of 52 playing cards. Find the following probabilities:-
 - (i) Card is black

- (ii) Picture card (iii) Card is king (iv) Black queen
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- If we throw two coins, find the probability that:-(b)
 - (i) Zero head occur
- (ii) At least on head occur

Paper (1611	-7.5	017 (S)	Roll No
Numbe	r: 4041	INTERMEDIA	TE PART-II (12th C	CLASS)
BUSIN	ESS MATHEM	ATICS & STATI	STICS (NEW SCI	HEME) (SESSION 2015-2017)
PAPER	R-II (COMME)	RCE GROUP)		
TIME A	ALLOWED: 15 N	Minutes	OBJECTIVE	MAXIMUM MARKS: 1
Cutting Siven	correct, fill that cit or filling two or m in objective type q	rcle in front of that q ore circles will resul- postion paper and le	uestion number. Use in zero mark in that o	B, C and D. The choice which you marker or pen to fill the circles. question. Attempt as many question credit will be awarded in case ECTIVE PAPER.
Q.No.1				
(1)	The data collected	from published repor	ts is known as:-	
	(A) Discrete data	(B) Arranged data	(C) Secondary data	(D) Primary data
(2)	The number of tall	y sheet count for each	value or a group is cal	led;-
	(A) Frequency	(B) Class limit	(C) Class width	(D) Class boundary
(3)	The number of class	sses depends upon:-		
	(A) Class marks	(B) Frequency	(C) Class boundary	(D) Class interval
(4)	The sum of the dev	riations taken from mo	eans is:-	
	(A) Always equal	to zero	(B) Some times equa	l to zero
	(C) Never equal to	zero	(D) Less than zero	
(5)	If the arithmetic m	ean of 20 values is 10	, then the sum of these	20 values is:-
	(A) 10	(B) 20	(C) 200	(D) 20 + 10
(6)	If the data contains	an extreme value, the	suitable average is:-	
	(A) Mean	(B) Median	(C) Weighted Mean	(D) Mode
(7)	Index numbers can	be used for:-		
	(A) Forecasting	(B) Fixed Prices	(C) Different Prices	(D) Constant Prices
(8)	Laspeyre's price inc	dex number is also cal	led:-	
1	(A) Simple aggrega	tive index	(B) Cost of living inc	lex
(C) Current year we	ighted	(D) Base year weight	ted
(9)	A measure of the ch	nance that an uncertain	event will occur:-	
	(A) An experiment	(B) An event	(C) A probability	(D) A Trial
(10)	If three coins are to	ssed, the possible out	comes are:-	ns as

(C) 1

(A) 8

(B) 3

(D) None of these

INTERMEDIATE PART-II (12th CLASS)

BUSINESS MATHEMATICS & STATISTICS (OLD SCHEME) (SESSION 2012-2014)

PAPER-II (COMMERCE GROUP)

TIME ALLOWED: 2.10 Hours

SUBJECTIVE

MAXIMUM MARKS: 60

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

SECTION-I

Attempt any six parts.

 $6 \times 2 = 12$

- (i) What is Secondary Data?
- (ii) Give two sources of Secondary Data.
- (iii) Define attribute by giving examples.
- (iv) What is empirical relationship among Mean, Median and Mode?
- (v) For a certain frequency distribution, the value of mean is 15 and median is 20. What will be the value of mode?
- (vi) Find mode of word "STATISTICS".
- (vii) Give merits of Arithmetic mean.
- (viii) Define Mode with example.
- (ix) Find Median of the data, 5, 6, 9, 5, 4, 3, 8, 7, 6.

Attempt any six parts.

 $6 \times 2 = 12$

- Define Continuous Variable.
- (ii) Define Types of Data by its source.
- (iii) What is Editing of Data?
- (iv) Name the methods of collecting Primary Data.
- (v) What do you understand by base period and how it is selected?
- (vi) Laspeyres index = 115, Fisher's index = 112.98 find Paasche's index.
- (vii) Define Composite Index Number.
- (viii) Write the Formula given by Fisher.
- (ix) Given $\Sigma p_0 q_0 = 352$, $\Sigma p_1 q_0 = 422$, $\Sigma p_0 q_1 = 402$, $\Sigma p_1 q_1 = 481$ then find (i) Base year weighted 1. No (ii) Current year weighted Index No.

Attempt any six parts.

 $6 \times 2 = 12$

- Define Statistics in Singular Sense.
- (ii) What do you mean by Census?
- (iii) Write two formats for the presentation of Data (only name).
- (iv) Explain Classification and Tabulation.
- (v) Write Sample Space when three coins are tossed.
- (vi) Define Mutually Exclusive Events.
- (vii) Differentiate between Simple Event and Compound Event.
- (viii) If "A and B" are independent events and P(A) = 0.62, P(B) = 0.44 find $P(A \cap B)$.
- (ix) Define Random Experiment.

SECTION-II

NOTE: - Attempt any three questions.

5.(a) Marks obtained by 50 students of a class are given below.

		101101		63	75	12	33	26	
23	50	38	42	0.5	41,000	111123			15
39	35	47	43	52	56	59	64	77	15
21	51	54	72	68	36	65	52	60	27
34	47	48	55	58	59	62	51	48	
50	41	57	65	54	43	56	44	30	
46	67	53							225

Makes a frequency distribution using the classes as 10-19, 20-29 etc.

(b) Make the histogram of the frequency distribution in part (a).

Calculate arithmetic mean for the following data by using Direct method. 6.(a)

Income	35-39	40 – 44	45-49	50-54	55 - 59	60 - 64	65-69
					10	10	5
f	13	15	28	17	12	10	,

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The average marks obtained by the students of 3 Sections in Maths class are given below. (b) Find Combined Mean.

Average marks
75
62
68
Ì

7.(a) The class marks for the ages of sales clerks employed in a departmental store are: 18.5, 28.5, 38.5, 48.5, 58.5 and 68.5. Find class boundaries of this distribution and compute median if the if the class frequencies are 7, 12, 23, 35, 25 and 8 respectively.

(b) Find mode for the values.

(i) 6, 3, 5, 2, 6, 4, 8, 5, 6

(ii) 1, 3, 4, 7, 9, 10, 11, 13, 14, 16

Compute the Chain Indices fro the following data for 1974 to 1979.

Year	Prices
1974	18
1975	19
1976	25
1977	30
1978	28
1979	32

Construct Index number of prices for year 1990 taking 1985 as base year by Paasche's method. 4 (b)

	ces	Quantity		
		1985	1990	
	and the same of th	2	3	
	45	4	2	
	25	3	4	
55	70	1	2	
	Pric 1985 60 40 20 55	Prices 1985 1990 60 80 40 45	Prices Quar 1985 1990 1985 60 80 2 40 45 4 20 25 3	

A pair of fair dice is rolled. Make a sample space. Find the probability that

(i) Their sum is 9

(ii) Their sum is at least 10.

(b) A bag contains 6 white, 4 red and 4 black balls. 3 balls at random are drawn from the bag. Find the probability that all three balls drawn are.

(i) of same color

(ii) of different colors.

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Paper Cod	e	2017/0	** ***
Number:	8641	2017 (S)	Roll N
Number:	0041	INTERMEDIATE PART-II (12th CLASS)

2014)

Roll No.____

BUSIN	NESS MATHEMAT	ICS & STATISTIC	S (OLD SCHEM)	E) (SESSION 2012-2014)
PAPE	R-II (COMMERCI	E GROUP)	TIM	E ALLOWED: 20 Minutes
think is Cutting as given	correct, fill that circle i	n front of that question fircles will result in zer ion paper and leave otl	question as A, B, C an number. Use marker o mark in that questio ners blank. No credit	KIMUM MARKS: 15 d D. The choice which you r or pen to fill the circles. n. Attempt as many questions will be awarded in case E PAPER.
Q.No.1		•		
(1)	Data classified by attrib	outes is called:-		
	(A) Qualitative	(B) Quantitative	(C) Discrete	(D) Continuous
(2)	The grouped data is als	o called:-		
	(A) Raw data	(B) Primary data	(C) Secondary data	(D) Qualitative data
(3)	The data collected from	n an individual is called:	-	
	(A) Secondary data	(B) Primary data	(C) Grouped data	(D) Raw data
(4)	The classification of da	ata according to regions	or locations isc	lassification.
	(A) Qualitative	(B) Geographical	(C) Time series	(D) None of these
(5)	The part of table conta	aining row captions is ca	alled:-	
	(A) Stub	(B) Body	(C) Box head	(D) Title
(6)	Total of relative freque	ncy is always:-		
	(A) One	(B) Two	(C) Half	(D) Quarter
(7)	If mean of 10 observation	ons is 60, then sum of ol	oservations is:-	
	(A) Zero	(B) 100	(C) 600	(D) - 50
(8)	Mode is graphically loc	ated by:-		
	(A) Ogive	(B) Histogram	(C) Pie-chart	(D) None of these
(9)	average cannot	be less than zero.		
	(A) A.M.	(B) G.M.	(C) weighted mean	(D) Median
(10)	The base year should b	oe:-		
	(A) First year	(B) Last year	(C) Normal year	(D) None of these
(11)	In fixed base method	which period is always t	aken as 100:-	
	(A) Preceding	(B) Following	(C) Base	(D) Current
(12)	When all the values ar	e of equal importance, the	hen index number is cal	led:-
	(A) Simple	(B) Un-weighted	(C) Weighted	(D) Cost of living
(13)	The probability of an e	vent cannot be:-		
	(A) = 0	(B) < 0	(C) > 0	(D) = 1
(14)	The probability of imp	ossible event is equal to:	-	
	(A) Zero	(B) One	(C) 0.5	(D) None of these
(15)	If a coin is tossed thric	e then the probability of	3 head is:-	

(B) $\frac{7}{8}$

(A) 0

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN

OBJECTIVE KEY FOR INTER (PART-I/II) Annual Examination, 2017.

Name of Subject Business Statistics Session

1. A 2. C 3. B 4. B 5. A 5. C 8. B 7. C 8. B 9. B 10. C 11.	Q.	Paper	Paper	Paper	Paper	Q.	Paper Code	Paper	Paper	Paper
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سرمینکیک بابت تقیج سوالیه پر چار مارکنگ Key	19.					19.				
سر فیفیکیٹ بایت تھیجے سوالیہ پر چیا مار کنگ Key رہنیں میزن مسئدہ کئیں۔ 77 میں کیا 40 توراہ اور بغیری کرن من جیسے 2002 کیسا میں میں میں میں میں	20.					20.				
ی موں میر میں ہو ہوئی ہو ہوں ہے۔ Subjective & Objevtin) کو بنظر گیس چیک کرلیا ہے یہ پر چسٹیس کے میں مطابق Set کیا گیا ہے۔اس موالیہ پر چہ یم کی کم کی کو کی باشہ ہے۔ ہم نے موالیہ پر چیکا اور وادرا تکریزی Version بھی چیک کرلیا ہے یہ Version آئیں میں مطابقت دیکھتے ہیں اور ملیس	پید مسروش می تشم کی کو	واليدير جديش كم	ru	اِئر مائلتور ^{ال} ق Set کیا کا	4 / بنو کیمن طالا	پرت سچے سوالیہ پر ج گزپ <u>کا عرش جَم او</u> یک کرلیا ہے یہ پرچسٹیس	11 ا) کو بنظر عمیق چ	مگیلگرید Subjectiv	e & Obje	vtive
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