Subject	:	Statistics in Business Decision	Roll No: ……….
Course	:	BBA	
Full Marks	:	70	Time : 3 Hours.

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PART A

MULTIPLE CHOICE QUESTIONS

(12x1=12)

1. Mean is

    a. A partition value

    b. A measure of central tendency

    c. A measure of dispersion

    d. None of these

2. A measure of dispersion

    a. Locates the central value in the data

    b. Measures the covariance of a bivariate data

    c. Measures the variations among the values in the data

    d. None of these

3. Regression analysis deals with the work of finding

    a. Approximate relationship between the two variables of a bivariate data

    b. Co-variation of two variables of a bivariate data

    c. Correlation between two variables of a bivariate data

    d. None of these.

4. The term rank is used in the following case:

    a. Quantitative character

    b. Qualitative character

    c. Both the above

    d. None of these

5. A continuous random variable assumes

    a. Only integral values between certain limits

    b. Only fractional values between certain limits

    c. Infinitely many values between certain limits

    d. None of the above

6. A fair die is rolled. Consider the following events:

A = {1, 3, 5}, B = {2, 3} and C = {2, 3, 4, 5}. Find P(A/C).

  a. 1/2   **b.** 2/3   **c.** 3/4   **d.** None of the above

7. The negatively skewed frequency curves are

  a. Equally stretched both sides   **b.** More stretched towards right
  c. More stretched towards left   **d.** None of the above

8. In a time series data given in years and quarters, the quarterly average for third quarter is 48 and the average of all quarterly averages is 50, then the seasonal index for third quarter is

  a. 96   **b.** 48   **c.** 98   **d.** None of the above

9. Cyclical variations in a time series is a kind of

  a. Seasonal variations   **b.** Irregular variations
  c. Secular trend   **d.** None of the above

10. Interval estimation is process of finding

  a. A value that lies near the actual value of the parameter.
  b. An interval within which the actual value of the population parameter lies with certainty.
  c. An interval within which the actual value of the parameter lies with specified probability.
  d. None of these.

11. A parametric hypothesis is a hypothesis regarding

  a. Only form of the distribution   **b.** Parameter of normal distribution only
  c. Parameter of any random variable   **d.** None of these

12. Sign test is a nonparametric test based on

  a. Two samples of paired observations   **b.** Two samples of equal or unequal sizes
  c. One or two samples   **d.** None of these

PART B

ANSWER ANY FOUR OUT OF SIX

                                 (4x7=28)

  1. What is meant by measures of central tendency? Explain any two of them.
  2. Explain skewness and write some measures of skewness.
  3. The rankings of 10 students in two subjects A and B are as follows:

A :	3	5	8	4	7	10	2	1	6	9
B :	6	4	9	8	1	2	3	10	5	7

  Find the correlation coefficient using Spearman's formula.

4. The following data is given:

commodity	Base year Price	Current Year price
A	52	55
B	47	52
C	28	30
D	68	70
E	32	38
F	35	40

Find price index using Simple Average of Price relatives

5. A random variable X has the following probability distribution:

x:	0	1	2	3	4	5	6	7	8
p(x):	a	3a	5a	7a	9a	11a	13a	15a	17a

(i)   Determine the value of a.

(ii)   Find $P(X \leq 3)$,

6. The mean breaking strength of cables supplied by a manufacturer is assumed to be 1800 with a standard deviation 100. In a sample of size 50 cables, it is found that the mean breaking strength is 1850. Can we support the assumed mean?

PART C

ANSWER ANY TWO OUT OF FOUR   (2x15=30)

1. What are the requisites of a good measure of central tendency? Critically evaluate mean, median and mode on the basis of these requisites.

2. Suppose the observations on X and Y are given as:

X	59	65	45	52	60	62	70	55	45	49
Y	75	70	55	65	60	69	80	65	59	61

Where N = 10 students and Y = Marks in Maths and X = Marks in Econ. Compute the least squares regression of Y on X and of X on Y.

If the student gets 61 marks in Econ, what would you estimate his marks in Maths to be?

3. What is meant by time series? What are components of a time series? Explain in brief each component of time series.

4. There are three urns having the following compositions of black and white balls:

Urn 1: 7 white and 3 black balls

Urn 1: 4 white and 6 black balls

Urn 1: 2 white and 8 black balls

One of these urns is chosen at random with probabilities 0.20, 0.60 and 0.20 respectively. From the chosen urn two balls are drawn at random without replacement.

(i)   What is the probability of getting both white balls,

(ii)   If both the balls drawn are white, find the chance that they come from urn 2.

Subject	:	Business Mathematics & Statistics	Roll No: ....
Course	:	BBA	
Full Marks	:	70	Time : 3 Hours.

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PART A

MULTIPLE CHOICE QUESTIONS (12x1=12)

1. The solution of the system of equations: $x + y + 1 = 0$ and $3x - 2y + 8 = 0$ is

 a. $x = -2$ and $y = 1$ **b.** $x = 3$ and $y = -2$

 c. $x = 2$ and $y = 3$ **d.** None of these

2. If α, β be roots of the quadratic equation $x^2 + 5x - 6 = 0$, then the value of $(\alpha/\beta) + (\beta/\alpha)$ is

 a. $-37/6$ **b.** $37/6$

 c. $5/6$ **d.** None of these

3. Regression analysis deals with the work of finding

 a. Approximate relationship between the two variables of a bivariate data

 b. Co-variation of two variables of a bivariate data

 c. Correlation between two variables of a bivariate data

 d. None of these.

4. The term rank is used in the following case:

 a. Quantitative character   **b.** Qualitative character

 c. Both the above   **d.** None of these

5. If the simple interest on a sum of Rs 16000 in $3\frac{1}{2}$ years is Rs 1680, then the interest rate is

 a. 2% p. a.   **b.** 3% p. a.   **c.** 4% p. a.   **d.** 5% p. a.

6. Rs 15000 is decreased by 10% and the decreased amount is then increased by 5%. This final amount is

 a. Rs 14250   **b.** Rs 14175   **c.** Rs 2250   **d.** None of the above

7. The pocket money of Ritu and Soma are in the ratio 2:3. If Soma's pocket money is Rs 50 more than Pocket money of Ritu, then Soma's pocket money is

 a. Rs300   **b.** Rs 200   **c.** Rs 150   **d.** None of the above

8. A tap can fill a tank in 20 minutes and another tap can fill it in 30 minutes. If both the tapes are kept open, the time required to fill the same tank is

a. 10 minutes   b. 12 minutes   c. 15 minutes   d. None of the above

9. In plotting frequency polygon, we usually consider

    a. Frequencies along horizontal axis and class intervals along vertical axis

    b. Class intervals along horizontal axis and frequencies along vertical axis

    c. Class intervals along horizontal axis and cumulative frequencies along vertical axis

    d. Cumulative frequencies along horizontal axis and class intervals along vertical axis

10. The sum of a number of values is 225. If the mean of these values is 15, then the number of values is

    a. 10   b. 15   c. 20   d. 25

11. Standard deviation is

    a. Positive square of variance   b. Positive square-root of variance

    c. Cube of variance   d. None of these

12. Index Numbers are used to study the changes in

    a. Economic numbers   b. Economic variables

    c. Economic Index   d. None of these

PART B

ANSWER ANY FOUR OUT OF SIX   (4x7=28)

1. What is meant by measures of central tendency? Explain any two of them.

2. Rajesh borrowed Rs 50000 from Vijay at simple interest of 12 % per annum for 2 years, but lent it to Sunder on the same day at 12 % per annum compound interest for 2 years. Find his gain after 2 years.

3. The rankings of 10 students in two subjects A and B are as follows:

A :   3   5   8   4   7   10   2   1   6   9

B :   6   4   9   8   1   2   3   10   5   7

Find the correlation coefficient using Spearman's formula.

4. Solve the following system of equations by substitution method or elimination method:

$$\frac{6}{x} + \frac{7}{y} = 4, \quad \frac{5}{x} - \frac{4}{y} = 23.$$

5. A military camp has provisions for 630 men to last for 25 days. How many men transferred to another camp so that the food lasts for 30 days?

6. The following data is given:

Commodity	Base year Price	Current Year price
A	52	55
B	47	52
C	28	30
D	68	70
E	32	38
F	35	40

Find price index using Simple Average of Price relatives

ANSWER ANY TWO OUT OF FOUR   (2x15=30)

1. **1.** Find mean median and mode for the following data:

Value (x)	10	12	15	18	22	25	30	32	35
Frequency (f)	2	7	12	20	27	18	13	8	3

2. Suppose the observations on X and Y are given as :

X	59	65	45	52	60	62	70	55	45	49
Y	75	70	55	65	60	69	80	65	59	61

Where N = 10 students and Y = Marks in Maths and X = Marks in Econ. Compute the least squares regression of Y on X and of X on Y. If the student gets 61 marks in Econ, what would you estimate his marks in Maths to be?

3. Draw a sub-divided bar diagram from the following data :

Items	Crops Production of Food grains (in Million Tonnes)	Crops Production of Food grains (in Million Tonnes)
	2016-17.	2017-18
Wheat	79	102
Rice	71	86
Sugarcane	29	37
Total	179	225

4. What are index numbers? Why index numbers are called economic barometers? Distinguish between weighted and un-weighted index numbers.

JGi **ARKAJAIN University**
Jharkhand

3rd Semester Examination –2021-22

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Course	:	BBA	
Full Marks	:	70	Time : 3 Hours.

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    c. A measure of dispersion   **d.** None of these

2. A measure of dispersion

    a. Locates the central value in the data   **b.** Measures the covariance of a bivariate data
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    a. Approximate relationship between the two variables of a bivariate data
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ANSWER ANY TWO OUT OF FOUR

(2x15=30)

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One of these urns is chosen at random with probabilities 0.20, 0.60 and 0.20 respectively. From the chosen urn two balls are drawn at random without replacement.

(i)   What is the probability of getting both white balls,
(ii)   If both the balls drawn are white, find the chance that they come from urn 2.

ARKA JAIN University
Jharkhand

3rd Semester Examination –2021-22

Subject	:	Marketing Management
Course	:	BBA
Full Marks	:	70

Roll No: ....

Time : 3 Hours.

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PART A

MULTIPLE CHOICE QUESTIONS

(12x1=12)

1. Marketing is a process which aims at _____
   - a. Production
   - b. Profit-making
   - c. The satisfaction of customer needs
   - d. Selling products

2. A place where goods are bought and sold against the price consideration between the buyers and the sellers is called _____.
   - a. Exchange
   - b. Market
   - c. E-commerce
   - d. Transaction

3. New product development starts with which one of the following steps of new product development?
   - a. Idea screening
   - b. Idea generation
   - c. Test marketing
   - d. Concept testing

4. Which of the following refers to marketing channel?
   - a. Integrated Marketing Communication
   - b. Distribution
   - c. Marketing Myopia
   - d. Retailing

5. Marketing mix for services includes_____.
   - a. 4Ps
   - b. 7Ps
   - c. 8Ps
   - d. 5Ps

6. Marketing segmentation is useful for
   - a. Prospects Identification
   - b. To know the customer's tastes and preferences
   - c. To target current clients
   - d. None

7. The _____ holds that consumers will favor products that are available and highly affordable (therefore, work on improving production and distribution efficiency).
   - a. Product concept
   - b. Production concept
   - c. Production cost expansion concept
   - d. Marketing concept

8. After concept testing, a firm would engage in _____ for developing and marketing a new product?

    a. Marketing Strategy Development Stage   b. Business Analysis Stage
    c. Product Development Stage   d. Test Marketing Stage

9. Demographic segmentation refers to_____
    a. The description of the people and the place in society.
    b. The description of the people's purchasing behavior
    c. The location where people live
    d. Geographic regions

10. The term "marketing mix" describes:
    a. A composite analysis of all environmental factors inside and outside the firm
    b. A series of business decisions that aid in selling a product
    c. The relationship between a firm's marketing strengths and its business weaknesses
    d. A blending of four strategic elements to satisfy specific target markets

11. Newsletters, catalogues, and invitations to organization-sponsored events are most closely associated with the marketing mix activity of _____
    a. Pricing   b. Distribution
    c. Promotion   d. Product Development

12 In _____ segmentation, buyers are divided into different groups on the basis of life style or personality and values.
    a. Geographic   b. Demographic
    c. Psychographic   d. Behavioral

PART B

ANSWER ANY FOUR OUT OF SIX

(4x7=28)

1. Explain the marketing Mix of Dabur?
2. Define communication mix. State the features of any two.
3. Define the following:
    a. Price skimming & penetration strategy
    b. Distribution channel (Direct & indirect)
    c. Pricing & consumer psychology
4. Explain the key Differences Between Product Marketing and Service Marketing.
5. Discuss the significance of channels of distribution?
6. Discuss the steps in setting a price?

PART C

ANSWER ANY TWO OUT OF FOUR

(2x15=30)

1. Marketing is the basic function of any business", explain this statement in your words.
2. Explain the different steps involved in new product development.
3. Marketing research is vital for the evaluation of a sound marketing strategy formulation"- Comment.
4. What is a Marketing Channels? Describe various marketing channels of distribution of the product.

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PART A

MULTIPLE CHOICE QUESTIONS

(12x1=12)

1. Debentures issued to a creditor for settlement of liability is classified as _____ activity?
   a) Operating
   b) Financing
   c) Investing
   d) None of the above

2. If Revenue from Operations in 2014-15 is Rs. 40,000 and in 2015-16 it is Rs. 1,00,000, which of the following is correct?
   a) Net decrease of Rs. 60,000 and negative change percent of 150
   b) Net increase of Rs. 60,000 and positive change percent of 150
   c) Net increase of Rs. 60,000 and positive change percent of 40
   d) Net decrease of Rs. 60,000 and negative change percent of 60

3. If opening debtors is Rs. 12,000, closing debtors is Rs. 18,000 and net credit sales are Rs. 75,000, what would be the average collection period in days?
   a) 65
   b) 70
   c) 73
   d) 75

4. This item is not used as a tool for Analysis of Financial Statements:
   a) Cash Flow Statement
   b) Fund Flow Statement
   c) Ratio Analysis
   d) No. of Employees Statement

5. Dividend received by other than financial enterprise is shown in cash flow statement under
   a) Operating Activity
   b) Investing Activity
   c) Financing Activity
   d) General Activity

6. Which of the following is shown under financing activity?
   a) Interest paid
   b) Commission received
   c) Cash received against sale of goods
   d) Cash paid for purchase of goods

7. Current ratio is 2:1. On the sale of fixed asset (book value) for Rs. 18000, state whether the current ratio will
   a) Improve
   b) Decline
   c) Not change
   d) Can't say

8. Current ratio is 2:1. And cash paid to Trade payables Rs. 1000, state whether the current ratio will
   a) Improve
   c) Not change
   b) Decline
   d) Can't say

9. If Current ratio is 2:1, and Bills receivable endorsed to creditors was dishonored state whether the current ratio will
   a) Improve
   c) Not change
   b) Decline
   d) Can't say

10. Working capital 6,00,000, total debt 27,00,000, non-current liability 24,00,000. Calculate current ratio
    a) 2:1
    c) 4:1
    b) 3:1
    d) None

11. In common size statement analysis of Balance Sheet, which item is taken as base of 100?
    a) Shareholder's Funds
    c) Total Current Assets
    b) Total Assets
    d) Total Non-Current Assets

12. In Ratio Analysis, answers to 'Activity Ratios' are expressed in?
    a) Ratio
    c) No. of times
    b) Percentage
    d) Fraction

PART B

ANSWER ANY FOUR OUT OF SIX

(4x7=28)

1. From the following particulars calculate:

   a. Material Cost Variance
   b. Material Price Variance
   c. Material Usage Variance

When:

Standard Quantity 12 kgs.
Actual Quantity 15 kgs.

Standard Price Rs. 9 per kg.
Actual Price Rs. 10 per kg.

2. From the following particulars extracted from the financial statements of XYZ Ltd compute:
   (A) Current Ratio
   (B) Quick Ratio
   (C) Debt equity Ratio
   (D) Total assets to debt ratio

Trade Receivable	1,00,000
Prepaid Expenses	10,000
Cash & cash Equivalents	30,000
Short- term Investment	20,000
Machinery	70,000
Bills Payable	20,000
Sundry Creditors	40,000
Debenture	2,00,000
Inventories	40,000
Expenses Payable	40,000
Equity share	1,00,000
Reserve & Surplus	50,000
Furniture	1,70,000

3. Following are the Balance Sheets of Priti Ltd. You are required to prepare a Statement of Changes in Working Capital

	2012	2013
B/R	250000	290000
Cash in hand	132000	102000
Interest accrued on investment	14000	18000
B/P	90000	115000
Bonds Payable	150000	150000
Stock	100000	80000
Debtors	80000	45000
Prepaid exp.	12000	17000
Underwriting commission	25000	35000

4. What is cash flow statement? And why cash flow statement is important for any business.

5. What are the various sources and uses of fund?

6. Kindly write limitations of cash flow.

PART C

ANSWER ANY TWO OUT OF FOUR   (2x15=30)

1. What do you understand by fund flow statement? Explain its managerial uses?

2. (A)

   From the following information, prepare comparative Balance sheet of X Ltd:

Particular	31.3.2011	31.3.2012
Reserve and surplus	6,00,000	12,00,000
Share capital	10,00,000	10,00,000
Trade payables	9,00,000	12,70,000
Land and building	15,00,000	16,00,000
Plant and machinery	5,00,000	6,30,000
Goodwill	1,00,000	---
Investments	1,00,000	1,20,000
Current Assets	8,00,000	15,20,000
Long term borrowings	5,00,000	4,00,000

   (B)

   Prepare a Common Size Income Statement from the following income statement and interpret the same.

INCOME STATEMENT

Particulars	31st March 2012	31st March 2011
Revenue from Operations	24,00,000	19,00,000
Other Income	1,00,000	1,00,000
Cost of materials Consumed	17,00,000	14,00,000
Finance Costs	2,00,000	1,60,000
Other Expenses	1,00,000	1,40,000

3. Prepare a Cash Flow Statement from the following Balance Sheet of Gujarat Spinning Mills Ltd.

Particulars	Note No	31-03-2012	31-03-2011
EQUITY AND LIABILITIES			
Shareholder's Funds :			
Share Capital		5,00,000	4,00,000
Reserve & Surplus		3,25,000	2,35,000
Non –Current Liabilities :			
Long – term Borrowings		3,10,000	3,00,000
Current Liabilities :			
Trade Payables		95,000	80,000
TOTAL		12,30,000	10,15,000
ASSETS :			
Non-Current Assets :			
Fixed Assets		7,00,000	5,00,000
Long –term Investments		56,000	70,000
Other Non-Current Assets		15,000	20,000
Current Assets:			
Inventory		2,80,000	2,10,000
Trade Receivables		1,14,000	1,40,000
Cash & Cash Equivalents		60,000	70,000
Other Current Assets		5,000	5,000
TOTAL		12,30,000	10,15,000

NTES: - (1) Reserve & surplus:

	31-3-2012	31-3-2011
General Reserve	1,35,000	1,25,000
Profit & loss Balance	1,90,000	1,10,000
	--------	---------
	3,25,000	2,35,000
	--------	---------

(2) Long term borrowings:

12% Debentures	1,50,000	2,00,000
14% Mortgage loan	1,60,000	1,00,000
	---------	---------
	3,10,000	3,00,000
	---------	---------

(3) Other Non – Current Assets:

Share Issue Expenses	15,000	20,000

(4) Cash & Cash Equivalents:

Cash	40,000	20,000
Bank	20,000	50,000
	--------	--------
	60,000	70,000
	---------	--------

(5) Other Current Assets:

Share Issue Expenses	5,000	5,000
	--------	--------

- Total interest paid during the year amounted to Rs. 37,800.

4. **Give the specimen of changes in the working capital and fund flow statement.**

3rd Semester Examination –2021-22

Subject	:	**Information Technology for Managers**	Roll No: ……….
Course	:	**BBA**	
Full Marks	:	**70**	Time : 3 Hours.

Instructions to the Candidates:

- Read the question paper very carefully.
- Candidates are required to give their answers in their own words as far as practicable.
- Question Paper is divided into Three Parts –A, B & C.
- Part-A is containing 12 multiple choice questions.
- Part- B containing SIX questions out of which FOUR questions are to be answered.
- Part C containing FOUR questions out of which TWO questions are to be answered.
- Do not write anything except your Roll No. on the question paper.
- Possession of **Mobile Phones** or any kind of **Written Material**, **Arguments with the Invigilator** or **Discussing with Co-Student** will comes under **Unfair Means** and will **Result** in the **Cancellation of the Papers**.

PART A

MULTIPLE CHOICE QUESTIONS   (12x1=12)

1. Times new Roman, Cambria, Arial are the example of _____

   a. Font face   **b.** Clipart   **c.** SmartArt   **d.** Themes

2. What is the default PowerPoint standard layout?

   a. Blank   **b.** Title slide   **c.** Title only   **d.** Comparison

3. Which type of view is not present in MS PowerPoint?

   a. Extreme animation **b.** Slide show   **c.** Slide sorter **d.** Normal

4. Which feature is not in MS PowerPoint?

   a. Scan a virus   **b.** Zoom   **c.** Background colour **d.** Slide show

5. Which key helps to move to the beginning of a line?

   a. Page Up   **b.** Page Down   **c.** Home   **d.** Insert

6. To make the selected text italic, the shortcut key is

   a. Ctrl + Z   **b.** Ctrl + Alt + I   **c.** Ctrl + K   **d.** Ctrl + I

7. To delete the selected text press

   a. Delete   **b.** Ctrl   **c.** Home   **d.** Alt

8. Press _____ to delete one word to the right.

        a. Ctrl + Delete   **b.** Ctrl + Enter   **c.** Ctrl + Tab   **d.** Ctrl + Backspace

9. How long is an IPv6 address?

        a. 32 bits   **b.** 128 bytes   **c.** 64 bits   **d.** 128 bits

10. I have a telephone connection. What type of transmission does it use?

        a. Simplex   **b.** Half Duplex   **c.** Full Duplex **d.** Double Duplex

11. The location of a resource on the internet is given by its?

        a. Protocol   **b.** URL   **c.** E-mail address **d.** ICQ

12. Which software prevents the external access to a system?

        a. Virus checker   **b.** Router   **c.** Gateway   **d.** Firewall

PART B

(4x7=28)

ANSWER ANY FOUR OUT OF SIX

1. What is Freeze Panes in MS-Excel?
2. Difference between a formula and a function in excel.
3. Explain pivot tables.
4. What is the syntax of VLOOKUP and HLOOKUP? Explain with example.
5. Difference between Sum, Sumif, Sumifs.
6. What does the IF function do in Excel? Explain with syntax.

PART C

(2x15=30)

ANSWER ANY TWO OUT OF FOUR

1. How do you create dropdown lists in excel? How would you add comments to a cell? How can you resize the column? How can you restrict someone from copying a cell from your worksheet?
2. What are some advantages and disadvantages of Ring topology? Write a comparison between star topology and ring topology.
3. Short Notes on:

   (A) Network Topology (B) E-governance (C) Multimedia (D) Networking protocol (E) Optical fiber.
4. Short Notes on:

   (A) MAC (B) VPN (C) URL (D) DNS (E) CPU