

Liabilities	Amount	Assets	Amount
Fixed Capital:		Fixed Assets	3,00,000
A	2,00,000	Investments	50,000
B	1,00,000	Current Assets:	
C	1,00,000	Stock	3,10,000
Current Accounts:	4,00,000	1,00,000	
A	40,000	Debtors	
B	20,000	60,000	
Unsecured Loans	2,00,000	Cash & Bank	
	6,60,000	1,50,000	6,60,000

On 1.04.2022, it is agreed among the partners that BC (P) Ltd. A newly formed company with B and C having each taken up 100 shares of Rs 10 each will take over the firm as a going concern including goodwill but excluding cash and bank balance. The following points also agreed upon:

- Goodwill will be valued at 3 years purchase of super profits.
 - The actual profit for the purpose of goodwill valuation will be Rs 1,00,000.
 - Normal rate of return will be 15% on fixed capital.
 - All other assets and liabilities will be taken over at book values.
 - The purchase consideration will be payable partly in shares of Rs10 each and partly in cash.
- Payment in cash being to meet the requirement to discharge A, who has agreed to retire.
- B and C are to acquire capital interest in the new company.
 - Expenses of liquidation Rs 40,000.

You are required to prepare the necessary Ledger Accounts
A summary of receipts and payments of Calcutta Swimming Club for one year is given below:



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2nd Semester End Term Backlog Examination: 2021-22.

Subject : Financial Accounting II

Course : B.Com (Hons.)

Full Marks : 70

Roll No:

Time : 3 Hours.

Instructions to the Candidates:

- Read the question paper very carefully.
- Start writing from 2nd page onwards; Don't Write On The 1st Page Backside.
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PART - A

Multiple Choice Questions

- [12x1=12]
- Receipts & Payments A/c shows subscriptions collected Rs. 64,000; Subscriptions accrued in the beginning of the year and at the end of the year were Rs 9,000 and Rs 12,500 respectively; Advance subscription received at the end of the year was Rs 2,500. The figure of subscription received that would appear in Income & Expenditure A/c will be:
 - Rs 58,000
 - Rs 65,000
 - Rs 70,000
 - Rs 63,000
 - When the books of amalgamation of firms are being closed then assets and liabilities are transferred to:
 - Capital account
 - Revaluation account
 - Realization account
 - None of these
 - Under Hire-Purchase agreement ownership is transferred:
 - As soon as the first installment is paid
 - Until the last installment is paid
 - Both the cases
 - None of these.

4. Which of the following businesses usually maintain incomplete accounting record of the business activities?

- a) Large businesses
- b) Companies
- c) Big Partnership firms
- d) Small businesses

5. Which of the following is to be recorded in an income and expenditure account?

- a) Purchase of a fixed asset
- b) Capital expenditure incurred on a Fixed asset
- c) Profit on the sale of a fixed asset
- d) Sale of a fixed asset

6. Cash price plus interest is:

- a) Installment price
- b) Creditor account
- c) Hire purchase price
- d) All of the above

7. Statement of assets and liabilities prepared under single entry system is called:

- a) Statement of Affairs
- b) P/L statement
- c) Balance sheet
- d) Income statement

8. Credit sale is determined by preparing.....

- a) Purchase account
- b) Creditor account
- c) Debtor account
- d) Cash account

9. Under which system, ownership is transferred on payment of final installment:

- a) Installment system
- b) Credit system
- c) Hire purchase system
- d) Cash system

10. ----- is the initial payment made at the time of signing the hire purchase agreement:

- a) Hire purchase price
- b) Cash price
- c) Down payment
- d) Installment price

11. Credit purchase is determined by preparing:

- a) Creditor account
- b) Debtor account
- c) Cash account
- d) None of these

12. Initial payment is also known as:

- a) Installment
- b) Cash price
- c) Down payment
- d) All of the above

PART - B

Answer: any FOUR out of SIX

[4x7=28]

1. What do you mean by purchase consideration & how would you calculate it?
2. Pass the necessary Journal Entries in the books of the Hire Vendor.
3. How would you calculate profit in an organization following Single Entry system.
4. Madhuri Dixit purchased a motor car on Hire Purchase system. The total cash price of the car is Rs 15980 payable as Rs 4000 as down payment, and 3 instalment of Rs 6000, Rs 5000 & Rs 2000 payable at the end of every year. Interest charged is 5% p.a.

Calculate the interest & principal amount of the above mention transaction.

5. A Ltd. had purchased a machinery on 1.1.2022 on hire purchase system from B Ltd. The terms are that A Ltd. would pay Rs 20,000 down on signing of the agreement on that date and four annual instalments of Rs 1000 each. A Ltd charged depreciation @10% per annum on cost under diminishing balance system. B Ltd charged interest @10% per annum in their contract. Prepare machinery account and account of B Ltd. in the books of A Ltd.

6. Calculate the Profit for the year ending 31st March, 2022

X keeps his books under single entry system. His Assets & Liabilities are as follow-

Particulars	Bal as on 1 st April, 2021	Bal as on 31 st March, 2022
Cash in Hand	500	300
Cash at Bank	2500	2700
Stock	4500	4200
Debtors	3800	5100
Plant & Machinery	8000	10000
Creditors	4300	4000
Bills Payable	1000	-

During the year X introduced Rs 4000 as fresh capital & withdrew Rs 500 every month.

PART - C

Answer any TWO out of FOUR

[2x15=30]

1. What do you mean by the term single entry? How does it differ from Double Entry system?

2. What are Non-profit Organisations? State ten differences between Income & Expenditure Account & Receipts & Payment Account?

3. A, B and C were in business sharing profit and losses in the ratio of 2:1:1. Their Balance Sheet as at 31.03.2022 is as follows:



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19/2

2nd Semester End Term Backlog Examination: 2021-22.

Subject : Business Awareness II **Roll No:**
Course : B.Com (Hons.)
Full Marks : 35 **Time** : 3 Hours.

Instructions to the Candidates:

- Read the question paper very carefully.
- Start writing from 2nd page onwards; Don't Write On The 1st Page Backside.
- Question Paper is divided into Three Parts -A, B & C.
- Part-A is containing 5 multiple choice questions & 5 very short questions.
- Part- B containing FOUR questions out of which TWO questions are to be answered.
- Part C containing THREE questions out of which ONE questions are to be answered.
- Do not write anything except your Roll No. on the question paper.
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Multiple Choice Questions

[5x1=5]

PART - A

1. The development of a new venture based on an inventor's work often requires _____.
a) Expertise of an entrepreneur.
b) Heavy investment from financiers
c) Skilled human resources
d) Highly educated staff
2. Minimum number of members to form a private company is _____.
a) 2
b) 3
c) 5
d) 7
3. Flipkart acquired Myntra in _____.
a) 2014
b) 2008
c) 2015
d) 2018
4. A business where an individual is both the owner and conductor of the business affairs is called _____.
a) Sole Proprietorship.
b) Partnership
c) Corporation
d) None of the above

5. The idea and actions that explain how a firm will make its profits refers to

- a) Mission
- b) Goal
- c) Strategy
- d) Objective

Trans: form the following sentences: [5x2=10]

1. What is SWOT Analysis?
2. Mention two difference between Public & Private Company?
3. What is Incorporation of a Company?
4. Draw Up a Life cycle of a Product.
5. What is the difference between Innovation & Invention?

PART - B

Answer any TWO out of FOUR [2x5=10]

1. What are the different types of sectors in India?
2. Define company. What are the characteristics of a private and a public company?
3. State some of the characteristics of a successful entrepreneur.
4. Explain the concept of Product Innovation

PART - C

Answer any ONE out of THREE [1x10=10]

1. Explain the product life cycle of Starbucks in Indian market.
2. What is PESTLE Analysis? Why is it important
3. Explain the concept of Business Model Innovation



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2nd Semester End Term Backlog Examination: 2021-22.

Subject : Introduction to Marketing

Roll No:

Course : B.Com (Hons.)

Full Marks : 70

Time : 3 Hours.

Instructions to the Candidates:

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PART - A

Multiple Choice Questions

[12x1=12]

1. The stage of the product life cycle that focuses on expanding market and creating product awareness and trial is the
a) Introduction Stage
b) Maturity Stage
c) Growth Stage
d) Declining Stage
2. All of the following would be ways to segment within the category of Psychographic segmentation except
a) Personality
b) Status
c) Occupation
d) Lifestyle
3. The advantages of audience selectivity, No ad competition and personalization apply to which type of media.
a) Newspaper
b) Direct Mail
c) Radio
d) Television
4. Price of a shoe is \$299. This is an example of _____ Pricing
a) Penetration Pricing
b) Psychological Pricing
c) Skimming Pricing
d) Mark Up Pricing

company following?

- a) Marketing
- b) Production
- c) Product
- d) Selling

6. Family Life Cycle is most likely to be based on

- a) Buying power and gender
- b) Geographic location
- c) Decision making
- d) Marital status and age of children

7. Placing the product in selected areas to test its acceptance just before launching the product is

- a) Test marketing
- b) Concept testing
- c) Market testing
- d) Business analysis

8. The pricing strategy in which the price for the product is kept high

- a) Penetration Pricing
- b) Psychological Pricing
- c) Skimming Pricing
- d) Mark Up Pricing

9. Samples, Discounts and Coupons are an example of

- a) Advertisement
- b) Direct Marketing
- c) Personal selling
- d) Sales promotion

10. AIDA stands for Attention, Interest, Desire and _____

- a) Awareness
- b) Availability
- c) Action
- d) Arrangement

11. All of the following are different ways a firm can obtain new products, except which one?

- a) By acquiring a whole new company
- b) By acquiring a whole new company
- c) A firm can obtain a new product by licensing someone else's new product
- d) A firm can obtain a new product by using the R&D department of other firms in the same industry.

12. _____ is a period of market acceptance and increasing profits.

- a) Product development
- b) Maturity
- c) Growth
- d) Introduction

PART - B

Answer any FOUR out of SIX

[4x7=28]

1. What is promotion? Discuss the different elements of promotion mix
2. Define Market Research. Discuss the uses of Marketing Research.
3. What are the different channel levels?
4. Discuss the various kinds of Pricing Strategies.
5. Differentiate between Marketing and Selling.
6. Distinguish between goods and services.

Answer any TWO out of FOUR

[2x15=30]

1. What is product life cycle? Discuss the various stages of product life cycle.
2. What is market segmentation? Describe the different types of market segmentation.
3. Describe the Marketing Mix for Service Industries.
4. Briefly explain the stages of New Product Development.



4. Dynamic Ltd. Issued 6,000 shares of Rs.100 each at a premium of Rs.10 each payable as follows :
On Application Rs.30, On Allotment Rs.40 (including premium), On First and Final call Rs.40. Application money received only 5,000 shares. These share were applied and duly received exception of the First and Final call on 100 shares. These share were subsequently forfeited and only 80 shares were re-issued as fully paid Rs.105 per share. Pass necessary Journal entries in the books of Company.

2nd Semester End Term Examination: 2021-22.

Subject : Corporate Accounting **Roll No:**

Course : B.COM (Hons.-) **Time** : 3 Hours.

Full Marks : 70

Instructions to the Candidates:

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PART - A

Multiple Choice Questions

[12x1=12]

1. It is Compulsory for a holding company to purchase at least..... of total voting power of a subsidiary company.
a) 50%
b) 51%
c) 49%
d) 52%
2. After purchasing the shares of a subsidiary company, capital reserve is recorded in the..... side of consolidated Balance sheet of a Holding company.
a) Liabilities side
b) Assets side
c) Both (a) & (b)
d) None of these
3. It is For a holding company to prepare Consolidated Balance sheet.
a) Compulsory
b) Desirable
c) Optional
d) None of these
4. Which method will be used to record to record Amalgamation in the nature of merger in the books of Transferee Company?
a) Pooling of Interest Method
b) Purchase Method
c) Balance sheet Method
d) All of these

5. Debenture holders are the
- Customer of the Company
 - Owners of the Comp.
6. Discount on Issue of debentures is?
- Fixed Assets
 - Real Assets
 - Transfer to Capital Redemption Reserve Account can be made from:
 - Share Premium
 - None of these
 - Equity Shareholders are:
 - Creditors of the Company.
 - Directors of the Company.
7. Redemption of Preference Shares of a Company within 20 years from the date of issues is:
- Compulsory
 - Necessary
10. Total amount of liabilities side includes the following:
- Authorised Capital
 - Subscribed Capital
11. The profit on reissue of forfeited shares is transferred to:
- Bonus share A/c
 - Capital Reserve A/c
12. A new Company cannot issue shares at
- Premium
 - Par

PART - B

Answer any FOUR out of SIX

[4x7=28]

- What are the conditions of amalgamation in the nature of merger? Explain.
- What is Capital profit? How is it calculated? Explain.
- Distinguish between Debenture holder and Shareholder.
- Ravi & Company issued 5000 Debentures of Rs.100 each which were duly applied for and allotted. The debenture moneys are payable as follows:
Rs.30 on Application, Rs.40 on Allotment, Rs.20 on First call and Rs.10 on second call. A person who holds 200 debentures fails to pay the amount due on first call and another person, who is holding 400 debentures, has paid all the call money with the allotment. Pass necessary Journal entries in the books of the company.
- Total assets of X Ltd. Was Rs.12, 75,500 including preliminary expenses of Rs.5,500. This company's creditors amounted to Rs.1,70,000, Reserves Rs.1,00,000 and Capital of Rs.10,00,000 as balance. The total assets of Y Ltd. Amounted to Rs.7,50,000, Sundry creditors Rs.50,000, Bills Payable Rs.20,000, Statement of P/L

Rs.80,000 and balance of Rs.6,00,000 as Capital. After amalgamation of these companies, Z Ltd. Was formed. Calculate Purchase Consideration for both the Companies.

6. PQR Ltd. Purchased a Machine for Rs.5,00,000 on 1st April, 2013. Further addition were made on 1st Oct 2013 and on 1st July 2014 for Rs.4,00,000 and Rs.3,00,000 respectively. On 1st Jan 2015 First machine was sold for Rs.2,85,000 and new machine was purchased for Rs.6,00,000. Prepare Machine account for three years ending 31st March 2015 if depreciation is to be charged 10% p.a. on Straight Line basis.

PART - C

Answer any TWO out of FOUR

[2x15=30]

- What is Amalgamation? What Journal entries are made in the books of transferor Company at the time of Amalgamation of Companies?
- What is Depreciation? Explain the Causes and importance for providing depreciation?
- The Balance Sheet of A Ltd. & B Ltd. As on 31.03.2015 are as follows. Prepare a Consolidated Balance Sheet as at the date. On the date of acquisition of 80% shares in the B Ltd. the reserve and profits were amounted to Rs.15,000 and 10,000 respectively:

Balance Sheets (as on 31.03.2015)

PARTICULARS		A Ltd.	B Ltd.
I. EQUITY & LIABILITIES			
1. Shareholders' Funds :			
Shares of Rs. 10 each	2,50,000	50,000	
Reserve	80,000	20,000	
Statement of P/L	30,000	25,000	
2. Current Liabilities :			
Creditors	40,000	25,000	
TOTAL		4,00,000	1,20,000
II. ASSETS			
Sundry Assets			
Other Non - current Assets :	3,20,000	1,20,000	
4,000 Shares in B Ltd.	80,000	
TOTAL		4,00,000	1,20,000



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Jharkhand

16/7/22

2nd Semester End Term Examination: 2021-22.

Subject : Macro Economics

Roll No:

Course : B.Com (Hons.)

Full Marks : 70

Time : 3 Hours.

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PART - A

Multiple Choice Questions

[12x1=12]

1. Which of the following is not a component of Aggregate Demand?
a) Consumption
b) Investment
c) Government Spending
d) Pricing Policy
2. Net Domestic Product is _____?
a) Gross Domestic Product - Depreciation
b) Gross Domestic Product + Depreciation
c) $NDP_{FC} = NDP_{MP} - \text{Indirect taxes} + \text{Subsidies}$
d) None of the above
3. Real flow is _____ in nature?
a) Clockwise
b) Anti-clockwise
c) Circular
d) None of these
4. In a circular flow the Business Firms make _____ to the households.
a) Factor Payments
b) Transfer Payments
c) Unilateral Transfers
d) None of the above
5. What is the precondition for constancy of the circular flow?
a) $\text{Planned Saving} = \text{Planned Investment}$
b) $\text{Planned Saving} \geq \text{Planned Investment}$
c) $\text{Planned Saving} \leq \text{Planned Investment}$
d) $\text{Planned Saving} \neq \text{Planned Investment}$

PART - C

[2x15=30]

Answer any TWO out of FOUR

1. With the help of IS-LM model show the impact of expansionary fiscal policy on interest rate and National Income?
2. Give an account on Friedman's view regarding Phillips Curve using adaptive expectations.
3. How fiscal expansionary policies influence the trade balance of a small open economy in the following two cases:
 - a) When fiscal expansion in home country
 - b) When fiscal expansion is in abroad
4. Explain the impact of expansionary monetary policy on the Mundell-Fleming Model of Small Open Economy with Fixed Exchange rate system.

6. IS Curve shows relationship between the _____
 - a) Aggregate Supply and National Income
 - b) Rate of Interest and National Income
 - c) Rate of Interest and Investment
 - d) Aggregate Demand and National Income
7. In an IS-LM Framework, with reduction in taxation, leads to _____.
 - a) Rise in rate of interest and rise in National Income
 - b) Rise in rate of interest and fall in National Income
 - c) Fall in rate of interest and rise in National Income
 - d) Fall in rate of interest and fall in National Income
- 8: As the economy approaches near full employment level, the aggregate supply curve
 - a) Slopes downward
 - b) Slopes upward
 - c) Becomes flatter
 - d) Parallel to the X-axis
9. Friedman's View of Phillips Curve advocated that there is _____.
 - a) Trade -off between rates of inflation and unemployment.
 - b) No trade-off between rates of inflation and unemployment.
 - c) No trade-off between rates of inflation and employment
 - d) None of the above
10. According to the Rational Expectations Theory, wages quickly adjusts with the expected changes in _____.
 - a) Price Level
 - b) Output
 - c) Employment
 - d) None of the above
11. Which of the following is not an assumption of the Mundell-Fleming Model?
 - a) A small open economy
 - b) Foreign investors do not face political risk
 - c) Imperfect mobility of Capital
 - d) Tax rates are the same everywhere
12. When a protectionist trade policy is adopted the real exchange rate _____?
 - a) Rises
 - b) Remains unchanged
 - c) Falls
 - d) May rise and fall at the same time

PART - B

[4x7=28]

Answer any FOUR out of SIX

1. Explain a static macroeconomic analysis in the short run.
2. What do you mean by Aggregate Demand? What are the factors that contributes to the shifts in the Aggregate Demand Curve?
3. What do you mean by inflation? Explain briefly three types of inflation?
4. What is social cost of Inflation? What are the different types of social cost of inflation?
5. What do you mean by exchange rate? What is the difference between nominal exchange rate and real exchange rate?
6. What are the portfolio and transactions theories of demand for real balance?



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2nd Semester End Term Examination: 2021-22.

Subject : Principles of Auditing
Course : B.Com (Hons.)
Full Marks : 70

Roll No:

Time : 3 Hours.

Instructions to the Candidates:

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Multiple Choice Questions

PART - A

[12x1=12]

1. Audit programme should be:
a) Oral
b) Brief
c) Written
d) All of the above
2. Cost Audit is objects of auditing.
a) Are separate thing
b) Are the same thing
c) Are complementary
d) None of these
to each other
3. Liabilities for negligence is:
a) Criminal liabilities
b) Other liabilities
c) Civil liabilities
d) None of these
4. Examination of Vouchers comes under the scope:
a) Routine checking
b) Auditing
c) Vouching
d) All of the abov
5. To present doubtful report knowingly is:
a) Criminal report
b) Other liabilities
c) Civil liabilities
d) All of these

6. Interim audit is conducted:
- a) At the middle of the year
 - b) At the beginning of the year
 - c) At the end of the year
 - d) None of these
7. The scope of which is broader:
- a) Internal checking
 - b) Internal audit
 - c) Internal control
 - d) External control
8. Verification of annual statement is..... Object of auditing.
- a) Social
 - b) Primary
 - c) Subsidiary
 - d) None of these
9. Statutory audit is.....
- a) Compulsory
 - b) Voluntary
 - c) Periodical
 - d) None of these
10. In his report the Auditor gives his:
- a) Judgement
 - b) Guarantee to Correctness
 - c) Opinion
 - d) True Statement of affairs
11. Statutory report should be sent.....days of statutory meeting:
- a) 21 days
 - b) 30 days
 - c) 15 days
 - d) 45 days
12. Internal audit is conducted:
- a) Periodically
 - b) Throughout the year
 - c) Once in a year
 - d) All of the above

PART - B

Answer any FOUR out of SIX

[4x7=28]

1. What is Cost Audit
2. What is an Audit Programme
3. What are Internal Control Systems
4. What are errors of omission, commission and errors of principle.
5. What is the difference between Errors & Fraud
6. How will you audit the cash payments in an organisation

PART - C

Answer any TWO out of FOUR

[2x15=30]

1. "An auditor is a watch dog and not a blood hound." Elaborate on same
2. Explain the term Auditing and different types of Audit.
3. What are the Rights, Duties & Liabilities of an Auditor.
4. You are appointed as an auditor of Tata Steel Ltd, How will you carry forward Audit of Plant & Machinery & Land and Building.



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University
Jharkhand

2nd Semester End Term Examination: 2021-22.

Subject : Business Communication **Roll No:**
Course : BCOM (Hons.)
Full Marks : 70 **Time : 3 Hours.**

Instructions to the Candidates:

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PART - A

Multiple Choice Questions

[12x1=12]

1. Downward communication flows from _____ to _____
a) Upper to lower
b) Lower to upper
c) Horizontal
d) Diagonal
2. All communication starts with _____
a) Receiver
b) Decoder
c) Encoder
d) Idea
3. _____ is a psychological barrier to effective communication
a) Technical jargon
b) Distrust
c) Complex organization
d) Status difference
4. The principle of effective writing includes _____
a) Accuracy
b) Clarity
c) Brevity
d) All of the above
5. _____ of the letter consists of main message
a) Heading
b) Body
c) Greeting
d) Closing

6. Which of these is NOT normally considered to be a direction of formal communication?

- a) Upward
- b) Diagonal
- c) Zigzag
- d) All of the above

7. Which type of non-communication is known as artifacts?

- a) Clothing
- b) Posture
- c) Gestures
- d) None of these

8. In letter writing, _____ indicates to the reader of the letter what the _____ is about

- a) Salutation, letter
- b) subject, notice
- c) Body, memo
- d) subject, letter

9. Which type of communication refers to flow of information between persons holding equal rank in same departments?

- a) Lateral
- b) Downward
- c) Upward
- d) Diagonal

10. On which of the following we get immediate feedback?

- a) E-mail
- b) Letter
- c) Telephone
- d) Fax

11. Which of the following is/are business letters?

- a) Refusal letter
- b) Customer relation letter
- c) Order status letter
- d) All of these

12. The formal greeting in a business letter is _____

- a) Inside address
- b) Salutation
- c) Complimentary close
- d) Letter head

PART - B

Answer any FOUR out of SIX

[4x7=28]

1. What is written communication? State advantages & disadvantages of written communication?
2. State the importance of resume in today's time. What principles should be followed in making a resume?
3. What is the role of non-verbal communication in the success of an organization? Explain with examples.
4. What is informal communication? Explain merits & demerits of informal communication
5. "Effective presentation on any chosen topic calls for effective skills". Elaborate the statement.
6. Explain Do's & Don'ts of a group discussion

PART - C

Answer any TWO out of FOUR

[2x15=30]

1. Discuss the barriers to communication. Explain the way of overcoming the barriers in a successful manner
2. Write a job application letter to the HR manager in response to an advertisement on Naukri.com for the post of Marketing manager
3. Prepare a resume using the following details :
Post: Management trainee - Entry level.
Qualification: Post graduation, Work Exp. - 0-1 year
4. Develop a creative write up on "How to overcome stress during examinations"

4. The following table gives the number of aircraft accidents that occurred during the seven days of the week. Find whether the accidents are uniformly distributed over the week.

Days:	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total
No. of accidents:	14	16	8	12	11	9	14	84



ARKAJAIN
University
Jharkhand

2nd Semester End Term Examination: 2021-22.

Subject : Statistics in Business Decisions

Roll No:

Course : B. Com. (Hons.)

Full Marks : 70

Time : 3 Hours.

Instructions to the Candidates:

- Read the question paper very carefully.
- Start writing from 2nd page onwards; Don't Write On The 1st Page Backside.
- 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 come under Unfair Means and will Result in the Cancellation of the Papers.

PART - A

Multiple Choice Questions

[12x1=12]

- Mean deviation about median is
 - A measure of central tendency
 - A measure of location
 - A measure of dispersion
 - None of the above
- Regression analysis deals with the work of finding
 - Approximate relationship between the two variables of a bivariate data
 - Co-variation of two variables of a bivariate data
 - Correlation between two variables of a bivariate data
 - None of these.
- Which one of the following is not a method of measuring trend in a time series?
 - Semi Average method
 - Simple Average method
 - Moving average method
 - Least Square method
- The conditional probability $P(A/B)$ is given by
 - $P(A \cap B) / P(A)$
 - $P(A \cap B) / P(B)$
 - $P(A \cup B) / P(A)$
 - None of the above

5. The probability that a person will get an electric contract is $\frac{2}{5}$ and the probability that he will not get a plumbing contract is $\frac{4}{7}$. If the probability of getting at least one contract is $\frac{2}{3}$, what is the probability that he will get both?

- a) $\frac{34}{115}$
 - b) $\frac{17}{105}$
 - c) $\frac{51}{115}$
 - d) None of the above
6. The term rank is used in the following case:
- a) Qualitative character
 - b) Quantitative character
 - c) Both the above
 - d) None of these
7. A continuous random variable assumes
- a) Only integral values
 - b) Only fractional values
 - c) Infinitely many values
 - d) None of the above

8. Normal distribution has the following number of parameters:

- a) 1
- b) 2
- c) 3
- d) 4

9. Which one of the following is a partition value?

- a) Mean Deviation from Median
- b) Quartile Deviation
- c) First Quartile
- d) None of the above

10. The lower and upper quartiles of a set of values are 28 and 52 respectively. Then quartile deviation is

- a) 40
- b) 24
- c) 12
- d) None of the above

11. The graphical plotting of any time series is

- a) Usually a straight line
- b) Usually a zigzag curve
- c) Usually a parabola
- d) None of the above

12. In a large sample test, the sample size must be

- a) Larger than 20
- b) Larger than 30
- c) Larger than 10
- d) None of the above

PART - B

Answer any FOUR out of SIX

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

3. Write a note on Scatter Diagram.

[4x7=28]

4. 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

5. Obtain 3-yearly moving average trend for the following time series:

Year: 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019
 Sales : 3502 3445 3555 3636 3625 3688 3675 3690 3712 3698

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

- Urn 1: 7 white and 3 black balls
- Urn 2: 4 white and 6 black balls
- Urn 3: 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.

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

PART - C

Answer any TWO out of FOUR

[2x15=30]

1. Find Standard deviation for the following data:

Age (in years)	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40
No. of persons	6	13	20	27	18	13	8	5

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. 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

a) Determine the value of a.

b) Find $P(X \leq 3)$, $P(X > 3)$ and $P(0 < X < 5)$