

08/12/22

Additional Exam - Sem I -
AFM - I , Dec 2022 -

SEAT NO. _____

CODE:

Duration: 3 hours

Marks: 100

- Instructions :- (1) All questions are compulsory having internal Options.
(2) Figures to the right indicate full marks.
(3) Use of simple calculator is allowed.
(4) Working notes should form part of answers.

Q:1 A) Match the column (any Ten)

10

Column-A		Column-B	
a)	Example of accounting policy	i)	Shown on the liabilities side of the balance sheet
b)	AS 2 defines inventory as	ii)	Intangible asset
c)	Wages paid for installation of machinery	iii)	Raw Material
d)	Outstanding wages appearing in Trial Balance	iv)	Depreciation
e)	Trade mark	v)	Shown on P&L A/C Debit side
f)	For a shirt factory, cloth is	vi)	Deducted from purchase
g)	Hire Purchase Price is always equal to	vii)	Allocated in purchase ratio
h)	Electricity charges	viii)	Building
i)	Purchase Return	ix)	Contingent Liability
j)	Carriage inward in departmental Account	x)	WIP in Construction Contract
k)	Tangible Asset	xi)	Finished goods produced
l)	Excluded from the scope of A-2	xii)	Cash Price plus interest
		xiii)	Capital Expenditure

Q:1 B) State whether following statements are True or False (Any Ten)

10

- 1) The purpose of AS 1 is to recognize revenue.
- 2) According to AS 2 cost of inventory should exclude Labour cost.
- 3) AS 9 does not deal with revenue arising from Sale of goods.
- 4) Discount allowed appearing in the Trial balance are shown On the debit side of P & L A/c.
- 5) Closing stock of raw material appearing in the Trial Balance is shown on the assets side of the balance sheet
- 6) Sale of scrap appearing in the Trial balance are shown On the credit side of Manufacturing A/c
- 7) Accounting Standard in India are issued by Accounting Standard Board of ICAI.
- 8) Interest on loan is recorded in General P & L Account
- 9) Goods transferred from department X to department Y will be recorded on credit side of Department X
- 10) Cash price does not include any element of interest.
- 11) FIFO mean Finished Stock in Finished Stock out.
- 12) Capital expenditure is recurring expenditure.

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Q:2 Answer (a) or (b) of the following:

20

a) The trial balance of Mr. Deepak as on 31st March, 2022 was as follows:

Debit Balance	Rs.	Credit Balance	Credit Rs.
Opening stock of Raw Materials	23,000	Sundry Creditors	17,000
Opening stock of Work-In-Progress	10,000	Bills Payable	8,500
Opening stock of Finished Goods	15,500	Sale Of Scrap	1,500
Sundry Debtors	27,000	Commission	400
Carriage Expenses (50% On Sale)	2,000	Provision For Doubtful Debts	1,600
Bills Receivable	16,000	Deepak's Capital Accounts	1,00,000
Wages	12,000	Sales	2,00,000
Salaries	10,000		
Repairs to Plant	1,200		
Repairs to Office Furniture	600		
Purchases of Raw materials	1,00,000		
Cash at Bank	2,300		
Plant and Machinery	90,000		
Office Furniture	9,000		
Lighting Expenses	5,000		
Factory Insurance	1,800		
General Expenses	2,000		
Custom duty on imports	1,600		
	3,29,000		3,29,000

Following additional information is provided to you:

- 1) Closing stock as on 31st March, 2022 was: Raw materials Rs. 15,800, Finished goods Rs. 18,200, Semi-finished goods Rs. 7,000.
- 2) Salaries Rs. 2,000 and wages Rs.2,000 for 31st March, 2022 were paid in January 2023.
- 3) Lighting expenses were outstanding Rs. 600 whereas factory insurance includes office insurance of Rs.500 and prepaid insurance of Rs. 500.
- 4) 25% of the lighting expenses is to be charged to office premises and the remaining amount is to be charged to factory.
- 5) Depreciation is to be written off on machinery at 10% p.a. and on furniture at 5% p.a.
- 6) Provision for doubtful debts is to be maintained at 10%.
- 7) Materials costing Rs. 25,000 and finished goods costing Rs. 20,000 was destroyed by fire. The insurance company admitted the claim to the extent of Rs. 7,500 for finished goods and Rs. 10,000 for materials by the balance sheet date.

You are required to prepare manufacturing account, trading account and profit and loss account for the year ended 31st March, 2022 and balance sheet as on that date.

OR

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- b) i) State with reasons whether the following transactions are Capital or Revenue (two marks each) 10
1. Constructed Office building costing Rs.2,00,00,000 and spent Rs.10,00,000 for its interior decoration.
 2. Sold old Plant of Rs.2,00,000 for Rs.1,70,000
 3. Goods costing Rs.15,000 sold at a profit of Rs.10,000.
 4. Salary paid to office staff Rs.50,000
 5. Replacing old hard disk of computer with new hard disc Rs.15,000
- ii) From the following balances of Mr. Lakhamichand, You are required to prepare manufacturing account and trading account for the year-ended 31-03-2022 10

Debit Balance	Rs.	Credit Balance	Rs.
Cash in Hand	1,000	Capital Account	41,860
Machinery	30,000	Sales	1,38,780
Drawings	2,500	Sale of scrap	560
Factory, Power and Fuel	450	Sundry creditors	8,800
Office salaries	6,225		
Carriage outwards	500		
Manufacturing wages	9,300		
Furniture and fixture	3,400		
Opening Stock:			
Finished goods	4,000		
Work-in-progress	7,250		
Raw Materials	2,800		
Carriage-inwards	1,000		
Rent (factory 3/4)	4,000		
Sundry debtors	21,600		
Advertisement	775		
Printing & Stationery	1,200		
Factory Insurance	1,280		
Purchase of Raw Material	82,950		
Balance at Bank	8,530		
Discount allowed	610		
Miscellaneous Exp.	630		

Closing stock finished goods 6,500/-, Raw materials Rs. 750/- and Work-in-progress Rs. 4,750/-.

Furniture and Machinery are to be depreciated by 10%. 40% of Furniture is used in the factory.

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Q:3 Answer (a) or (b) of the following:

- a) The Trading and Profit and Loss Account of Sony Trading for the year ending 31st March, 2022 is as under.

Particulars	Rs.	Particulars	Rs.
Purchase :		Sales:	
Washing Machines (R)	6,40,000	Washing Machines (R)	7,00,000
Televisions (S)	5,00,000	Televisions (S)	5,60,000
Spare parts for servicing and repair jobs (T)	3,20,000	servicing and repair jobs (T)	1,40,000
Salaries and wages	1,92,000	Stock on 31 st March 2010	
Rent	43,200	Washing Machines (R)	2,40,400
Sundry Expenses	44,000	Televisions (S)	81,200
Profit	1,60,800	servicing and repair jobs (T)	1,78,400
	19,00,000		19,00,000

Prepare departmental Account for each of the three departments R, S, and T after taking into consideration the following:

- 1) Washing Machines and Televisions are sold in show room. Servicing and repairs are carried out at the work shop.
- 2) Salaries and wages comprise as follows:
Showroom 3/4th, Workshop 1/4th
It was decided to allocate the showroom salaries and wages in the ratio 1:2 between department R and S.
- 3) The workshop rent is Rs. 2,000 per month. The rent of showroom is to be divided equally between R and S.
- 4) Sundry expenses are to be allocated on the basis of turnover of each department.

OR

- b) Calculate the value of stock by applying: (a) FIFO method to product P (b) Weighted average method to product Q.

	P	Q
Stock (kgs) on 1-3-2022	4000 @ Rs. 28	8000 @ Rs. 13
Purchases(kgs)		
On 13-3-2022	3600 @ Rs. 27	5000 @ Rs. 14
On 22-3-2022	3400 @ Rs. 25	4,000 @ Rs. 18
Sales (kgs)		
On 8-3-2022	2600	5000
On 16-3-2022	2800	4,000
On 20-3-2022	1400	2600
On 27-3-2022	2200	3400

On 31-03-2022 when stock physically verified a shortage of one units was noticed in product P.

CODE:**Duration: 3 hours****Marks: 100****Q:4 Answer (a) or (b) of the following:****20**

- a) M/s Vijay Brothers purchased machinery from HMT Ltd. On hire purchase system on 1st April, 2020. The cash price of the machinery was Rs.1,40,000. Rs.20,000 was paid on signing the agreement & the balance in annual installment of Rs.40,000 plus interest at 12% per annum. Ajay Brothers charged depreciation at 10% per annum on written down value. Prepare machinery A/c, HMT Ltd A/c, Interest A/c and Depreciation A/c in the books of M/s Vijay Brothers for the year 2020-21 and 2021-22.

OR

- b) M/s Sanjay Brothers purchased machinery from TK Ltd. On hire purchase system on 1st April, 2020. The cash price of the machinery was Rs.2,80,000. Rs.40,000 were paid on signing the agreement & the balance in annual installment of Rs.80,000 plus interest at 12% per annum. Ajay Brothers charged depreciation at 20% per annum on written down value. Pass necessary journal entries in the books of TK Ltd for the year 2020-21 and 2021-22.

Q:5 Answer (a) or (b) of the following:**20****(a) Answer the following:(Ten marks each)**

- i) Explain FIFO Method of valuation of Inventory. Discuss its advantages and limitations.
ii) Distinguish between Hire purchase and Installment system

OR**(b) Write short notes:(any four)(Five marks each)**

- i) Accounting Standard 9
ii) Departmental Accounting
iii) Items excluded in AS-2
iv) Distinguish between Manufacturing Account and Trading Account
v) Accounting treatment in the books of Hire-Vendor
vi) Capital and Revenue expenditure

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CODE:

Duration: 3 hours

Marks: 100

Instructions :- (1) All questions are compulsory having internal options.
(2) Figures to the right indicate full marks.

- Q:1**
- A) Explain the following terms in 2-3 sentences: (Any 05) 10**
- | | |
|-----------------|---------------------------|
| a) Encoding | b) Feedback |
| c) Blog | d) Diagonal Communication |
| e) You Attitude | f) Kinesics |
| g) Self-Image | h) Vertical Communication |
- B) Match the following: 05**
- | | |
|-----------------|-----------------------------|
| 1 Haptics | a Anxiety |
| 2 Source | b Communication by touch |
| 2 Face touching | c Use of Technical language |
| 4 Moodle | d Ideation |
| 5 Jargon | e E-learning |
- C) Fill in the blanks choosing the best alternative from the ones given below: 05**
- i) The process of _____ involves deciphering the message sent by sender.
- | | |
|-------------|-------------|
| a) Channel | b) Decoding |
| c) Encoding | d) Barrier |
- ii) Communication should result in a/an _____ response.
- | | |
|------------------|---------------|
| a) Lengthy | b) Short |
| c) understanding | d) Unilateral |
- iii) _____ follows a 'store and forward' mechanism.
- | | |
|-------------|------------|
| a) WhatsApp | b) Twitter |
| c) Yahoo | d) Ubuntu |
- iv) In _____ chain, the information passes from one person to another and so on.
- | | |
|------------|------------------|
| a) Gossip | b) Single strand |
| c) Cluster | d) Peripheral |
- v) _____ reveals the identity of the sender.
- | | |
|-----------------|-------------------|
| a) Salutation | b) Inside address |
| c) Subject line | d) Head address |
- Q:2**
- Write short notes on: (Any four) 20**
- Upward Communication
 - Gestures
 - Handshake Etiquettes
 - Twitter
 - Characteristics of Verbal Communication
 - Communication as a two-way process

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Additional Exam - Sem I
B.C - Dec 2022

SEAT NO. _____

CODE:

Duration: 3 hours

Marks: 100

- Q:3 Answer the following questions: (Any two) 20**
- What are the physical barriers to communication? Suggest ways to overcome them.
 - Define listening. Explain the different types of listening.
 - What are the business ethics? Explain the significance of business ethics in contemporary world.
- Q:4 Draft a reply in response to the following advertisement 10**
- A reputed accountancy firm requires junior account. Interested commerce graduates familiar with the advanced use of tally and additional computer processing, may send their application with resume within 15 days from the date of advertisement to: P.O. Box. 1918, The Urban Express, Mumbai-400001
- Q:5 Draft the following letters: (Any four) 20**
- You wish to take admission for a postgraduate course in Financial Accounting from an Australian University. Draft the statement of Purpose.
 - Draft a letter of recommendation for your junior who is applying for the post of senior marketing manager at Manas Textiles Limited.
 - You have received an offer for the post of secretary from Connections Pvt. Limited, Ahmedabad. Draft your letter of acceptance of the job offer.
 - Mr. Abhi Ghumare wishes to relocate to Auragabad, Maharashtra for personal reasons. Draft his letter of resignation.
 - Draft an appreciation letter for your junior, Ms.Nitu Chandra for displaying exemplary efforts in increasing the sales of your company's new toothpaste brand.
- Q:6 A) Write a paragraph in about 150 words: (Any one) 05**
- Health is wealth
 - Financial literacy
- B) Read the following situation carefully and answer the questions given below:**
- Mr. Chachu Dhime, the newly appointed Accounting Manager at Kasturi Enterprises Ltd. wanted some data about last months' sales of the products of his firm. He called a junior supervisor, Mr. Guddu Shahane, from the sales department and asked him to submit the information urgently. Unable to decide how to respond to this demand of a senior of another department, the supervisor couldn't provide the requisite information.
- Identify and explain the problem in the channel of communication that Mr. Chachu Dhime practiced.
 - How can this situation be handled for smooth transfer of information? 02

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Additional Exam - Dec 2022

Bus. Eco - I / F.Y.B. Com / Sem I

SEAT NO. _____

CODE:

Duration: 3 hours

Marks: 100

Instructions:- (1) All questions are compulsory having internal options.
(2) Figures to the right indicate full marks.

Q:1 A) Choose the correct answer from the options given below (Any 10)

10

- 1) Managerial Economics is also known as _____.
 - a) Micro economics
 - b) Macro economics
 - c) Indian economics
 - d) Business economics
- 2) Opportunity cost is defined as _____.
 - a) Sacrifice of the next best alternative
 - b) Selling cost
 - c) Cost of production
 - d) Overhead cost
- 3) _____ involves a cost-benefits comparison of various business activities.
 - a) Cost analysis
 - b) Demand analysis
 - c) Supply analysis
 - d) Production analysis
- 4) The law of demand curve illustrated by a demand curve that is _____.
 - a) Upward sloping
 - b) Vertical straight line
 - c) Downward sloping
 - d) Horizontal straight line
- 5) Under oligopoly the firm faces a _____ demand curve.
 - a) Horizontal
 - b) Downward sloping
 - c) vertical
 - d) kinked
- 6) In case of luxury goods elasticity of demand is _____.
 - a) Elastic
 - b) Inelastic
 - c) Perfectly elastic
 - d) Unitary
- 7) Law of variable proportion operate in _____.
 - a) Medium term
 - b) Short term
 - c) Medium and Long term
 - d) Long term
- 8) The graph consisting of more than one Iso-quant is known as:
 - a) Law of variable proportion
 - b) Law of Demand
 - c) Right angle iso quant
 - d) Iso quant map
- 9) _____ refers to advantages enjoyed by the firm with expands its production.
 - a) Internal economies
 - b) External economies
 - c) Internal diseconomies
 - d) External diseconomies
- 10) When MC cuts AC _____.
 - a) At the middle point of AC
 - b) At the lowest point of AC
 - c) AC remains constant
 - d) At the top point of AC
- 11) _____ analysis compares total revenue with total cost.
 - a) Break-even analysis
 - b) Point analysis
 - c) Pay-back period
 - d) Cost analysis
- 12) The concept learning curve given by _____.
 - a) J.R.Hicks
 - b) Alfred Marshall
 - c) K.J.Arrow
 - d) Adam Smith

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- Q:1 B) State whether following statements are True or False (Any 10) 10
- 1) Economics often uses the first letter of the item to represent variable.
 - 2) Average is per unit value.
 - 3) With decrease in supply, demand remaining unchanged, the equilibrium price falls.
 - 4) Total outlay method is also known as total expenditure method.
 - 5) If elasticity of demand greater than one, the marginal revenue is zero.
 - 6) Demand forecasting done by entire industry is known as micro level demand forecasting.
 - 7) $MC = TR_n - TR_{n-1}$.
 - 8) There is zero substitutability of factors of production in fixed proportion production function.
 - 9) Incremental cost refers to the cost that has already been incurred and which cannot be recovered.
 - 10) At Break-even point $TR > TC$.
 - 11) When AC curve falling MC curve lie below it.
 - 12) When total revenue is less than total cost the firm incur loss.

Q:2 Attempt A and B or C and D:

- A) Explain the determination of equilibrium price using the concept of Market demand and Market supply. 7
- B) Given the following data, calculate TR, AR and MR. Also identify the market structure and state the relationship between TR, AR, and MR. 8

Output (Units)	1	2	3	4	5	6	7
Price (Rs.)	30	30	30	30	30	30	30

OR

- C) What is Business economics and explain basic tools of business economics? 7
- D) Given the following demand function $Q_{dx} = 100 - 0.45 P_x$ what is your forecast for Q_{dx} when $P_x = 10, 20, 30, 40, 50, 60, 70, 80$. 8

Q:3 Attempt A and B or C and D:

- A) Explain various determinants of demand in detail. 7
- B) What are the steps of demand forecasting? 8
- OR
- C) Discuss the types of demand forecasting. 7
- D) What is Income elasticity of demand and explain its degrees in detail? 8

Q:4 Attempt A and B or C and D:

- A) Explain the various types of isoquant along with appropriate diagram. 7
- B) Discuss the internal and external economies of scale. 8
- OR
- C) Write an explanatory note on expansion path. 7
- D) The following table shows total product (TP) of a firm due to increase in labour inputs combination with a fixed inputs of capital: 8

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Output (Units)	1	2	3	4	5	6	7	8	9	10
Total products (Units)	20	50	90	120	135	144	147	148	148	145

- Calculate AP and MP
- Name and Mark the three stages of law of variable proportion in the table
- In which stage will a rational firm operate? Justify your answer

Q:5 Attempt A and B or C and D:

- Elaborate various concepts of cost. 7
- Given TFC as Rs.100. Calculate TVC, AC, AVC, AFC, MC from the information given in the following 8

Output (units)	0	1	2	3	4	5	6
Total cost Rs.	100	120	125	140	150	180	220

OR

- Elaborate the concept of Break-even point with appropriate diagram. 7
- For a hypothetical firm, if price of product is Rs 80/-, TFC is 5000 and AVC is Rs 30/- then : 8
 - Calculate breakeven output for this firm.
 - At the original TFC and AVC, how does breakeven quantity change if price rises Rs. 130 /- ?
 - At the original price and AVC, how does breakeven quantity change if TFC rises to Rs.6000 /-?
 - At the original price and TFC, how does breakeven quantity change if AVC rises to Rs.60 /-?

Q:6 Attempt A and B OR Write short notes on any four:

- Explain various significance of Demand forecasting.
- Discuss various Properties of iso quant. 10

OR

Write Short notes on any four of the following : 10

- Consumer survey method 20
- Use of marginal analysis
- Economies of scope
- Basic concepts in Business Economics
- Diseconomies of scale
- Applications of break-even point

-----X-----X-----X-----

Additional Exam - Sem I
Commerce - Dec 2022

07/12/22

SEAT NO. _____

CODE: _____

Duration: 3 hours

Marks: 100

Instructions :- (1) All questions are compulsory having internal options.
(2) Figures to the right indicate full marks.

- Q:1 A) Choose the correct answer from the options given below (Any 10) 10
- 1) _____ blocks working capital of business firm.
 - a) Over stocking
 - b) Zero inventory
 - c) Capital Stock
 - d) Under Inventory
 - 2) The _____ objectives are called as three fold objectives.
 - a) Human
 - b) Organic
 - c) Economic
 - d) Social
 - 3) _____ refer to regional economic integration of nations for mutual benefits
 - a) Liberalisation
 - b) Trading Blocs
 - c) Retrenchment
 - d) Privatisation
 - 4) Business environment is _____ in nature
 - a) Systematic
 - b) Static
 - c) Dynamic
 - d) Socialistic
 - 5) Scheduling of the project is an important element of _____
 - a) Project Control
 - b) Project Planning
 - c) Project Stages
 - d) Project Implementation
 - 6) The _____ frames corporate strategy of a business unit
 - a) Departmental Heads
 - b) Lower level management
 - c) Top Management
 - d) Divisional Heads
 - 7) In 1960, _____ developed the concept of Locus of Control
 - a) Joseph Schumpeter
 - b) Julian Rotter
 - c) Jeremy Brown
 - d) James Florence
 - 8) The primary role of NISIET is to promote _____ enterprises in India
 - a) Small
 - b) Large
 - c) Medium
 - d) Remote
 - 9) Under _____ strategy, firm pursues growth within the existing business
 - a) Stability
 - b) Intensification
 - c) Combination
 - d) Modernisation
 - 10) _____ includes methods, techniques and approaches adopted for production of goods and services and its distribution
 - a) Economic Environment
 - b) Legal Environment
 - c) Technological Environment
 - d) Natural Environment
 - 11) The Credit Linked Subsidy scheme provides capital subsidy for the purchase of _____
 - a) Capital
 - b) Technology Upgradation
 - c) Factory
 - d) Raw Material
 - 12) Problem of finance is one of the _____ related problems of women entrepreneur
 - a) Gender
 - b) Business
 - c) Social
 - d) Psychological

CODE:

Duration: 3 hours

Marks: 100

- Q:1 B) State whether following statements are True or False (Any 10)** 10
- 1) Human resource development is concerned with the analysis of market
 - 2) Business broadly involves industry and commerce
 - 3) ASEAN consists of nations belonging to South Asia
 - 4) Environment is an integral part of business
 - 5) The business planning process starts with formulating alternate strategies
 - 6) The business describes the future direction of business
 - 7) Entrepreneur place more emphasis on formalities rather than results
 - 8) Non – monetary factor includes higher salaries, bonus, etc.
 - 9) Purchase and storekeeping is an important element of inventory management
 - 10) The international business environment is influenced by international forums like WTO and UNCTAO
 - 11) There is no need to conduct period review of performance
 - 12) Entrepreneurship is the process concerned with creating something new
- Q:2 Answer any two of the following:** 15
- a) Describe the scope of business
 - b) Discuss in brief the retrenchment strategies
 - c) Explain the impact of liberalization on business and economy
- Q:3 Answer any two of the following:** 15
- a) Explain the components of external environment
 - b) What are the measures to improve educational standards?
 - c) Discuss the functions of WTO
- Q:4 Answer any two of the following:** 15
- a) Discuss the concept and stages of business unit promotion
 - b) Describe the factors influencing location of business
 - c) Explain the various acts influencing business
- Q:5 Answer any two of the following:** 15
- a) Discuss in brief the features of entrepreneurship
 - b) Explain entrepreneurship training and development centers
 - c) Describe in brief the incentives offered to entrepreneurs
- Q:6 Write Short Notes on (Any 4)** 20
- a) Impact of privatisation
 - b) Mergers and Amalgamation
 - c) Special achievements of North American Free Trade Agreement
 - d) Reasons for conducting feasibility study
 - e) Distinguish between project report and feasibility report
 - f) Competencies of an entrepreneur
- X-----X-----X-----

10/12/22

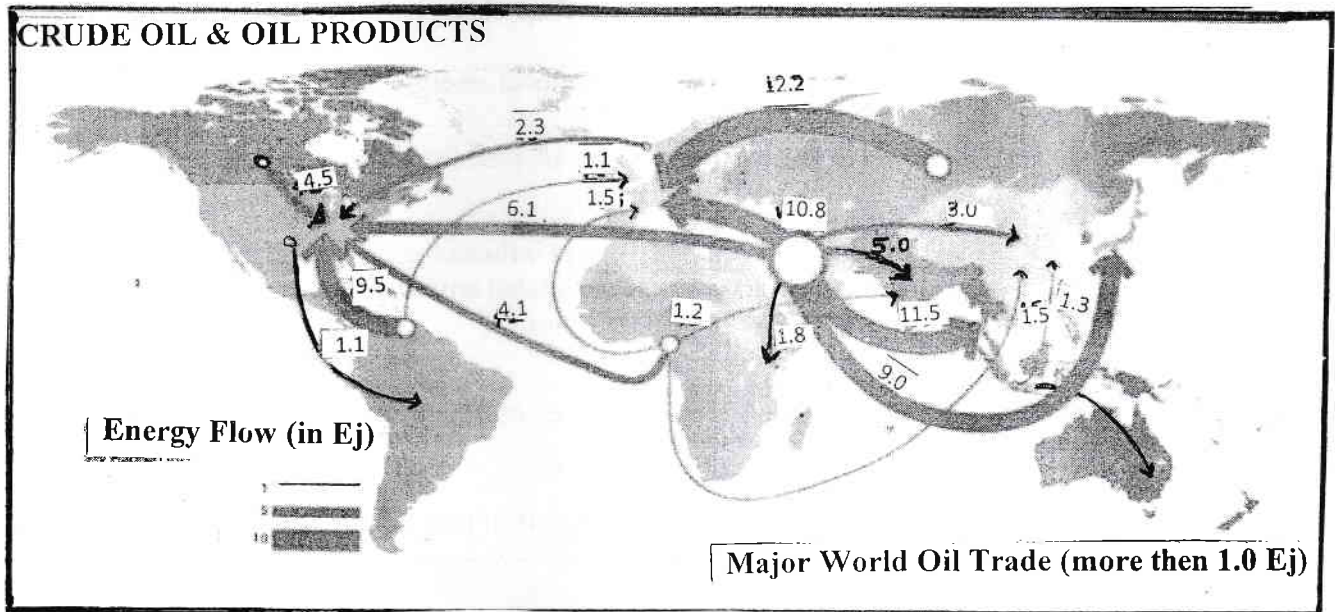
CODE:

Duration: 3 hours

Marks: 100

- Instructions :- (1) All questions are compulsory
(2) Figures to the right indicate full marks.
(3) Draw neat diagrams and figures wherever applicable
(4) Attach the Map supplement to the main answer book.

Q:1 A) Study the World Map provided to you and give answers to the questions given on it 10



- 1) Identify the technique used in the given world map 1
- 2) What is the theme of the map? 1
- 3) Discuss the scale used in the map 1
- 4) Identify the continent having the highest imports of Oil and how much is it? 2
- 5) Identify the region having the highest exports of Oil and how much is it? 2
- 6) How much of Oil is imported by Japan? 1
- 7) Interpret the given map 2

Q:1 B) Mark and Name the following features in the Outline World Map provided to you 10

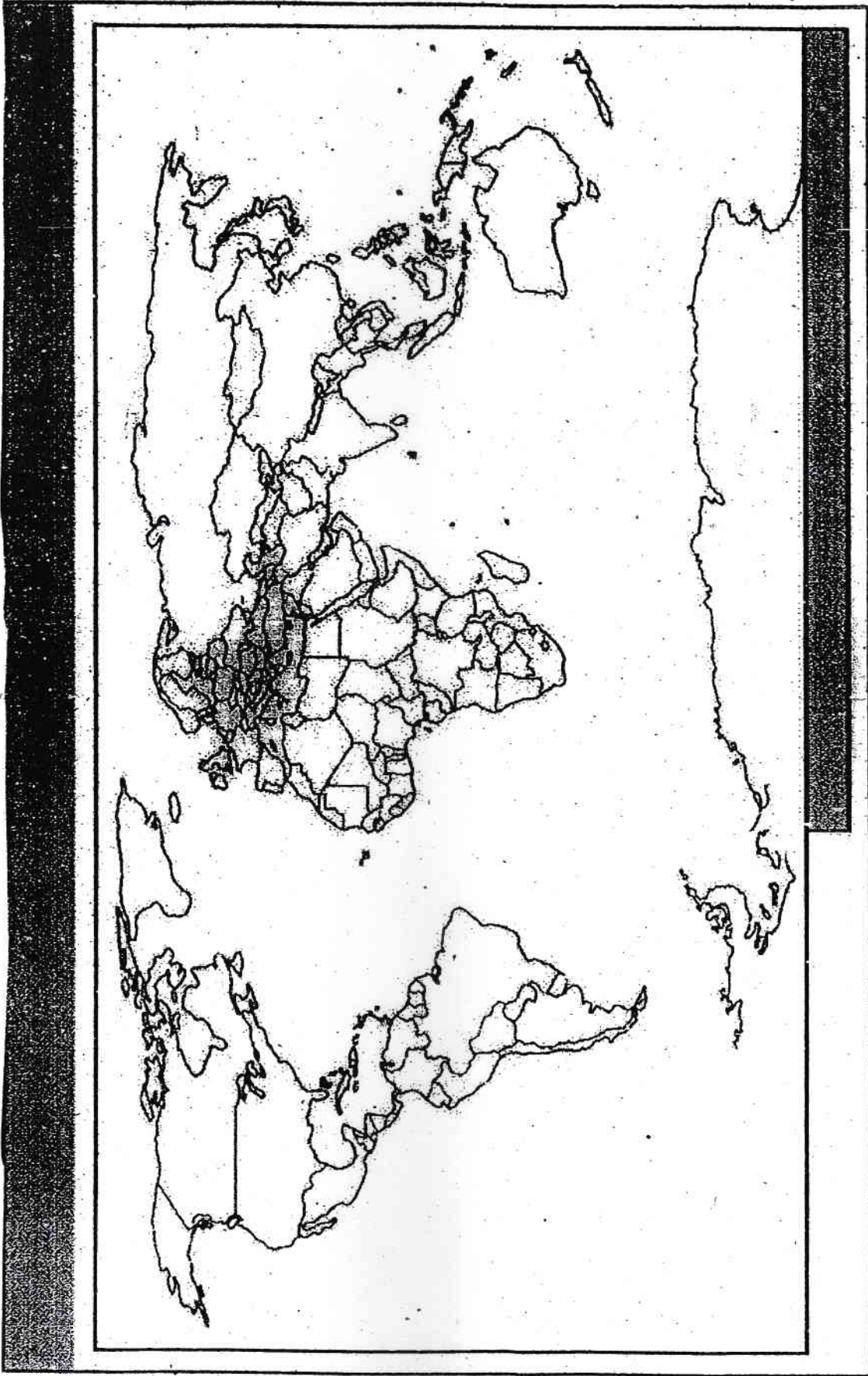
- 1) A smart city in the European continent
- 2) The country having the richest Natural Gas Deposits in the world
- 3) A major desert in South America
- 4) An African island with Biodiversity hotspot
- 5) The longest mountain range in the world
- 6) A major Nuclear Accident site in the world
- 7) The largest producer of Tidal Energy
- 8) The longest river in the world
- 9) A country with the highest deforestation rate in the world
- 10) A country having the Highest HDI in the Southern Hemisphere

CODE:

Duration: 3 hours

Marks: 100

- Q:2 Answer any two of the following:** 20
- a) Elaborate on the Abiotic Components of the environment. 10
 - b) Discuss on the Importance and Scope of Environmental Studies. 10
 - c) Write a brief note on Food Chains and Food Webs. 10
- Q:3 Answer any two of the following:** 20
- a) What are Natural Resources and how are they classified? Discuss briefly on Nuclear Energy as a form of energy resource. 10
 - b) Identify the different types of Non-Conventional energy and elaborate on any two in detail. 10
 - c) Write a brief note on the methods that can be adopted for Management of Forest. 10
- Q:4 Answer any two of the following:** 20
- a) Discuss the geographical and economic factors influencing density of population. 10
 - b) Explain the impact of human pressure on the Global environment. 10
 - c) Write a note on HDI and World Happiness Index. 10
- Q:5 Answer any two of the following:** 20
- a) What is urbanization? Explain the major causes of urbanization leading to environmental pollution. 10
 - b) Explain Burgess land use model in detail. 10
 - c) What is migration? Describe in detail push factors of migration. 10
- X-----X-----X-----



(9)
Tg

SEAT NO. OF CANDIDATE :-

SUPERVISOR'S SIGNATURE :-

12/12/22

SEAT NO. _____

CODE:

Duration: 2.30 hours

Marks: 75

*Instructions :- (1) All questions are compulsory having internal options.
(2) Figures to the right indicate full marks.*

Q:1 A) Choose the correct answer from the options given below (Any Eight)

08

- 1) _____ is the belief in the spirit of dead.
 - a) Animism`
 - b) Totemism
 - c) Fetishism
- 2) Shwetambar and _____ are two sects of Jainism
 - a) Shia
 - b) Sunni
 - c) Digambar
- 3) Deficiency of vitamin _____ leads to night blindness.
 - a) B
 - b) A
 - c) D
- 4) _____ is muscle destroying disease.
 - a) Dystrophy
 - b) Epilepsy
 - c) Spina Bifida
- 5) _____ leads to the conflicts between upper castes and lower castes.
 - a) Linguism
 - b) Communalism
 - c) Casteism
- 6) Untouchability is abolished under article _____ in Indian Constitution.
 - a) 17
 - b) 21
 - c) 18
- 7) _____ arises out of religious fundamentalism.
 - a) Regionalism
 - b) Communalism
 - c) Nationalism
- 8) There are _____ schedules in the Indian Constitution.
 - a) 22
 - b) 12
 - c) 24
- 9) The main aim of every political party is to promote _____.
 - a) Linguism
 - b) Regionalism
 - c) National interest
- 10) The smaller cities are looked after by _____.
 - a) Municipal corporation
 - b) Municipal Council
 - c) BMC

CODE:

Duration: 2.30 hours

Marks: 75

- Q:1 B) State whether following statements are True or False (Any Seven)** **07**
- 1) India is the land where many religions are practiced.
 - 2) Christian religion has 10 commandments of the lord.
 - 3) Acquired deafness may be caused due to accidents or noise pollution.
 - 4) Bride burning is a social violence against women.
 - 5) Communalism is opposed to the secularism.
 - 6) Casteism is the integral part of Judaism.
 - 7) Economic justice stands for removal of poverty.
 - 8) Right to vote can be enjoyed after 18 years of age as per Indian Constitution.
 - 9) 73rd amendment of Indian constitution refers to urban local bodies.
 - 10) 1/3rd seats are reserved for women in Gram Panchayat.
- Q:2** a) Explain the services available to the handicapped people. **15**
OR
 b) Write a detailed note on portrayal of women in mass media.
- Q:3** a) What is regionalism? Suggest the measures to stop regional conflicts in India with suitable example. **15**
OR
 b) What are inter group conflicts? Explain the measures to resolve inter- group conflicts.
- Q:4** a) Discuss in detail importance of tolerance, peace and communal harmony in detail. **15**
OR
 b) Write a detailed note on Fundamental duties of Indian citizen.
- Q:5** Elaborate the concept of rural local self-government. **15**
OR
Write Short Notes on (Any 3)
- a) Diversity as difference
 - b) Socially handicapped
 - c) Three language formula
 - d) Types of emergencies
 - e) 73th amendment of Indian Constitution

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F.Y.B.COM. SEM. I Additional Exam.
Dec. 2022 Subj. Maths & Stats - I
Date 05.12.22 SEAT NO. _____

CODE:

Duration: 3 hours

Marks: 100

- Instructions :- (1) All five questions are compulsory.
(2) Each question carries 20 marks and each sub question carries 5 marks.
(3) Use of simple non-programmable calculator is allowed,
(4) Graph papers will be provided on request

Q:1 Answer any four of the following:

- a) Mr.A invested Rs.25,080/- in two type of shares, partly in a number of 10% Rs.100/- shares at Rs.140/- and the remaining in some 16% Rs.100/- shares at Rs.180/-.His dividend incomes from the two type of shares were in the ratio 17:16. Find the amounts invested in the two type of shares. 5
- b) Mr. B bought some 10% Rs. 100/- shares at Rs. 200/- and after getting the dividend, sold them at Rs. 250/-. The brokerage was 0.25% on purchase and 0.20% on sale. Find the rate of return on investment 5
- c) The N.A.V. of a mutual fund scheme changed from Rs.40.28 to Rs.56.04 in 20 months. Find the absolute change in the N.A.V., percentage change in the N.A.V. and the annualized change in the N.A.V. 5
- d) Mrs. C invested Rs. 10,000/- in a mutual fund scheme at an N.A.V. of Rs.29.0426. Due to entry load, the value of her units on that day stood at Rs. Rs,9,779.98. Find the no. of units purchased and also find the entry load percentage, rounded up to 2 decimal places. The number of units were rounded up to 3 decimal places. 5
- e) An investor joined the S.I.P. scheme for a mutual fund under which he would invest Rs.10,000/- each month for 5 months. If the N.A.V.'s for each month are Rs.42.6, Rs.45, Rs.47, Rs.47.5 & Rs.48.5 respectively. Find the average acquisition cost per unit up to 2 decimal places. The number of units were rounded up to 3 decimal places. 5

Q:2 Answer any four of the following:

- a) How many four-digit numbers can be formed out of the digits 1, 2,3,4,7 & 8 if no digits are repeated in any number? How many of these will be greater than 4,000? 5
- b) Find the value of n, if four times the number of permutations of n number of things taken 3 at a time is equal to 5 times the number of permutations of (n-1) things taken 3 at a time. 5
- c) There are 7 men and 3 ladies. Find the number of ways in which a committee of 6 can be formed from these, if the committee is to include at least 2 ladies. 5
- d) The daily requirement of vitamin A & B per person is at least 5 units & 8 units respectively. Food I contain 1 unit of vitamin A & 2 units of vitamin B per serving respectively. Food II contains 1 unit of vitamin A & 3 units of vitamin B per serving respectively. The cost of Food I & Food II is Rs.50/- & Rs.60/- per serving respectively, formulate above problem as a L.P.P. to minimize the cost. 5
- e) Solve the following L.P.P. graphically 5
- Maximize $Z=4x+6y$
Subject to, $2x+3y \leq 12$;
 $2x+y \leq 8$;
 $x \geq 0$; $y \geq 0$.

CODE:

Duration: 3 hours

Marks: 100

Q:3 Answer any four of the following:

- a) Define Measure of Dispersion and write requisites of good Measures of Dispersion? 5
- b) Draw less than ogive curve for the following distribution and hence locate the Median graphically 5

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	15	17	19	21	16	10

- c) Calculate Second Quartile and Third Deciles for the following distribution: 5

Class Interval	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	11	15	20	27	14	12	10

- d) Calculate the Arithmetic Mean and Mode of the following frequency distribution 5

Observations	3	9	15	21	27	33	39
Frequency	8	10	15	17	14	11	7

- e) Calculate standard deviation for the following data. (Correct up to two decimal places) 5

Marks	2-4	4-6	6-8	8-10	10-12	12-14
No.of students	10	20	40	50	30	10

Q:4 Answer any four of the following:

- a) Explain the term Probability with its important properties. 5
- b) A ticket is drawn at random from 35 tickets numbered from 1 to 35. Find the probability that the number on the ticket drawn is (i) divisible by 5, (ii) divisible by 7, (iii) divisible by 5 or 7. 5
- c) In a group of 120 students, 80 passed in Accounts, 40 passed in Economics and 30 passed in both the subjects. Find the probability that a student selected at random who passed in: i) at least one subject, ii) only in one subject. 5
- d) If A and B are any two events of sample space S and $P(A) = 0.3$, $P(B) = 0.5$ and $P(A/B) = 0.15$, then find i) $P(\bar{B})$, ii) $P(A \cap B)$, iii) $P(A \cup B)$ 5

CODE:

Duration: 3 hours

Marks: 100

- e) For the following probability distribution, find the value of k & then find $E(x)$ & $V(x)$. 5

x	10	20	30	40	50
$P(x)$	0.5	0.1	k	0.2	0.1

Q:5 Answer any four of the following:

- a) Explain the Minimax Regret Criterion in decision making. 5
 b) From the following pay off table, determine the best possible act by using (i) Maximin criterion, (ii) Laplace criterion. 5

Event \ Act	E_1	E_2	E_3
A_1	110	190	140
A_2	140	120	151
A_3	150	170	160

- c) The following is demand distribution of a certain product 5

No. of unit demanded	2	4	6
Probability	0.25	0.45	0.3

The product is sold at Rs. 30/- per unit with cost price Rs. 20/- per unit. Prepare a payoff table. The unit not sold is wasted.

- d) From the given pay off table, find best course of action using Expected Opportunity Loss (EOL) criterion. 5

States of Nature	Course of action		Probability
	A1	A2	
S1	50	100	0.5
S2	60	80	0.3
S3	70	40	0.2

- e) Draw decision tree for the following pay off table & determine the best possible act from it. 5

Course of action	States of Nature		
	S1	S2	S3
A1	50	30	90
A2	40	10	80
A3	70	50	20
Probability	0.4	0.3	0.3

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