[1]          SEAT NO._____

CODE:          Duration: 3 hours          Marks: 100

*Instructions :- (1) Strictly avoid resorting to any unfair means during the Examination.*
*(2) Figures in brackets to the right indicate full marks.*
*(3) Working Notes should form part of your answer.*
*(4) All five questions are compulsory although there are internal options in case of question 2 to 5.*
*(5) Use of Simple Calculator is allowed.*

**Q:1  A]  Choose the most appropriate answer from the given options and rewrite the sentences.  10 (Any 10 out of 12)**

1. Accounting Standard 1 is _____.
   a) Original                   b) Recommendatory
   c) Mandatory                  d) Optional

2. The last instalment in hire purchase includes _____.
   a) Cash Price Only            b) Interest Only
   c) Cash Price and Interest    d) None of the above

3. Following is not allocated in the ratio of number of employees _____.
   a) Bonus                      b) Salaries
   c) Rent                       d) Staff Welfare Expenses

4. Income received in advance is shown on _____.
   a) Liability Side             b) Asset Side
   c) Debit Side of Profit and Loss Account    d) None of the above

5. Revenue from service is recognized when _____.
   a) Service is rendered        b) Service is to be rendered
   c) Contract of service is made    d) None of the above

6. Took Loan from SBI Rs.5,00,000/- is a _____.
   a) Revenue Receipt            b) Capital Expenditure
   c) Capital Receipt            d) Revenue Expenditure

7. The system in which fluctuation in prices are averaged out _____.
   a) Weighted Average Method    b) FIFO Method
   c) LIFO Method                d) Retail Cost

8. The feature of Hire Purchase is _____.
   a) Instalment includes Principal only    b) User ultimately becomes the owner
   c) User does not pay any interest    d) None of the above

9. Items of expenses not connected with any department are _____.
   a) Charged to departments on the basis of total sales
   b) Charged to the General Profit and Loss A/c
   c) Charged to departments on the basis of Fixed Assets employed
   d) Charged to departments on the basis of area shared between departments

10. Cost of removal of stock from one place to another place _____.
    a) Revenue Receipt           b) Capital Receipt
    c) Revenue Expenditure       d) Capital Expenditure

11. Under _____ method, the goods sold are the goods that were purchased first.
   a) FIFO                                      b) LIFO
   c) Weighted Average                          d) Standard Cost

12. As per AS-1, disclosure of accounting policies should be made _____.
   a) At all relevant places                    b) At one place
   c) In Profit and Loss A/c                    d) In Balance Sheet

B] State whether the following statements are True or False (Any 10 out of 12):          10
1. There is a need to disclose change in accounting policies.
2. Rent of premises is allocated in the basis of number of employees of each department.
3. Balance Sheet shows profitability of business.
4. There is no difference between Hire Purchase Price and Cash Price.
5. Overvaluation of stock inflates profit.
6. Historical cost is the cost to be incurred in future.
7. Capital Receipt is recurring in nature.
8. Live Stock is a Current Asset.
9. In Hire Purchase buyer becomes the owner of asset on signing the agreement.
10. Royalty is recognized on receipt basis.
11. Prepaid Expenses is a Liability.
12. Subsidy received from Government is a Capital Receipt.

Q:2 A] Following is the information relating to Purchase and Sale of cloth made by Jay Traders Ltd.   20
in the month of March 2019. Find out from the give information
   i) The value of Closing Stock as on 31-03-19
   ii) The cost of goods sold and profit if the selling price of goods sold is Rs.2,40,000/-.

| Transaction | Date | Metres | Per Metre |
|---|---|---|---|
| Opening Stock | 01-03-2019 | 1.000 | @ Rs.80/- |
| Purchases | 15-03-2019 | 840 | @ Rs.82/- |
| | 25-03-2019 | 760 | @ Rs.85/- |
| | 28-03-2019 | 300 | @ Rs.90/- |
| | 30-03-2019 | 200 | @ Rs.92/- |
| Sales | 19-03-2019 | 1,400 | - |
| | 21-03-2019 | 360 | - |
| | 27-03-2019 | 640 | - |

You are asked to prepare Stores Ledger using FIFO and Weighted Average Method for the month of March 2019.

**OR**

**CODE:**    Duration: 3 hours    Marks: 100

**Q:2  B]** Following figures are extracted from the Books of Cipla Ltd. for the year ended 31st March **20** 2019

| Particulars | Dept. P Rs. | Dept. Q Rs. | Dept. R Rs. |
|---|---|---|---|
| Purchases | 4,40,000 | 5,20,000 | 1,10,000 |
| Sales | 6,10,000 | 9,25,000 | 3,20,000 |
| Returns Inwards | 10,000 | 25,000 | 20,000 |
| Returns Outwards | 40,000 | 20,000 | 10,000 |
| Wages | 8,000 | 5,000 | 7,000 |
| Stock on 01-04-2018 | 45,000 | 35,000 | 40,000 |
| Stock on 31-03-2019 | 65,000 | 20,000 | 10,000 |

Other Information:
 i. Goods transferred from P to Q Rs.10,000/- and to R Rs.8,000/-
 ii. Goods transferred from R to P Rs.5,000/- and to Q Rs.6,000/-
 iii. Goods transferred from Q to P Rs.6,500/- and to R Rs.5,600/-
 iv. Telephone Charges Rs.15,800/- to be apportioned in the ratio of 3:1:1 amongst Departments P, Q and R respectively.
 v. Rent Rs.24,000/- to be divided as 1:2:1 among Departments P, Q and R respectively.
 vi. Other Expenses:
  Discount Allowed Rs.18,000/-, Legal Expenses Rs.24,000/-, Bad Debts Rs.15,000/-, Insurance of goods Rs.8,600/-, Income Tax Rs.58,000/-.

You should allocate aforesaid expenses as you deem best indicating the basis of allocation. Working should form part of your answer.

Prepare departmental Trading and Profit and Loss Account in columnar form and General Profit and Loss Account for the year ended 31st March 2019.

**Q:3  A]** From the following Trial Balance and the additional information, prepare the Manufacturing **20** A/c, Trading A/c and Profit and Loss A/c for the year ended 31-03-2019 and the Balance Sheet as on 31-03-2019

| Particulars | Dr. (Rs.) | Particulars | Cr. (Rs.) |
|---|---|---|---|
| Stock on 01-04-2018 | | Sundry Creditors | 3,26,000 |
| Raw Materials | 4,20,000 | Bills Payable | 1,50,000 |
| Work-in-Progress | 1,90,000 | Sale of Scrap | 50,000 |
| Finished Goods | 2,30,000 | Commission | 9,000 |
| Sundry Debtors | 4,88,000 | Provision for Doubtful Debts | 33,000 |
| Carriage Inward | 30,000 | Capital Accounts | 18,00,000 |
| Bills Receivable | 3,00,000 | Sales | 35,40,000 |
| Wages | 2,60,000 | Bank O/D | 30,800 |
| Salaries | 2,00,000 | | |
| Telephone Charges | 20,000 | | |
| Repairs to Plant | 22,000 | | |
| Repairs to Furniture | 7,000 | | |
| Purchases | 16,00,000 | | |
| Cash at Bank | 2,40,000 | | |

**QUESTION CTD. ON NEXT PAGE**

CODE:                    Duration: 3 hours                    Marks: 100

| | | | |
|---|---|---|---|
| Plant and Machinery | 14,00,000 | | |
| Rent | 1,00,000 | | |
| Lighting of Factory | 1,54,400 | | |
| Office General Expenses | 31,400 | | |
| Insurance | 26,000 | | |
| Office Furniture | 2,20,000 | | |
| | 59,38,800 | | 59,38,800 |

Additional Information:
1) Stock on 31-03-2019 were: Raw Materials: Rs.3,24,000/-, Finished Goods Rs.3,40,000/-, Work-in-Progress Rs.1,40,000/-.
2) Salaries and Wages Outstanding for March 2019 were Rs.16,000/- and Rs.24,000/- respectively.
3) Machinery is depreciated by 10% p.a. and Office Furniture by 10% p.a.
4) Provision for Doubtful Debts should be maintained at the rate of 7% on Debtors.
5) Insurance amounting to Rs.1,000/- is prepaid.

### OR

**Q:3  B]  a)** State with reasons whether the following expenses or incomes are Capital or Revenue    **10**
Receipts or Expenditure.
1) Replacement of defective parts of a Machinery costing Rs.1,30,000/-.
2) Paid Audit Fees Rs.50,000/- to Mr. Jay, a Chartered Accountant.
3) Sales Tax collected from purchaser of goods.
4) Purchased marketing rights of World Cup Match Rs.50,00,000/-
5) Payment for purchase of stationery.

### AND

**b)** Find out the value of Closing Stock as on 31-03-2019 of M/S Saifi Traders using FIFO    **10**
Method only. Also calculate cost of goods sold from the following information

| Date | Particulars | Units | @ Rs. |
|---|---|---|---|
| 01-04-2018 | Opening Stock | 500 | 35 |
| 05-06-2018 | Purchases | 1,000 | 38 |
| 31-08-2018 | Sales | 500 | - |
| 19-09-2018 | Sales | 500 | - |
| 01-10-2018 | Purchases | 1,200 | 34 |
| 20-02-2019 | Sales | 1,000 | - |
| 31-03-2019 | Purchases | 800 | 30 |

What will be the profit if selling price of goods sold is Rs.1,40,000/-

**Q:4  A]** M/s Hari Transport Co. purchased a Truck from Ashok Leyland on Hire Purchase System on    **20**
1st April 2015 paying Rs.2,70,000/- against delivery as down payment, Cash Price was Rs.15,30,000/-. M/S Hari Transport Co. paid the balance in four instalments at the year end on 31st March including interest @ 10% p.a. on the unpaid amount, as follows:

| On 31-03-2016 | Rs.5,76,000/- |
| On 31-03-2017 | Rs.4,41,000/- |
| On 31-03-2018 | Rs.3,15,000/- |
| On 31-03-2019 | Rs.1,98,000/- |

They charged Depreciation on the Truck @ 15% p.a. on Diminishing Balance Method. You are required to prepare Truck Account, Ashok Leyland Account in the Books of M/S Hari Transport Co. as per Hire Purchase System.

**OR**

**Q:4  B]**  On 1$^{st}$ April 2016, M/S Rai Pharmacy purchased one Tablet Machine from Medicare Ltd. on   **20** Hire Purchase System. The cash price of the machine is Rs.5,00,000/-. The firm paid down payment Rs.1,00,000/- on 1$^{st}$ April 2016 and balance in 3 annual instalments of Rs.1,60,000/- each including interest at 10% p.a. commencing from 31$^{st}$ March 2017.

M/S Rai Pharmacy provides Deprecation on machinery at 20% p.a. on Written Down Value Method on 31$^{st}$ March every year.

You are required to give
1. Machine Account
2. Medicare Ltd. Account
for the year ended 31$^{st}$ March 2017, 2018 and 2019 in the Books of M/S Rai Pharmacy

**Q:5  Answer the following:**
    **A]**   What are the merits and demerits of FIFO Method?              **10**
    **B]**   What are the features of Hire Purchase Transactions?       **10**

**OR**

**Q:5  Write short note on any four of the following:**        **20**
    **1)**  Revenue Expenditure
    **2)**  Give Proforma of Manufacturing Account
    **3)**  Purposes of Departmentations
    **4)**  Objectives of Stock Valuation
    **5)**  Fundamental Accounting Assumptions
    **6)**  Capital Receipts

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

**CODE:**    **Duration: 3 hours**    **Marks: 100**

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

**Q:1**  **A)** **Explain the terms in 2 – 3 sentences (Any Five)**    **10**
1. Message
2. Ideation
3. Blogging
4. Grapevine Communication
5. Horizontal Communication
6. Appreciative Listening
7. Proxemics
8. Filtering

**B)** **Match the following**    **05**

| 'A' | | 'B' |
|---|---|---|
| 1) Whatsapp | a) | Study of eye contact |
| 2) Oculesics | b) | Study of voice pitch and speed of speaking |
| 3) Marginal Listening | c) | Greeting to the addressee |
| 4) Paralanguage | d) | Messenger application |
| 5) Salutation | e) | Listening partly |

**C)** **Fill in the blanks choosing the best alternative from the ones given below:**    **05**
1) Communication should result in a / an _____ response.
   a) Lengthy    b) Short
   c) Speedy    d) Understanding

2) One of the greatest advantages of _____ communication is that it leads to accountability.
   a) Oral    b) Non-verbal
   c) Written    d) Grapevine

3) _____ seems likely to have been man's earliest communication system, long preceding speech.
   a) Handshake    b) Gestures
   c) Writing    d) Music

4) Silence during a lecture indicates _____.
   a) A play of words    b) Negation of words
   c) Indifference    d) Respect for the listener

5) Barriers caused due to time and distance are called _____.
   a) Language Barriers    b) Physical Barriers
   c) Psychological Barriers    d) Cross-Cultural Barriers

**Q:2** **Write short notes on (Any four)**    **20**
   a) Diagonal Communication
   b) Advantages of Facebook
   c) Feedback
   d) Importance of Communication in the Corporate World
   e) Impact of Technological Advancements on Communication
   f) Upward Communication

CODE: _____  **Duration: 3 hours**  **Marks: 100**

**Q:3  Write in details about any two of the following:**   20
  a) Journalistic media must play a responsible role in a democracy. Do you agree? Explain with relevant examples.
  b) What are the semantic barriers? Explain the ways to overcome the barriers.
  c) Explain the concept of listening. Discuss the types of listening.

**Q:4  A]** Draft a reply in response to the following advertisement:   10
  "Wanted experienced computer Programmers for a reputed Company in Mumbai. The applicant should be a graduate with at least 03 years' experience in programming. Apply with an updated Resume to Box No. P-143, The Times of India, Mumbai – 400 001."

**Q:5  Draft the following letters: (any four)**   20
  a) You are applying for admission to Symbiosis Institute of Management's Post Graduation Course in Management. Draft a Statement of Purpose for this purpose addressed to Symbiosis Institute of Management, Pune. Highlight your experience, interests and goals.
  b) Write a recommendation letter for your Junior Associate who has given your name as referee in her application for the post of Assistant Manager at Niyati Software, Mumbai.
  c) You have been selected as Finance Manager at Finfit Bank, Mumbai. Draft a letter of acceptance of the job offer.
  d) You wish to resign from your position as Jr. Manager at Delux Foods Pvt. Ltd., as you are likely to join another Company with better position and salary. Draft a letter of resignation to your present employer.
  e) As a Group Manager of Operations Department of CompSolutions Pvt. Ltd., draft a letter of appreciation to your junior colleague Ashok Jain who has been very efficient, punctual and honest in his work and helped your department to complete the target in last month.

**Q:6  A)  Write a paragraph of not more than 150 words on any one of the following topics:**   05
  i) The Flood
  ii) E-learning

  **B)  Read the following situation carefully and answer the questions given below:**
  Ms. Alisha Gore is a hardworking and efficient employee. Whenever she has any good suggestion or opinion on the working of her department, she used to convey it to her Manager, Recently there was a new Manager who replace the old one who did not listen to Ms. Alisha or any other Associate's viewpoints and only expected them to work hard. Due to lack of inspiration to voice out their suggestions and concerns the employees stopped communicating with the Manager.

  i) What problem do you see in the above mentioned situation?   03
  ii) Discuss some ways to overcome this problem.   02
  ----------------X--------------X-------------X----------------

[1]                                          SEAT NO. _____

CODE:                    **Duration: 3 hours**                **Marks: 100**

*Instructions :- (1) All questions are compulsory.*
*(2) Figures to the right indicate full marks.*
*(3) Answer to each new question must begin on a new page.*

**Q:1  A)  Fill in the blanks with the appropriate option given in the bracket (Any 10)**          **10**

1)  The problem of finance is solved by _____.
    a) Banking                                  b) Production
    c) Marketing                                d) HR

2)  The _____ concept of business is seller centric.
    a) Traditional                              b) Modern
    c) Globalised                               d) Third Party

3)  _____ refers to relaxation of laws or rules by the Government.
    a) Liberalisation                           b) Privatisation
    c) Globalisation                            d) Co-operation

4)  Management Philosophy is an element of _____ environment.
    a) Internal                                 b) External
    c) Micro                                    d) Macro

5)  Trading Blocs result in _____ creation.
    a) Dispute                                  b) Trade
    c) Restricted Area                          d) Educational

6)  _____ agreement is concerned with liberalization of international investments.
    a) TRIM                                     b) TRIPs
    c) Agreement on Agriculture                 d) Economic

7)  _____ number is required for Directors of a Company.
    a) DIN                                      b) TIN
    c) TAN                                      d) PAN

8)  Decision on location is an important element of _____.
    a) Setting up a Business Unit               b) Marketing Research
    c) Manufacturing                            d) Inventory

9)  _____ Act aims to provide workmen and / or their dependents some relief in case of accidents arising in the Course of employment.
    a) The Workmen Compensation                 b) Competition Act 2002
    c) FEMA                                     d) Micro, Small and Medium Enterprise Act

10) An _____ is a person who always looks for changes.
    a) Entrepreneur                             b) Employee
    c) Manager                                  d) Industry

11) _____ scheme is specially meant for women entrepreneurs.
    a) TREAD                                    b) DBK
    c) MDA                                      d) None of these

12) The key strength of _____ type of entrepreneur sis imagination.
   a) Visionary                          b) Opportunist
   c) Adverturer                         d) Proactive

**Q:1   B)   State whether following statements are True or False (Any 10)**          10
   1) Traditional business was consumer centric.
   2) Objectives can never be expressed in quantitative terms.
   3) Acquisition and mergers are examples of internal growth strategies.
   4) Cultural environment does not influence demand for goods and services.
   5) Macro environmental factors in an organization include suppliers, customers, competitors and marketing intermediaries.
   6) India is a member of ASEAN.
   7) The business planning process starts with formulating alternative strategies.
   8) The feasibility study has no practical significance.
   9) There is no need to conduct period review of performance.
   10) Most successful entrepreneurs are the innovators.
   11) Entrepreneurship is an economic activity.
   12) Government provides incentives for entrepreneurship development in India.

**Q:2   Answer the following: (Any two)**          15
   a) Discuss the meaning and features of business.
   b) How would you reconcile economic objectives with social objectives?
   c) Discuss the impact of globalization on the business and economy.

**Q:3   Answer the following: (Any two)**          15
   a) Discuss the interrelationship between Business and Environment.
   b) Explain the components of Internal Environment.
   c) Explain the functions of WTO.

**Q:4   Answer the following: (Any two)**          15
   a) Explain the steps involved in business planning process.
   b) Explain the role of Government in promotion of business unit with reference to incentives.
   c) Discuss the licensing and registration of a business unit.

**Q:5   Answer the following: (Any two)**          15
   a) Discuss the importance of entrepreneurship in economic and social development.
   b) State the qualities of an effective entrepreneur.
   c) What are the problems of women entrepreneurs?

**Q:6   Write Short Notes on: (Any four)**          20
   a) Turnaround Strategy
   b) Demographic Environment
   c) NAFTA
   d) Important Legal Provisions
   e) Entrepreneurship Training Centers
   f) Restructuring Strategies

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

[1]                                           SEAT NO. _____

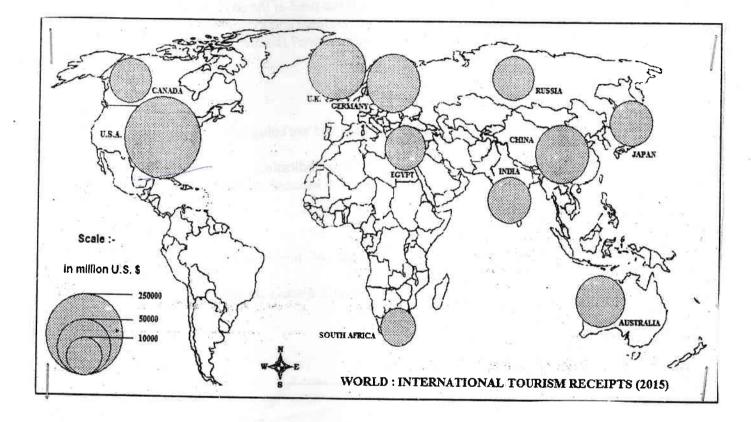CODE: _____          **Duration: 3 hours**          **Marks: 100**

*Instructions :-*   *(1) All questions are compulsory and carry equal marks.*
                    *(2) Draw neat figures / diagrams wherever applicable.*
                    *(3) Attach the map supplement to your main answer book.*
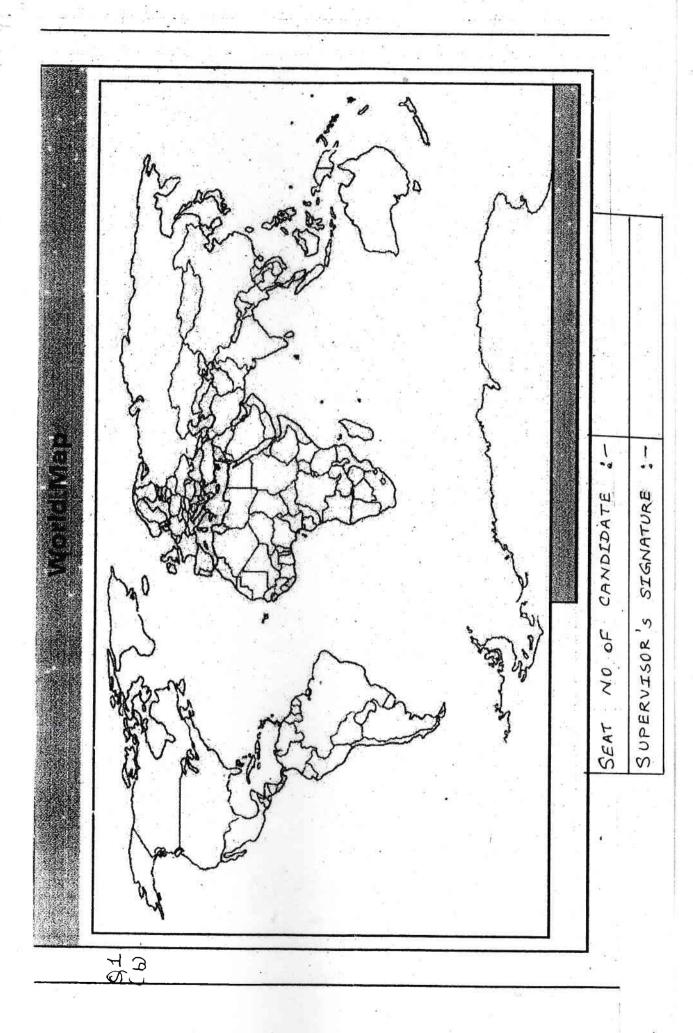                    *(4) Use of map stencil and simple calculator is allowed.*

**Q:1   (A)   Study the following thematic map of the world and give answers to the questions based on it:**



WORLD : INTERNATIONAL TOURISM RECEIPTS (2015)

| | | |
|---|---|---|
| (i) | What is the theme and technique used in the map? | 02 |
| (ii) | Discuss the scale used in the map. | 01 |
| (iii) | Name any countries having tourism receipt of 50,000 million US $. | 02 |
| (iv) | Which country has the highest receipts from tourism and how much? | 02 |
| (v) | Interpret the given map. | 03 |

**Q:1   (B)   Mark and name the following on the outline map of world given to you:**          **10**
   **(i)**   Two large producers of coal in Asia.
   **(ii)**  Any two mountain ranges in Europe.
   **(iii)** An example each of country having high life expectancy in the world and high literacy rates in the world.
   **(iv)**  Any two major perennial rivers of the world.
   **(v)**   An example each of a country having maritime location and continental location.

**CODE:**

**Duration: 3 hours**

**Marks: 100**

**Q:2 Attempt any two of the following:**
   a) Discuss with a diagram the concept of a food chain and food web.
   b) Elaborate with the help of examples the human impact on environment.        10
   c) Write a note on the Biotic components of the environment.                    10
                                                                                    10

**Q:3 Attempt any two of the following:**
   a) 'Sustainable Development of Resources is the need of the day'. Discuss.
   b) Give a brief account on any two non-conventional energy sources.             10
   c) What do you understand by the term conservation? Discuss with specific reference to   10
      water resource.                                                               10

**Q:4 Attempt any two of the following:**
   a) Suggest various measures that can be taken and are being taken to control population   10
      growth in India.
   b) Discuss on Human Development Index and its indicators.                       10
   c) Write a detailed note on overpopulation and associated environmental problems.   10

**Q:5 Attempt any two of the following:**
   a) Discuss on the effects and consequences of unplanned urbanization on urban   10
      resources.
   b) Elaborate on the concept of urbanization and discuss on the causes and effects of   10
      migration on urbanization.
   c) Give an account on 'Sustainable Cities'.                                     10

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# World Map



SEAT NO. OF CANDIDATE :-

SUPERVISOR'S SIGNATURE :-

SEAT NO. _____

CODE:        **Duration: 3 hours**        **Marks: 100**

*Instructions :- (1) Please check whether you have got the right question paper.*
*(2) All questions are compulsory.*
*(3) All questions have internal choices.*
*(4) Use of Simple Calculator is permitted.*
*(5) Figures to the right indicate full marks.*
*(6) Draw neat diagrams wherever necessary.*

**Q:1**   **A)**   **Select the best answer from the given options and rewrite the statement (Any Ten)**    **10**

**1)** _____ is concerned with planning and control of capital expenditure.
    a) Capital Management            b) Profit Management
    c) Market Management           d) None of these

**2)** Opportunity Cost is also called as _____ Cost.
    a) Total                      b) Average
    c) Marginal                d) Alternative

**3)** The market demand curve slopes _____ from left to right.
    a) Downward            b) Upward
    c) Horizontal             d) Vertical

**4)** Which of the following is a case of linear demand function?
    a) $D_x = f(P_x)$            b) $D_x = f(P_x, P_y)$
    c) $D_x = a + b\,P_x + L$       d) $D_x = 100 - 5\,P_x$

**5)** When demand is perfectly elastic, the demand curve is:
    a) Steep                 b) Non-linear
    c) Vertical             d) Horizontal

**6)** The methods of demand forecasting is / are _____.
    a) Survey Method        b) Statistical Method
    c) Only (a)             d) Both (a) and (b)

**7)** Production function refers to _____.
    a) The Input Output Relationship in the Process of Production
    b) The Technological Impact
    c) The Technology and Other Resources in Operations
    d) The Production Method

**8)** Long-run Average Cost declines as output expands due to
    a) Good Management        b) Technological Advancement
    c) Economies of Scale        d) Spread of Fixed Cost

**9)** The area lying between two ridge lines is the _____.
    a) Non-economic Region     b) Economic Region
    c) Economies of Scope      d) None of these

**10)** The fundamental difference between economic cost and accounting cost is _____.
    a) Conditional           b) Psychological
    c) Academic            d) Implicit and Explicit

11) Electricity Charges, Sales tax etc. are examples of_____ Cost.
a) Fixed                                   b) Variable
c) Private                                 d) Social

12) The break-even point is influenced by _____.
a) Price                                   b) Average Variable Cost
c) Fixed Cost                              d) All of the above

B) **State whether the following statements are True or False (Any 10)**          10
1) Many economic decisions depend on marginal analysis.
2) Cost analysis is more significant than production analysis.
3) Shift in the supply curve to the left will increase the equilibrium price.
4) Demand for a commodity depends only on price of the commodity.
5) In case of inferior goods income elasticity of demand is positive.
6) Statistical method is called qualitative method.
7) When marginal product s negative it called the stage of negative returns.
8) A large firm can enjoy financial economies and marketing economies.
9) Economies of scope is possible when two or more goods are produced.
10) Sunk costs are those costs which can be recovered.
11) In a short run period, all costs are variable.
12) The profit zone in a break-even chart shows TR = TC.

**Q:2   Attempt     A and B     OR     C and D:**
A) What is business economics? Discuss the relationship between economic concepts and     07
business decisions.
B) Given the following data:          08

| Q | 1 | 2 | 3 | 4 | 5 |
|---|----|----|----|----|----|
| P | 20 | 19 | 18 | 17 | 16 |

i) Calculate TR, AR and MR.
ii) Explain the relationship between TR and MR and MR and AR.

**OR**

C) Explain the opportunity Cost Principle, incremental and marginal concepts as basic tools in     07
the Business Economics.
D) With the help of a diagram explain the determination of equilibrium market price and     08
quantity.

**Q:3   Attempt     A and B     OR     C and D:**
A) Define the concept of demand. Explain the various determinants of demand.          07
B) Explain the difference in demand curves of firms in perfect competition and monopoly.          08

**OR**

C) What is demand forecasting? Explain the various steps in demand forecasting.          07
D) Suppose the demand function for a commodity is $Q = 20 - 3P$, derive the demand schedule     08
for price ranging from 1 to 6 and draw the demand curve.

**CODE:**   Duration: 3 hours   Marks: 100

**Q:4  Attempt    A and B    OR    C and D:**
A)  What is production function? Explain different types of production functions.   07
B)  State and explain the law of variable proportion.   08

**OR**

C)  What is meant by Economies of Scale? How is it different from Economies of Scope?   07
D)  What is iso-quant? Explain any three properties of iso-quant.   08

**Q:5  Attempt    A and B    OR    C and D:**
A)  Explain different aspects of cost curves in the short run period.   07
B)  Calculate TVC, AFC, AVC, AC and MC from the given information   08

| Output | 1 | 2 | 3 | 4 | 5 | 6 |
|--------|-----|-----|-----|-----|-----|-----|
| TFC | 20 | 20 | 20 | 20 | 20 | 20 |
| TC | 30 | 45 | 70 | 95 | 150 | 220 |

**OR**

C)  What is break-even analysis? Examine the determination of break-even point.   07
D)  If Price = Rs.8/-, AVC = Rs.6/- and TFC = Rs.50,000/-   08
   i) What is break-even quantity?
   ii) What happens to the break-even quantity when price increases to Rs.10, AVC and TFC remaining the same?
   iii) What happens to the break-even quantity when AVC increases to Rs.7, price and TFC remaining the same?

**Q:6  Attempt    A and B    OR    Write short notes on any four:**
A)  Write a note on price elasticity of demand.   10
B)  Discuss the assumption and limitation of Break-even Analysis.   10

**OR**

**Q:6  Write Short Notes (Any Four)**   20
   i)  Shifts in Demand Curve
   ii)  Promotional Elasticity of Demand
   iii)  Managerial uses of Break-even Analysis
   iv)  Expansion Path
   v)  Implicit and Explicit Cost
   vi)  Learning Curve

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F. C

SEAT NO._____

CODE:                    **Duration: 2 ½ hours**                    Marks: 75

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

**Q:1**   **A)**   **Choose the correct alternatives (Any 08)**                    **08**
   **1)** _____ follow the teachings of Lord Gautam Buddha.
      **a)** Christians          **b)** Hindus          **c)** Buddhists

   **2)** In India, _____ state has lowest literacy rate.
      **a)** Goa          **b)** Kerala          **c)** Bihar

   **3)** _____ is a form of social violence against women.
      **a)** Eve Teasing          **b)** Abduction          **c)** Dowry Harassment

   **4)** _____ is the main cause of blindness.
      **a)** Cataract          **b)** Diseases          **c)** Deficiency in Vitamin A

   **5)** The _____ scheme has improved enrollment in Government schools.
      **a)** free books          **b)** midday meal          **c)** free uniforms

   **6)** The underdeveloped regions of India are neglected and are treated as _____.
      **a)** backward regions          **b)** weak region          **c)** refugee region

   **7)** _____ refers to freedom from disturbances and violence.
      **a)** Peace          **b)** Justice          **c)** Tolerance

   **8)** Fundamental duties are incorporated in the Constitution by Article _____.
      **a)** 50          **b)** 51          **c)** 51 A

   **9)** The urban areas in India are looked after by the _____.
      **a)** Municipalities          **b)** State          **c)** Panchayat Raj

   **10)** _____ functions at Taluka level.
      **a)** Zilla Parishad          **b)** Panchayat Samiti          **c)** Gram Panchayat

**Q:1**   **B)**   **State whether following statements are True or False (Any 07)**                    **07**
   **1)** Marathi is the official language of India.
   **2)** In India, the highest poverty is in Orissa.
   **3)** Bride burning is a social violence against women.
   **4)** The Down's Syndrome can be detected during pregnancy.
   **5)** Communalism may result in loss of investments by MNCs.
   **6)** "Sons of the Soil" demand is the example of communalism.
   **7)** Peace and communal harmony may go hand in hand.
   **8)** Preamble is regarded as the soul of the Constitution.
   **9)** Criminalization of politics is also a form of political corruption.
   **10)** Women cannot hold public office and exercise public functions in equal terms with men.

**Q:2** **A)** What measure would you recommend to solve women problems in India?          **15**

**OR**

**Q:2** **B)** Explain the causes and effect of violence done against women.          **15**

**Q:3** **A)** Define communalism and explain the factors responsible for the growth of communalism in **15** India.

**OR**

**Q:3** **B)** Explain the term caste system. What are the inequalities caused by caste system in India?          **15**

**Q:4** **A)** Describe the fundamental duties of the citizens of India.          **15**

**OR**

**Q:4** **B)** Discuss in brief the salient features of the Indian Constitution.          **15**

**Q:5** **A)** Write a detailed note on Rural Local Self-Government in India.          **15**

**OR**

**Q:5** **B)** **Write Short Notes on (Any 03)**          **15**
   **a)** India as a Multi-Cultural Society
   **b)** Causes of people with physical disabilities
   **c)** Caste Conflicts in India
   **d)** The Preamble to Indian Constitution
   **e)** Challenges to Women's Participation in Politics

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**CODE:**                          **Duration: 3 hours**                          **Marks: 100**

*Instructions :- (1) Strictly avoid resorting to any unfair means during the Examination.*
*(2) Figures in brackets to the right indicate full marks.*
*(3) Working Notes should form part of your answer.*
*(4) All six questions are compulsory although there are internal options in case of question 2 to 5.*
*(5) Use of Simple Calculator is allowed.*

**Q:1  A]  Choose the most appropriate answer from the given options and rewrite the sentences.  10**
.(Any 10 out of 12)

1. As per AS – 1, disclosure of accounting policies should form part of _____.
   a) Financial Statements.                    b) Director's Report
   c) Auditor's Report                          d) Book of Accounts

2. The AS deals with revenue recognition is _____.
   a) AS – 1                                    b) AS – 9
   c) AS – 3                                    d) AS – 10

3. Carriage Outwards appearing in Trial Balance should be shown in _____.
   a) Trading Account                           b) Profit and Loss Account
   c) Balance Sheet                             d) None of the above

4. Sale of Scrap is shown on _____.
   a) Credit Side of Trading Account            b) Credit Side of Manufacturing Account
   c) Credit Side of Profit and Loss Account    d) Debit Side of Profit and Loss Account

5. The person who receives goods under Hire Purchase System is called _____.
   a) Salesmen                                  b) Hire Vendor
   c) Hire Purchaser                            d) Agent

6. In Departmental Accounts, Rent is allocated on the basis of _____ of each Department.
   a) Sales                                     b) Purchases
   c) Workers                                   d) Area Occupied

7. The initial amount payable at the time of signing the agreement in Hire Purchase transaction is _____.
   a) Hire Purchase Price                       b) Down Payment
   c) Cash Price                                d) Interest

8. The Manufacturing Account is prepared to find out _____.
   a) Gross Profit                              b) Net Profit
   c) Cost of Production                        d) Receivables

9. In _____ Method of Stock Valuation, latest purchased items are left in Stock.
   a) Weighted Average                          b) FIFO
   c) LIFO                                      d) Simple Average

10. _____ items of Inventory is excluded from the scope of Accounting Standard 2.
    a) Finished Goods                           b) Goods for Resale
    c) Spare Parts                              d) None of the above

11. In Departmental Accounts, Comprehensive Insurance (if ratio is not given) is taken in

＿＿＿＿＿.
   a) Departmental Trading Account　　b) General Profit and Loss Account
   c) Departmental Profit and Loss Account　　d) None of the above

12. The title to goods sold on Hire Purchase passes on payment of ＿＿＿＿＿.
   a) Down Payment　　b) First Instalment
   c) Second Instalment　　d) Last Instalment

B] State whether the following statements are True or False (Any 10 out of 12):　　10
1. As per AS 1 significant accounting policies should be disclosed at one place.
2. As per AS 2 inventories should be valued at cost or net realisable value whichever is less.
3. Bin Card shows Stock Position in the Bin.
4. Capital Expenditure is non-recurring in nature.
5. Goods taken for personal use are reflected in Drawings.
6. RDD is made on Debtors after writing off Bad Debts.
7. Stock Reserve for Unrealised Profit for interdepartmental transfer of goods is charged to General Profit and Loss Account.
8. Cash Price is the purchase price payable if full payment is made immediately.
9. In Departmental Accounts, Depreciation is allocated to Departments in equal proportion.
10. Income Received in Advance is an Asset.
11. Expenses for registration of the purchase of Building is a Revenue Expenditure.
12. Periodic Inventory System makes available continuous balance of Stock.

Q:2 A] From the following information, prepare Departmental Trading and Profit and Loss Account　15
for the year ending 31st March 2019 in the books of Nanded Super Market:

| Particulars | Dept. A Rs. | Dept. B Rs. | Total Rs. |
|---|---|---|---|
| Opening Stock | 5,00,000 | 8,00,000 | 13,00,000 |
| Purchases | 20,00,000 | 16,00,000 | 36,00,000 |
| Sales | 45,00,000 | 30,00,000 | 75,00,000 |
| Wages | 3,00,000 | 2,00,000 | 5,00,000 |
| Office Salaries | | | 24,00,000 |
| Discount Allowed | | | 4,40,000 |
| Discount Received | | | 1,44,000 |
| Rent Paid | | | 32,000 |

Additional Information:
1. Stock-in-Hand on 31st March 2019 – Dept. A Rs.17,00,000/-　　Dept. B – Rs.14,00,000/-
2. Office Staff appointed by Department A 10 persons and Department B 5 persons.
3. Area occupied by Department A 1,000 sq. ft. and Department B 600 sq. ft.
4. Depreciation on Furniture was Rs.26,000/- which was allocated in Department A and B equally.
5. Goods transferred from Department A to Department B was Rs.8,00,000/-.

**OR**

**Q:2  B]** Joshi and Company has two Departments M and N. From the following figures prepare the    15
Departmental Trading and Profit and Loss Account and General Profit and Loss Account for
the year ended 31$^{st}$ March 2019

| Particulars | Dept. M Rs. | Dept. N Rs. |
|---|---|---|
| Opening Stock | 80,000 | 1,00,000 |
| Purchases | 3,00,000 | 2,00,000 |
| Sales | 5,00,000 | 3,00,000 |
| Salaries | 33,600 | 24,000 |

Other Information:

| Particulars | Rs. |
|---|---|
| General Salaries | 40,000 |
| Carriage Inward | 20,000 |
| Carriage Outward | 32,000 |
| Advertising | 24,000 |
| Rent and Rates | 36,000 |
| Interest on Bank Loan | 10,000 |
| Lighting | 4,800 |
| Discount Received | 6,000 |
| Insurance | 4,000 |

Adjustments:
1. Area occupied by Dept. M and Dept. N is in the ratio of 2:1 respectively.
2. General Salaries are to be allocated equally.
3. Insurance Premium is for a comprehensive policy, allocation being inconvenient.
4. Closing Stock was Dept. M Rs.72,000/-    Dept. N Rs.80,000/-.

**Q:3  A]** The Euro Transport Ltd. purchase Truck from the Arab Motors Ltd. on Hire Purchase basis.    15
The Cash Price of the Truck was Rs.32,00,000/-.

The amounts were payable as under:
Rs.10,00,000/- on the date of purchase i.e., 1$^{st}$ April 2016.
Rs.8,00,000/- on 31$^{st}$ March 2017
Rs.8,00,000/- on 31$^{st}$ March 2018
Rs.8,24,780 on 31$^{st}$ March 2019

The Arab Motors Ltd. charged interest at 5% p.a. on the unpaid amount. The purchasing
Company decided to write off as Depreciation @ 20% p.a. on the diminishing balance each
year. It closes its accounts on 31$^{st}$ March every year.

You are required to give Truck Account, Arab Motors Ltd. Account in the Books of Euro
Transport Ltd.

**OR**

**Q:3** **B]** Amar Industries Ltd. acquired a Plant (Cash Price Rs.1,50,000/-), delivered on 1st April 2017    15
on the following Hire Purchase terms:
   i) An initial payment of Rs.40,000/- payable on or before delivery and
   ii) Four half yearly payments of Rs.30,000/- each commencing fiom 30th September 2017.

In arriving at these terms the Plant manufacturer computed interest at 6% p.a. with yearly rests.

Amar Industries Ltd. provides Depreciation at the rate of 8% on Cost. You are required to show:
a) Hire Vendor's Account
b) Interest Account
in the Books of Hire Purchaser

**Q:4** **A]** M/S Dilson and Co. a trader of wooden toys had 24,000 toys valued at Rs.6/- per toy. His    15
Purchases and Sales during last six months ending 31-03-2019 were as under:

| On 22nd October, 2018 | Sales | 10,000 Toys |
| On 23rd October, 2018 | Purchases | 20,000 Toys @ Rs.30/- each |
| On 25th January, 2019 | Sales | 16,000 Toys |
| On 26th January, 2019 | Purchases | 24,000 Toys @ Rs.36/- each |
| On 31st March, 2019 | Sales | 26,000 Toys @ Rs.60/- each |

You are required to calculate the Cost of Stock sold and value of Closing Stock under each of the following method:
a) FIFO Method
b) Weighted Average Method

**OR**

**Q:4** **B]** Stock of Material on 01-04-2018 was 1,000 units @ Rs.10/- per unit. The following    15
purchases and issues were made during the year 2018-19.

Purchases

| 02-04-2018 | 2,000 units | @ Rs.11/unit |
| 03-08-2018 | 3,000 units | @ Rs.12/unit |
| 11-10-2018 | 4,000 units | @ Rs.13/unit |
| 21-03-2019 | 5,000 units | @ Rs.14/unit |

Sales

| 05-07-2018 | 1,500 units |
| 21-10-2018 | 2,500 units |
| 26-02-2019 | 3,500 units |

You are required to prepare Store Ledger under FIFO and Weighted Average Method and calculate the Closing Stock.

CODE:                    **Duration: 3 hours**                    **Marks: 100**

**Q:5   A]** State with reasons whether the following items Capital or Revenue Receipts or Expenditures:    **15**
1) Rs.20,000/- received from the issue of further shares.
2) Wages paid for erection of Machinery.
3) Expenditure incurred for repairing Cinema Screen.
4) Amount spent on uniform of workers.
5) Commission received on Sales.
6) Term Loan taken from Bank.
7) Purchased 4% Government Securities of Rs.40,000/-.
8) Freight Paid for Raw Materials Rs.500/-.

**OR**

**B]** From the following Trial Balance of M/S Onkar Associates, Pune, prepare Final Accounts    **15**
for the year ended 31-03-2019

| Particulars | Dr. (Rs.) | Particulars | Cr. (Rs.) |
|---|---|---|---|
| Raw Materials | | Capital | 15,00,000 |
|    Opening Stock | 2,40,000 | Provision for Doubtful Debts | 10,000 |
|    Purchases | 3,90,000 | Bills Payable | 30,000 |
| Work-in-Progress | | Sundry Creditors | 73,200 |
|    Opening Stock | 1,20,000 | Sales | 13,80,000 |
| Finished Goods | | Purchase Return | 24,000 |
|    Opening Stock | 4,20,000 | Discount | 11,600 |
| Plant and Machinery | 7,20,000 | | |
| Building | 3,00,000 | | |
| Factory Taxes | 7,200 | | |
| Patents | 60,000 | | |
| Furniture | 72,000 | | |
| Drawings | 42,000 | | |
| Wages | 1,47,000 | | |
| Advertisement | 3,600 | | |
| Salary to Factory Staff | 19,200 | | |
| Salary to Office staff | 21,600 | | |
| Sales Return | 10,200 | | |
| Bank Charges | 600 | | |
| Motor Power | 18,000 | | |
| Factory Insurance | 9,000 | | |
| Discount | 4,800 | | |
| Bad Debts | 4,200 | | |
| Office Rent | 21,600 | | |
| Insurance and Taxes | 13,800 | | |
| Miscellaneous Expenses | 6,600 | | |
| Carriage Inward | 3,000 | | |
| Stationery and Printing | 8,400 | | |
| Bills Receivable | 25,800 | | |
| Sundry Debtors | 1,26,000 | | |
| Bank of India | 2,06,000 | | |
| Cash in Hand | 8,200 | | |
| | 30,28,800 | | 30,28,800 |

**CODE:**                    Duration: 3 hours                    Marks: 100

Adjustments:
1) Value of Closing Stock as on 31-03-2019
   a) Raw Materials        Rs.1,80,000/-
   b) Finished Goods       Rs.3,90,000/-
   c) Work in Progress     Rs.48,000/-
2) Factory Insurance Prepaid Rs.1,800/-.
3) Create 5% Provision for Doubtful Debts.
4) Outstanding Stationery and Printing Expenses is Rs.3,000/- for the year ended 31-03-2019
5) Provide 10% p.a. Depreciation on Plant & Machinery and Patents and 5% p.a. on Furniture.

**Q:6    A]    Write Short Notes on (Any 4 out of 6)**                    20
1. Format of Manufacturing Account
2. Fundamental Accounting Assumptions
3. Distinguish between Capital and Revenue Expenditure
4. Advantages and Disadvantages of FIFO Method
5. What is meant by Proportionate Completion and Completed Service Contract Method?
6. Explain items of Inventory that are excluded from the scope of AS -2

**OR**

**Q:6    B]    1. Explain in brief:**                    10
a) Hire Purchase Price
b) Cash Price
c) Initial Payment
d) Depreciation charged under Hire Purchase
e) Interest included in Instalments

**2. State characteristics of Capital and Revenue Receipts and briefly explain each.**                    10
----------------X-------------X-------------X----------------

[1]          SEAT NO. _____

CODE: _____          **Duration: 3 hours**          **Marks: 100**

*Instructions :- (1) All questions are compulsory.*
*(2) Figures to the right indicate full marks.*
*(3) Graph papers will be provided on request.*
*(4) Use of simple non-programmable calculator is allowed.*

**Q:1   Attempt any four of the following:**

a)   Mr. Chavan sold 140 shares at Rs.360/- each and received a net amount of Rs.50,148/-   **05**
     after deducting the brokerage. Find the brokerage percentage paid.

b)   Mr. Khan invested Rs.40,000/- in Rs.100/- shares of Company X at the rate of Rs.125/-   **05**
     per share. He received 10% dividend on these shares. He also invested Rs.48,000/- in
     Rs.10/- shares of Company Y, at Rs.12/- per share. He received 15% dividend. Which
     investment is more profitable?

c)   Mrs. Jadhav bought some units of "ICICI Liquid Fund – Growth" on 15-05-19 at an   **05**
     N.A.V. of Rs.15.0061 and redeemed them on 15-07-19 and thus earned a 1.4467% rate
     of return. Find the N.A.V. on 15-07-19 correct upto 4 decimal places.

d)   Rs.12,000/- invested in "Mutual Fund" on 05-03-19 at an N.A.V. of Rs.105.59 gave a   **05**
     number of units whose value on that day stood at Rs.11,735.48. Find the number of units
     correct upto 3 decimal places and the entry load percentage.

e)   Sanjay invested Rs.5,000/- per month in a S.I.P. for four consecutive months when the   **05**
     N.A.V.'s were Rs.12.42, Rs.13.87, Rs.13.34 and Rs.12.88 respectively. Find the average
     acquisition cost per unit upto 2 decimal places. The number of units rounded off upto 2
     decimal places.

**Q:2   Attempt any four of the following:**

a)   How many numbers of 5 digits can be formed using the digits 1, 2, 3, 4, 5 and 6 such   **05**
     that
     i) No digit is repeated
     ii) Repetition of digits is allowed

b)   A box contains 6 white balls and 4 black balls. In how many ways can one select 3 white   **05**
     and 2 black balls from this box?

c)   Solve the following L.P.P. graphically:   **05**
     Minimize :     Z = 20x + 25y;
     Subject to     2x + 3y ≥ 60;
                    10x + 3y ≥ 180;
                    x ≥ 0; y ≥ 0

d)   Solve the following L.P.P. graphically:   **05**
     Maximize :     Z = 25x + 50y;
     Subject to     x + 6y ≤ 30;
                    x + y ≤ 12;
                    x ≥ 0; y ≥ 0

e)　The daily requirement of Vitamin A and B per person is at least 5 units and 8 units respectively. Food I contains 1 unit of Vitamin A and 2 units of Vitamin B respectively per serving. Food II contains 1 unit of Vitamin A and 3 units of Vitamin B respectively per serving. The cost of Food I and Food II is Rs.50/- and Rs.60/- per serving respectively. Formulate the problem as L.P.P. to minimize the cost.　　05

**Q:3　Attempt any Four:**

a)　What are the different measures of central tendency? State their merits and demerits.　　05

b)　Calculate arithmetic mean and median for the following data:　　05

| C.I. | 0 – 20 | 20 – 40 | 40 – 60 | 60 – 80 | 80 – 100 |
|------|--------|---------|---------|---------|----------|
| Frequency | 4 | 12 | 18 | 10 | 6 |

c)　Draw the Histogram for the following data and hence find the mode graphically　　05

| Daily Income in Rs. | 500–1000 | 1000–1500 | 1500–2000 | 2000–2500 | 2500–3000 |
|---------------------|----------|-----------|-----------|-----------|-----------|
| No. of Persons | 30 | 50 | 100 | 40 | 30 |

d)　Calculate quartile deviation and its coefficient for the following data　　05

| Marks | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 |
|-------|--------|---------|---------|---------|---------|
| No. of Students | 12 | 18 | 26 | 15 | 9 |

e)　The following data represents daily wages of two groups of workers　　05

| | Factory A | Factory B |
|---|-----------|-----------|
| No. of Workers | 200 | 150 |
| A.M. of Daily Wages | Rs.120 | Rs.100 |
| S.D. | Rs.10 | Rs.20 |

i) Find combined standard deviation of two groups taken together
ii) Also find which group is more variable.

**Q:4　Attempt any four of the following:**

a)　Explain the terms with example:　　05
　　i) Exhaustive Events
　　ii) Mutually Exclusive Events
　　iii) Events

b)　If $P(A^C) = \frac{1}{3}$, $P(A \cap B) = \frac{1}{6}$, $P(B) = \frac{1}{4}$ then find　　05
　　i) P (A)
　　ii) P (A / B)

c)　One ticket is drawn at random from a set of 20 tickets numbered from 1 to 20. What is the probability that number of the ticket drawn is divisible by 5 or 6? Also find probability that number on ticket is prime number.　　05

d)  A random variable X has following probability distribution Find          05
    i) E (x)
    ii) P (x ≤ 2)
    iii) P [2 < x ≤ 4]

| X | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| P(x) | 0.05 | 0.2 | 0.1 | 0.3 | 0.15 | 0.2 |

e)  If two dice are rolled, find the probability that the sum of the numbers appearing on the          05
    uppermost face of the dice is multiple of 3 or 4.

**Q:5   Attempt any four of the following:**
   a)  Explain the Minimax Regret Criterion in decision making.          05

   b)  Given the following pay off table, choose the best decision using          05
       i) Maximin Criterion          ii) Laplace Criterion

| Events / Action | $S_1$ | $S_2$ | $S_3$ |
|---|---|---|---|
| $A_1$ | 20 | 50 | 40 |
| $A_2$ | 60 | 70 | 80 |
| $A_3$ | 10 | 30 | 90 |

   c)  Determine the best decision according to EMV Criterion for the following pay-off table          05

| States of Nature | Courses of Action | | | Probability |
|---|---|---|---|---|
|  | $A_1$ | $A_2$ | $A_3$ |  |
| $S_1$ | 12 | 10 | 15 | 0.4 |
| $S_2$ | 16 | 18 | 17 | 0.3 |
| $S_3$ | 13 | 20 | 08 | 0.3 |

   d)  Find the best Action using EOL criterion for the following pay off matrix          05

| States of Nature | Courses of Action | | Probability |
|---|---|---|---|
|  | $A_1$ | $A_2$ |  |
| $S_1$ | 100 | 500 | 0.5 |
| $S_2$ | 400 | 200 | 0.3 |
| $S_3$ | 300 | 100 | 0.2 |

   e)  Draw a decision tree for the given pay-off table and suggest the optimum decision using          05
       EMV criterion

| States of Nature | Courses of Action | | | Probability |
|---|---|---|---|---|
|  | $A_1$ | $A_2$ | $A_3$ |  |
| $S_1$ | 1000 | 3000 | 6000 | 0.6 |
| $S_2$ | 4000 | 8000 | 1400 | 0.1 |
| $S_3$ | 1200 | 7000 | 4000 | 0.3 |

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