CODE: Duration: 3 hours   Marks: 100

Instructions :- (1) Strictly avoid restoring to any unfair means during the examination.
(2) Figures to the right indicate full marks allotted to the question.
(3) Working notes should form part of your answer.
(4) All questions are compulsory, although there are internal options in case
of questions 2 to 5.
(5) Use of simple calculator is allowed.

Q:1 A] State whether the following sentences are True or False (Any Ten)   10
1. Statement of Affairs shows financial position on a certain date under Single Entry System.
2. In case of del-credere commission, bad debt loss is borne by consignee.
3. Abnormal Loss is credited to Branch Stock Account.
4. Insured gets compensation equal to the amount of policy.
5. Collection from Branch Debtors are not recorded in Branch Account under Debtors System.
6. In consignment, consignee is principal and consignor is agent.
7. Under Single Entry System, only single entry is made in the Books of Accounts.
8. Goods distributed as free samples should be credited to Trading Account.
9. Stock Debtor System is followed when branches are large in size.
10. Advance against Consignment may be given by accepting a bill of exchange by the consignee.
11. Trial Balance is prepared under Single Entry System to verify accuracy.
12. Carriage on purchase of machinery should be added to purchases to get the stock on the date of fire.

Q:1 B] Match the Columns: (Any 10)   10

	A		B
1)	Account Sale	a)	Owned by the Consignor
2)	Branch	b)	Belongs to the Consignor
3)	Profit on Consignment	c)	Total Debtors Account
4)	Credit Purchases	d)	Sent by the Consignee
5)	Credit Sales	e)	Sent by the Consignor
6)	Department	f)	Depends on Head Office
7)	Stock with the Consignee	g)	Located at different places
8)	Abnormal Goods	h)	Located at the same place
9)	Dependent Branch	i)	Full freedom to do business
10)	Independent Branch	j)	Bills Payable A/c credited
11)	Proforma Invoice	k)	Total Creditors Account
12)	Bills Payable Accepted	l)	Slow Moving Goods

Q:2 A] Amit Enterprises of Pune has two branches at Kanpur and Nagpur. The branches maintain an   20
account with a Nationalised Bank and are authorized to make purchases locally.

Following information is obtained from Kanpur Branch by Pune Office.

Particulars	Rs.
Opening Balances as on 01-04-2017	
Cash	2,000
Stocks	5,000
Debtors	12,000
Bank	7,000
Creditors	1,000
Closing Balances as on 31-03-2018 .. .	
Cash	2,700
Stocks	9,000
Debtors	4,000
Bank	6,000
Creditors	2,000
Transactions during the year	
Goods received from	
Pune	20,000
Nagpur	1,500
Locally bought Goods	3,300
Payments to Creditors	
Cash	300
Cheque	3,500
Receipts from Debtors	
Cash	6,000
Cheque	9,000
Sales on Credit	10,000
Sales for Cash	25,000
Goods returned by Customers	2,500
Goods returned to Pune (Head Office)	3,000
Goods sent to Nagpur Branch	2,000
Expenses paid at Branch by cheque	4,800
Cash Deposited in Bank	?
Amount transferred to Pune	?

Prepare Kanpur Branch Stock Account, Kanpur Branch Debtors Account, Kanpur Branch Creditors Account, Kanpur Branch Cash Account, Kanpur Branch Bank Account and Kanpur Branch Profit and Loss Account.

OR

Q:2 B] Timber Plant Ltd. consigned on 01-07-2019, 100 bicycles to Mr. Kabir of Chennai, to be sold on behalf of Timber Plant Ltd. The cost of each bicycle was Rs.1,500/- but the Invoice Price was Rs.2,000/-. Timber Plant Ltd. incurred Rs.10,000/- on Freight and Insurance. Mr. Kabir received the consignment on 14-07-2019 and accepted a three months draft drawn upon him by Timber Plant Ltd. for Rs.1,00,000/-. Mr. Kabir paid Rs.6,500/- as rent and by 31-12-2019 had disposed of 80 bicycles at Rs.2,050/- each. Mr. Kabir is entitled to a Commission of 5% on Total Sales, including a Del-Credere Commission of 1% on Total Sales. Mr. Kabir sold 20 bicycles on credit and was not able to recover sales proceeds of 5 bicycles because of insolvency of the debtor.   **20**

QUESTION CTD. ON NEXT PAGE

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

You are required to prepare
In the Books of Consignor
a) Consignment Account
b) Consignee's Account

In the Books of Consignee
a) Consignor's Account

Q:3 A] From the following information given by M/S Anurag Chemicals Ltd., you are required to   20
prepare Trading and Profit and Loss Account for the year ended 31st March 2019 and a
Balance Sheet as on that date

Particulars	01-04-2018 Rs.	31-03-2019 Rs.
Cash	5,000	?
Debtors	20,000	?
Bills Receivable	19,500	?
Stock	40,000	30,000
Fixed Assets	55,000	55,000
Creditors	20,000	?
Bills Payable	10,000	?
Cash Transactions during the year 2018-19		
Received from Debtors	1,40,000	
Bills Receivable encashed	50,000	
Cash Sales	20,000	
Payment to Creditors	75,000	
Bills Payable paid	60,000	
Drawings	5,000	
Wages and Salaries	50,000	
Insurance Expenses	2,500	
Non-Cash Transactions during the year 2018-19		
Credit Sales	2,05,000	
Credit Purchases	1,50,000	
Discount Allowed	5,000	
Discount Received	7,500	
Bills Receivable Drawn	55,000	
Bills Payable Accepted	70,000	

Adjustments to be made for preparation of Final Accounts:
a) 5% Provision for Doubtful Debts
b) Depreciation on Fixed Assets @ 10% p.a.
c) Prepaid Insurance Rs.500/-.
d) Wages Outstanding Rs.5,000/-.

OR

Q:3 B] A fire broke out in the premises of Neha Company on 1st July 2019 and stock of the value of **20**
Rs.3,15,000/- was salvaged and books and records were saved. The following information
was obtained

Particulars	Rs.
Stock on 31-03-2018	8,40,000
Stock on 31-03-2019	8,40,000
Sales from 01-04-2019 to 01-07-2019	10,20,000
Purchases from 01-04-2019 to 01-07-2019	6,30,000
Sales for the year ended 31-03-2019	30,00,000
Purchases for the year ended 31-03-2019	18,00,000

Calculate the amount of claim to be submitted to the Insurance Company if the policy
amount was Rs.6,50,000/- and purchases of the period (01-04-2019 to 01-07-2019) included
purchase of Machinery worth Rs.1,30,000/-.

Q:4 A] On 31st May, 2019, the premises and stock of a firm were totally destroyed by fire, the books **20**
of accounts, however being saved. In order to make a claim on their fire policy, they ask your
advice and you are able to obtain the following information. The Opening Stock and Closing
Stock has always been valued at 5% below cost.

Particulars	2017-18	2018-19	0104-2019 to 31-05-2019
Opening Stock	30,400	36,100	39,900
Purchases	1,10,000	1,20,000	41,000
Sales	1,70,000	1,86,000	75,000
Wages	25,080	29,200	12,000
Closing Stock	36,100	39,900	(?)

Prepare a statement for submission to the Insurance Company in support of your claim for
loss of stock.

OR

Q:4 B] M/S Asha Agencies of Surat, manufacturer of Sewing Machines sent on consignment to **20**
Mr. Kapoor 100 sewing machines costing Rs.3,00,000/- each. The machines were sent at an
invoice price which is 25% above cost price. M/S Asha Agencies spent Rs.80,000/- on
Freight and Insurance.

Mr. Kapoor received a delivery of 90 machines, 10 being lost in transit, and paid Rs.50,000/-
for Carriage, etc. Mr. Kapoor sold 70 machines on credit at Rs.50,000/- each. He found 5
machines defective and therefore returned them to consignor at a cost of Rs.6,000/-. He is
entitled to a Commission of 5% on Invoice Price, 10% on Surplus Price realized and 1 % Del
Credere Commission.

Show Consignment Account and Mr. Kapoor's Account in the Books of M/S Asha Agencies.

SEAT NO. _____

CODE:

Duration: 3 hours

Marks: 100

Q:5 **A]** What are the features of Dependent Branch and give format of Branch Account in Branch Debtors System. 10

B] What is Consignment and its necessity? Give format of Consignment Account. 10

OR

Q:5 **Write Short Notes on (Any Four)** 20
1. Stock and Debtors Method
2. Average Clause
3. Proforma Invoice
4. Total Debtors Account
5. Account Sale
6. Objectives of Branch Accounting

----------------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 following terms in 2 – 3 sentences (Any 05):**   **10**
1) WASP in Interview
2) Appraisal Interview
3) Quorum
4) Resolution
5) Line Committee
6) Power of Expression in Group Discussion
7) Suggestion Schemes
8) Reflective Questions

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

'A'	'B'
1) Brainstorming	a) Problem of Group Communication
2) First item on the agenda	b) Concerned with the purchase side of trade
3) Clash of egos	c) To find out solutions for specific problems
4) Employee Handbook	d) Confirmation of the minutes of the last meeting
5) Letter of Inquiry	e) For newcomers of a Company.

Q:2   **Write short notes on <u>any four</u> of the following:**   **20**
a) Interviews for Grievances
b) Skills assessed in Group Discussion
c) Selection Interview and its Importance
d) Principles of Group Dynamics
e) Relevance of a Meeting in Business Organisations
f) Types of Meetings

Q:3   **Answer any two of the following questions:**   **20**
a) What is a Committee? Explain disadvantages of Committees.
b) Explain how Contemporary Conferences vary from those conducted traditionally.
c) Enumerate the different PUBLICS of Public Relations and elucidate how external and internal communication caters to the needs of these publics.

Q:4   **Write any four of the following letters:**   **20**
a) The Managers of the branches of your Company are coming to the Head Office for a Conference. They have to stay for three days at the same hotel; a room will also be required for Conference purposes during their visit. Write a letter of inquiry to the Hotel giving full details.

b) You had recently ordered a consignment of 10 bales of cotton. The bales reached Mumbai port and you found that two bales contained an inferior variety of cotton. Draft a letter of complaint and suggest a mode of restitution.

c) Write a Sales letter to promote the sale of any one of the following:
1) A new children's magazine   2) A newly launched toothpaste

d) One of your relatives was operated by a famous surgeon for Cataract. The operation was a failure and the relative had lost sight in her left eye. It was reported to you that in the course of the operation the Surgeon left the room to attend a phone call, leaving his unqualified assistant to complete the surgery. The Surgeon admits that he left the room but that this was the normal practice. Write a petition to be submitted to the District Forum seeking damages to the tune of Rupees Five Lakhs.

e) A number of illegal garages have sprung up in your locality. They are polluting the neighbourhood and endangering the lives of the people by encroaching on the footpath. Draft an RTI Petition to the Municipal Corporation questioning the existence of these illegal structures.

Q:5 A) Your Company wishes to set up Sales Counters of Engine Oil at 10 strategic location based petrol pumps of a famous Company in Mumbai. Draft a business proposal including the terms of profit sharing and other nitty-gritties of the trade.   10

OR

B) A One Garment Co. Mumbai has been receiving frequent complaints from customers in the Southern States about non-delivery and shortage of goods despatched from its Factory in Thane. The Chief Executive of the Sales Department has been asked to investigate it and report with recommendations. Draft the report.   10

Q:6 Draft the Notice and Agenda of the First Board Meeting of Stylo Associates Ltd. Company. 10
Also draft the following resolutions:
i) Opening of Bank Account
ii) Adoption of Common Seal

Q:7 **Summarize the following passage and give it a suitable title:**   05
All scientific data shows that rapid global warming is taking place due to human activities that result in Greenhouse Gas emissions, especially carbon emissions. Our activities in the last century alone may be attributed to the melting of glaciers which is one of the major threats that we face now in the form of sea-level rise. A massive iceberg off the Coast of Greenland is threatening to destroy several villages, forcing many to evacuate. This is not an isolated incident. Accelerated sea-level is due to the melting of glaciers and sea ice, and sea water expansion due to warming.

Sea-level rise has become so rampant that many of the world's coastal cities, both large and small, face the threat of "drowning by water". Until a few years ago, there was hope that we could turn back the tide by implementing serious and thoughtful measures to reduce carbon emissions. It is now scientific knowledge that we have crossed that threshold: a drastically altered global climate is now a question of not "if" but "when" or "how soon". The Arctic is melting at a faster pace than projected earlier and, according to a recent report (by Arctic Monitoring and Assessment Program), it could be ice-free in summer as early as 2040. The Antarctic is also melting, but at a slower pace. To put it in perspective, Western

Antarctic lost a Mt. Everest sized amount of ice every two years during the past two decades, according to a 2014 NASA estimate.

Scientists who measure the annual ice melt have been alarmed by the speed at which the glaciers are receding posing grave danger to animals in the region. Sea-level rise in the coming decades is now feared to be much more than earlier forecasts, so that large areas of many of the world's coastal cities would be under water by 2030. Loss of Arctic ice could also mean less white surface to reflect the sun's heat and an increase in ocean temperatures globally, and melting the Arctic ice further. The loss of Arctic ice could also affect climate patterns.

(Courtesy: Manorama Year Book 2019)

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F.Y. B.COM. Sem II Regular 100 marks Feb/march-20
Exam.
Sub. - B.Economics.
Date 29.02.20

[1]   SEAT NO. _____

CODE: Duration: 3 hours   Marks: 100

Instructions :- (1) All questions are compulsory.
(2) All questions have internal choice.
(3) Draw neat diagrams wherever necessary.
(4) Use of simple calculator is permitted.
(5) Figures to the right indicate full marks.

Q:1   A)   Choose the most suitable answer from the given options and rewrite the statements.   10
(Any Ten)

1) Perfect competition assumes _____ commodities.
a) Homogeneous   b) Heterogeneous
c) Both (a) and (b)   d) None of these

2) In the long run, the firm is in equilibrium at the point where the _____
a) LMC > LMR   b) LMC < LMR
c) LMC = LMR   d) All of the above

3) A natural monopoly is attributed to:
a) Government Policy   b) Big Market
c) Control over the concerned Raw Materials   d) Economies of Scale

4) Waste of expenditure in the form on cross transport is found in _____:
a) Perfect Competition   b) Monopoly
c) Monopolistic Competition   d) Oligopoly

5) In oligopoly theory, discontinuous marginal revenue curve explains the phenomenon of:
a) Price Behaviour   b) Price Rigidity
c) Price Discrimination   d) All of the above

6) In _____ firms jointly fix price and output through agreements.
a) Price Leadership   b) Cartel
c) Both (a) and (b)   d) None of these

7) The objective of price policy is _____.
a) Survival   b) Sales Maximisation
c) Market Share   d) All of the above

8) Charging different prices to different buyer for the same product is referred to as:
a) Price Differentiation   b) Price Discrimination
c) Oligopoly Pricing   d) All of the above

9) Cost Plus Pricing is also known as _____.
a) transfer Pricing   b) Dumping
c) Full-Cost Pricing   d) Marginal Cost Pricing

10) Capital budgeting relates to:
a) Long Term Investment Decisions   b) Investment Term
c) Short Term Business Projects   d) All of the above

11) The major steps involved in investment appraisal:
a) Search of new Proposals   b) Classification of Projects
c) Feasibility Study   d) All of the above

CODE:

12) If NPV of the project is positive, the project is:
a) Acceptable
b) Rejected
c) Indifferent in Choice
d) None of the above

B) State whether the following statements are True or False (Any 10)   10
1) There is no freedom of entry and exit under perfect competition.
2) In the short run under perfect competition a firm earns only normal profit.
3) Under monopoly there is exploitation of consumer.
4) Selling cost does exist under monopolistic competition and monopoly.
5) Advertising makes demand more elastic.
6) Dominant firm can become leader in oligopoly.
7) The monopolist may charge different prices in different markets for the same product.
8) In penetration pricing low price is designed in the initial stage with a view to capture greater market share.
9) In second degree price discrimination, price varies according to quantity sold.
10) Capital budgeting decisions are reversible.
11) Payback Period Method is simple to understand and easy to calculate.
12) Internal Rate of Return Method is the rate at which the Net Present Value of investment is zero.

Q:2 Attempt   A and B   OR   C and D:
A) Discuss the various sources of monopoly power.   08
B) Explain why perfect competition and monopoly models are two extreme cases of market   07
structure?

OR

C) Explain the equilibrium of a firm under perfect competition in the short run.   08
D) Calculate TR, AR, MR, MC and Profit from given data   07

Units Sold	8	10	12	14
Price	10	09	08	07
TC	40	80	100	110

Q:3 Attempt   A and B   OR   C and D:
A) Enumerate the features of monopolistic competition.   08
B) Explain the short-run equilibrium of a firm under monopolistic competition.   07

OR

C) What are the benefits and harmful effects of advertising?   08
D) What is Price Leadership? Explain the types of Price Leadership.   07

Q:4 Attempt   A and B   OR   C and D:
A) What is price discrimination? Under what conditions is it possible?   08
B) Explain multiple-product pricing with the help of diagram.   07

OR

C) What is meant by Cost Plus Pricing? Explain its advantages and disadvantages.   08

D) Enumerate the advantages and disadvantages of marginal cost pricing.   07

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

A) Explain the significance and need for Capital Budgeting.   08

B) Suppose there are two Projects A and B generating annual returns as under. The initial   07
investment is of Rs.85,000/- and Rs.80,000/- respectively. Calculate pay back period, which
project is chosen and why?

Year	Project A	Project B
1	50,000	30,000
2	10,000	20,000
3	5,000	30,000
4	20,000	20,000

OR

C) What do you understand by Net Present Value Method? State its advantages and   08
disadvantages.

D) Write a note on Internal Rate of Return.   07

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

A) Explain the short run and long run equilibrium of a monopolist.   10

B) What are the degrees of price discrimination? Explain with diagram.   10

OR

Q:6 Write Short Notes (Any Four)   20

1) Profit Maximization of a Competitive Firm
2) Supply Curve of a Competitive Firm
3) Features of Oligopoly
4) Transfer Pricing
5) Dumping
6) Payback Period Method

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

[1]   SEAT NO. _____

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

Instructions :- (1) Please check whether you have received the right question paper.
(2) All questions are compulsory.
(3) Figures to the right indicate full marks.

Q:1   A) Fill in the blanks with correct options (Any 10)   **10**

1) India's services sector contributes to about _____ percent of the country's Gross Domestic Product.
a) 35   b) 60
c) 80   d) 100

2) When customer expectations from a service are met, it leads to customer _____.
a) Satisfaction   b) Dissatisfaction
c) Delight   d) Identification

3) _____ is the first step in any new service development process.
a) Idea Generation   b) Screening Ideas
c) Concept Testing   d) Market Testing

4) _____ is an example of non-store retailing.
a) Electronic Retailing   b) Franchise Store
c) Department Store   d) Malls

5) _____ refers to the integration of people, place, process and technology in the retail outlet.
a) Facility Management   b) Positioning
c) Zoning   d) Mannequins

6) _____ is the first store to set up a shop in mall.
a) Anchor Client   b) Convenience Store
c) Food Court   d) Parking Facility

7) _____ involves outsourcing of Engineering and Research and Development work.
a) KPO   b) LPO
c) BPO   d) CEO

8) _____ can be used to make cash withdrawals and payments.
a) ATM   b) Pan Card
c) Pass Book   d) Aadhar Card

9) _____ is vital for international trade.
a) Logistics   b) Catering
c) Media Services   d) None of these

10) E-Commerce transactions between Companies is referred to as _____.
a) B2C   b) C2C
c) B2B   d) B2G

11) E-commerce has _____ exchange of information.
a) Paperless   b) Verbal
c) Indirect   d) All of these

12) In India, _____ accounts for majority of sales of B2C E-Commerce.
   a) Online Travel   b) Financial Services
   c) Educational Services   d) E-tailing

B) State whether the following statements are True or False (Any 10)   10
1) Valuation of services is difficult.
2) Hospitality industry is a part of the service sector.
3) Service sector supports the primary and secondary sector.
4) Signages must be placed at different sides of the store.
5) Non-availability of trained manpower is one important challenge in retail sector of India.
6) Flooring, ceiling and lighting are elements of interior store design.
7) India is not one of the world's favoured market for BPO Companies.
8) The Indian Legal System is different from the legal systems of UK, Canada and parts of Europe.
9) A credit card acts as a type of prepaid card.
10) E-Commerce has a global reach.
11) M-Commerce is branch of E-Commerce.
12) The penetration of E-Commerce is low in rural India.

Q:2 Answer the following (Any 2):   15
   a) Bring about classification of services.
   b) What do you mean by marketing mix of service? What are its elements?
   c) Briefly explain the challenges in service sector.

Q:3 Answer the following (Any 2):   15
   a) "Organised retailing is different from unorganised". Do you agree? Justify.
   b) Briefly explain the different store formats.
   c) Explain prospects of retailing in India.

Q:4 Answer the following (Any 2):   15
   a) Write a note on concept of BPO.
   b) What is debit card? What are its advantages?
   c) What is logistics? What are its elements?

Q:5 Answer the following (Any 2):   15
   a) What are the limitations of E-Commerce?
   b) Write a note on B2C E-Commerce.
   c) What is online marketing research? What are its advantages?

Q:6 Write Short Notes on (Any 4):   20
   a) Retail Merchandisers
   b) Physical Evidence
   c) FDI in Retailing
   d) ERP
   e) Non-Store Retail Formats
   f) B2B

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

[1]   SEAT NO. _____

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

Instructions :- (1) All questions are compulsory.
(2) Draw diagrams / maps, wherever necessary.
(3) Figures to the right indicate marks allotted to the questions.
(3) Attach the map supplement to your main answer paper.

Q:1 (a) On the outline map of Mumbai supplied to you, mark and name the following: 10
(i) A solid waste dumping ground.
(ii) A creek having mangroves.
(iii) An area experiencing air pollution due to conventional power plant.
(iv) A major slum area.
(v) An area famous for water sport.
(vi) An area subject to noise pollution due to commercial activities.
(vii) A beach resort.
(viii) An area affected by floods.
(ix) An area affected by air pollution due to textile industry.
(x) A fort site.

Q:1 (b) On the outline map of Konkan supplied to you, mark and name the following: 10
(i) A famous pilgrimage centre.
(ii) An area facing environmental problems due to cattle sheds.
(iii) An area affected by earthquake tremors.
(iv) A polluted river.
(v) A Kharland.
(vi) An area affected by noise pollution due to roadways.
(vii) An area affected by landslides and rockfalls.
(viii) A bird sanctuary.
(ix) A region affected by urban encroachment.
(x) An area experiencing marine erosion.

Q:2 Attempt any two of the following:
a) Describe the process of Solid Waste Management in the city of Mumbai. 10
b) Discuss various effects of solid waste on the environment and human health. 10
c) Write a detailed note on E-Waste. 10

Q:3 Attempt any two of the following:
a) What is Ozone Depletion? Discuss its sources and effects. 10
b) Explain the concepts of 'Green Business' and 'Green Consumerism'. 10
c) What is meant by the term Sustainable Agriculture? Discuss the need and techniques of Sustainable Agriculture. 10

Q:4 Attempt any two of the following:
a) Discuss on the tourism potentials of India with suitable examples and what are the challenges? 10
b) Identify the positive impacts of tourism. 10
c) Discuss on the factors essentials for development of tourism. 10

Q:5   Attempt <u>any two</u> of the following:
  a) Give a detailed account on Save Narmada Movement.   10
  b) Critically explain the concepts of Carbon Credits.   10
  c) Identify and elaborate on the constitutional and legal provisions towards environment   . 10
      protection in India.

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) In the state of _____, the number of farmers' suicides is the highest.
    a) Madhya Pradesh   b) Karnataka   c) Maharashtra

2) As.per the.New Industrial Policy, 1991, licensing is required only in _____ industries.
    a) five   b) six   c) seven

3) Human rights have _____ application.
    a) limited   b) maximum   c) universal

4) Abolition of _____ is provided under Article 17 of the Indian Constitution.
    a) caste   b) child labour   c) untouchability

5) _____ ecology focuses on the interactions between species within an ecological community.
    a) Community   b) Ecosystem   c) Systems

6) The _____ are the small living beings, such as bacteria, insects and fungi.
    a) primary producers   b) consumers   c) decomposers

7) _____ refers to behaviours by individuals that intentionally threaten, attempt or inflict physical harm on others.
    a) Conflict   b) Violence   c) Aggression

8) The family influences a person's _____ through mirror image of himself / herself.
    a) self-concept   b) attitude   c) behaviour

9) The _____ needs lie at the highest level of the hierarchy of Maslow's Need Hierarchy Theory.
    a) physiological   b) social esteem   c) self-actualisation

10) _____ means forming close associations with trusted friends and co-workers.
    a) Networking   b) Social Support   c) Relaxation

Q:1 B) State whether following statements are True or False (Any 07)   **07**

1) Liberalization implies free flow of goods and services, capital, technology and labour across national borders.
2) Forced migration may also be called as forced displacement.
3) The fundamental rights are absolute.
4) The right against exploitation provides for abolition of traffic in human beings and beggar and other similar forms of forced labour.
5) Urbanization is the only cause of environmental degradation.
6) Ecology is the abiotic and biotic elements that surround humans.
7) Eustress is the term used to describe positive stress.
8) Regionalism causes intergroup conflicts.

9) Smoothing refers to accommodating other party's interest.
10) All individuals need not have some set of needs.

Q:2   A)   Discuss the reasons for farmers' suicides in India.   15

OR

Q:2   B)   Discuss in details the impact of IT and Communication due to globalisation on Indian   15
            economy.

Q:3   A)   Explain the concept of human rights. Elaborate its origin and evolution.   15

OR

Q:3   B)   What are fundamental rights? Explain its significance.   15

Q:4   A)   What is environment degradation? What are the causes of environment degradation?   15

OR

Q:4   B)   Discuss in details the significance of values in Individual Development.   15

Q:5   A)   Explain the Maslow's Theory of Self Actualization.   15

OR

Q:5   B)   **Write Short Notes on (Any 03)**   15
       a)   Globalisation and Changes in Employment
       b)   Right to Freedom of Religion
       c)   Effects of Environmental Degradation
       d)   Measures for Resolving Aggression and Violence in Society
       e)   Strategies for Coping with Conflicts

----------------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.

SECTION I

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

a) Find $\frac{dy}{dx}$ of the following: 05
   i) $y = \log_5(x) + 3\sqrt{x} - 5^x + 150$
   ii) $y = \frac{x^2 - 3x + 4}{3x + 5}$

b) The relation between demand and price is 3D + 10P = 50 where D = Demand and   05
   P = Price. Express demand function, total revenue function in terms of D. Also find their
   values at D = 4.

c) A manufacturer sells x items at a price Rs.(500 – x) each. The total cost of   05
   manufacturing x items is Rs.(x² + 20x + 40). Find x for which profit is maximum.

d) The total cost function is C = x³ + 2x² + x + 5. Find average cost and marginal cost   05
   functions at x = 5.

e) Find the elasticity of demand if the marginal revenue is 20 and average price is 70.   05

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

a) A principal amounts to Rs.23,760/- after 4 years and to Rs.28,080/- after 7 years. Find   03
   the principal and the rate of simple interest.   02

b) Find the accumulated amount of Rs.25,000/- at 9% p.a. in 3 years compounded half   05
   yearly.

c) Aditya will pay Ajit Rs.1,50,000/- after 2 years and he will pay Balasaheb Rs.96,000/-   05
   after 3 years. Find the present value of both payments, if the interest rate is 8% p.a.,
   compounded annually.

d) Calculate the accumulated value after 4 years of an immediate annuity of Rs.12,500/-   05
   p.a., the rate of interest being 8% p.a.

e) Mr. Patil took a loan of Rs.2,50,000/- with 10% per month, to be repaid in 5 months.   05
   Calculate the EMI using reducing balance method and flat rate of interest method.

SECTION II

Q:3 Attempt any Four of the following:

a) Calculate the Coefficient of Correlation between the variables X and Y for the following data (Correct upto 2 decimal places)   05

X	10	15	12	10	13
Y	13	20	15	10	12

b) If the Rank Correlation Coefficient is 0.25 and $\Sigma d^2 = 15$, then find the number of pairs of observations. [Assume that no rank is repeated].   05

c) For a group of men and women workers in an organisation the following data of wages in hundred Rs. per day was given   05

	Men (x)	Women (y)
Mean	7	5
Standard Deviation	2	1
Coefficient of Correlation (r) = 0.5		

Find the regression equation of x on y and hence estimate the daily wage of men when wage of a women was 8 hundred Rs.

d) The regression equation of Y on X is $y - x = 10$ and regression equation of X on Y is $4x - y = 80$. Find   05
   i) Mean of x and mean of y   ii) Correlation Coefficient (r)

e) Explain in brief how can one identify the different types of correlation using Scatter Diagram?   05

Q:4 Attempt any four of the following:

a) What is Time Series? Describe components of a times series.   05

b) Find the trend for the following data using five yearly moving average method. Also plot the moving averages on a graph paper   05

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018
Productions	20	10	10	30	30	20	60	10	30

c) Fit a straight line trend by the method of least squares and hence estimate the sales for the year 2018 from the following data: 05

Year	2012	2013	2014	2015	2016
Sales	12	13	09	17	14

d) Calculate index number by Marshall-Edgeworth Price Index Number Method from the following data   **05**

Commodity	Base Year		Current Year	
	Price	Quantity	Price	Quantity
A	10	7	20	1
B	30	5	30	6
C	40	1	50	8

e) Calculate the cost of Living Index Number by Family budget Method for the following data: **05**

Group	Price in 2013	Price in 2018	Weights
Clothing	40	50	20
Food	50	80	30
Fuel	10	07	10
Rent	15	24	20
Miscellaneous	32	40	20

Q:5 Attempt any four of the following:

a) State the properties of Normal Distribution   **05**

b) An unbiased coin is tossed 5 times. What is the probability of getting   **05**
i) 2 heads   ii) At most 2 heads

c) A discrete random variable following Poisson Distribution, P(x=1): P(x=2) = 4:6. Find P(x=4) [Given e^{-3} = 0.0498]   **05**

d) A variate X follows Poison Distribution with parameter m = 2. Evaluate   **05**
i) P (x < 1)   ii) P (x = 1)   iii) P (x >1)
(Given e^{-2} = 0.1353)

e) If X is a normal variable with mean 25 and standard deviation 10, find   **05**
i) P (x ≤ 35)   ii) P (15 ≤ x ≤ 35)
[Given that: Area between z = 0 and z = 1 is 0.3413]

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