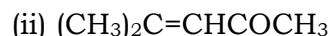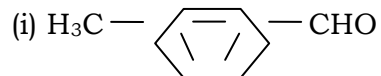I. Choose the correct answer: 5x1=5
1. Which is used as a substrate for manufacturing thermo softening plastic Perspex?
   a. Acetaldehyde   b. Acetone   c. Benzaldehyde   d. Formic acid
2. Benzaldehyde + N1N dimethylani line →
       a. Bromophenol blue   b. Malachitegreen
       c. Ethidium bromide   d. None of these
3. Urotrophine is ____.
       a. tetra methyclene tetramine   b. Hexamethylenetetramine
       c. tetra methylene hexamine   d. all of these
4. $Fe(OH)_3$ Sol appears as _____.
   a. spherical shape   b. disc shape   c. rod shape   d. oval shape
5. Natural honey is differentiated from Artificial by ____.
       a. ammonical $AUNO_3$ b. ammonical $AgNO_3$
       c. ammonical $AlCl_3$ d. None of these

II. Answer any 5 of the following: 5x2=10
6. Addition of Alum purifies water. Why?
7. What is the difference between sol and a gel?
8. Define Adsorption isotherm.
9. Differentiate lyophilic and lyophobic colloids.
10. Write the IUPAC name of:
       (i) H_3C — ⬡ — CHO   (ii) $(CH_3)_2C=CHCOCH_3$
11. Write Stephen reaction.
12. What are pinacols?
13. Write two uses of HCHO & C_6H_5CHO.

III. Answer any 5 of the following: 5x3=15
14. Write Aldol condensation.
15. What is Friedel-crafts acylation?
16. Write Ozonolysis of alkenes.
17. Differentiate clemmensen and wolf kishner reduction.
18. Give a account on zeolite catalysis.
19. Differentiate physisorption and chemisorptions.
20. What are emulsions?
21. Define Brownian movement.

IV. Answer any 2 of the following: 2x5=10
22. Explain the theories of adsorption.
23. Discuss in detail the preparation of colloids.
24. Write 3 Nucleophilic addition reaction of aldehyde.
25. Explain Cannizaro reaction.

I. Choose the correct answer: 5x1=5
1. In a hydrogen atom, the electron revolving in the fourth orbit has angular momentum equal to _____.
       a) h   b) $\frac{h}{\pi}$ c) $\frac{4h}{\pi}$ d) $\frac{2h}{\pi}$
2. The change of cathode rays is _____.
       a) positive   b) negative   c) neutral   d) not defined
3. If the nuclear radius of ^{27}Al is 3.6 fermi, the approximate nuclear radius of ^{64}Cu is _____.
       a) 2.4   b) 1.2   c) 4.8   d) 3.6
4. Suppose an alpha particle accelerated by a potential of V (volt) is allowed to collide with a nucleus whose atomic number is Z, then the distance of closest approach of alpha particle to the nucleus is _____.
       a) $14.4\frac{Z}{V}$ Å   b) $14.4\frac{V}{Z}$ Å   c) $1.44\frac{Z}{V}$ Å   d) $1.44\frac{V}{Z}$ Å
5. The average binding energy per nucleon is about _____ for mass number between A=40 and 120.
       a) 5.6 Mev   b) 8.8 Mev   c) 8.5 Mev   d) 6.6 Mev

II. Answer any 5 of the following: 5x2=10
6. Calculate the number of nuclei of carbon-14 undecayed after 22920 years if the initial number of carbon-14 atoms is 10,000. The half life of carbon-14 is 5730 years.
7. Define curie.
8. What is binding energy of a nucleus?
9. Define ionization energy and ionization potential.
10. Write down the drawbacks of Bohr atom model.
11. Define atomic mass unit u.

III. Answer any 5 of the following: 5x3=15
12. What are the properties of nuclear force.
13. Derive the expression for half-life period.
14. Discuss the alpha decay process with example.
15. Write all the postulates of Bohr atom model.
16. Explain the variation of average binding energy with the mass number by graph.

IV. Answer any 2 in detail: 2x5=10
17. Discuss the spectral series of hydrogen atom.
18. Obtain the law of radioactivity.
19. Discuss the Millikan's oil drop experiment to determine the charge of an electron.

28.11.19   Comprehensive Revision Programme-2   Time:1.15 hrs

STD: XII (A,B) AN   Biology   Marks: 20

Bio-Botany

I. Answer all the question: 3x1=3

1. First cell of Male gametophyte in angiosperm is _____.

    a) Megaspore   b) Microspore   c) Nucleus
    d) Primary Endosperm Nucleus

2. Pollen tube was discovered by _____.

    a) J.G.Kolreuter   b) G.B.Amici   c) E.Strasburger
    d) E.Hanning

3. Which of the given plant produces cardiac glycosides?

    a) Calotropis   b) Acacia   c) Nepenthes   d) Utricularia

II. Answer any 3 of the following: 3x2=6

4. What are the advantages of seed dispersal?

5. What is Rhytidome?

6. What are the significance of parthenocarpy?

7. Define Apomixis.

III. Answer any 2 of the following: 2x3=6

8. List out the characteristics of ornithophilous flowers.

9. Differentiate Herkogamy and Heterostyly.

10. What is co-evolution?

IV. Answer any 1 in detail: 1x5=5

11. What is vivipary?

    i) Name a plant group which exhibits vivipary.

    ii) Lichen is considered as a good example of obligate
       mutualism. Explain.

12. Differentiate the structure of Dicot and Monocot seed.

Bio-Zoology

I. Answer any one of the following: 1x1=1

1. What is the condition of chromosome set for a spermatid?

        a) haploid   b) diploid

2. Which hormone brings about Lactational amenorrhoea, which
   hormone is inhibited?

II. Answer any 4 of the following: 4x2=8

3. What is meant by strobilation?

4. Write a note on conjugation.

5. What is meant by Parthenogenesis?

6. What is meant by Patau's syndrome?

7. What is the role of IUD's?

8. What is meant by Brater Hick's?

9. What is meant by Weiners hypothesis?

III. Answer any 2 of the following: 2x3=6

10. Differentiate vasectomy and tubectomy.

11. Differentiate GIFT and ZIFT.

12. What is meant by Erythroblastosis foetalis?

13. What is meant by isogamy and anisogamy?

IV. Answer any one of the following: 1x5=5

14. Explain Multiple Allelism and co-dominance in Human blood
    group – ABO

15. Write a note on one Bacterial std and one from fungal and
    protozoan STD.

I. Choose the correct answer: 10x1=10

1. Incomplete records are generally maintained by ____.

    a. Company   b. Government

    c. Small sized sole trader basing

2. The excess of assets over liabilities is ____.

    a. loss   b. capital   c. curb

3. What is the amount of capital of the proprietor, if his assets are Rs.85,000 and liabilities are 21000?

    a. 64,000   b. 85,000   c. 1,06,000

4. Receipts and payment a/c is a _____.

    a. Nominal a/c   b. Real a/c   c. Personal a/c

5. Income and expenditure a/c is a _____.

    a. Real a/c   b. Nominal a/c   c. Personal a/c

6. Donation received for specific purpose is _____.

  a. revenue receipt   b. capital receipt c. capital expenditure

7. On what basis the receipts and payment a/c is prepared ____.

    a. cash basis   b. credit basis   c. both

8. Capital fund also called as _____.

  a. accumulated fund   b. special fund   c. donation fund

9. Companies cannot keep books on single entry system because of

    a. tax properties   b. legal provisions c. both a & b

10. A firm has asset worth Rs.47500 and liabilities Rs.17,700. Then capital is _____.

    a. 29800   b. 65200   c. 17700

II. Answer any 4 of the following questions: 4x5=20

11. From the information given below, prepare receipts and payment a/c of Coimbatore cricket club for the year ends 31/3/19.

Particulars	Rs.	Rs.	Particulars	Rs.
Bank overdraft (1.4.18)		6000	Honorarium paid	2800
Cash in hand		1000	Electricity charges	700
Wages paid for ground maintenance		2000	Match expenses	2600
Subscription received:			Sports material purchases	1900
Previous year	500		Match fund receipts	5200
Current year	9600		Legacies	2000
Subsequent year	400	10500	Cash balance 31.3.19	300
Wages yet to be paid		2200	Donation received	
Interest on loan paid		2000	pavilion	2000

12. State the difference between Receipt and Payment a/c and Income and expenditure a/c.

13. Prepare Income and Expenditure a/c of Basket ball association for the year ended 31st March, 2018.

Receipt	Rs.	Rs.	Payment	Rs.	Rs.
To balance b/d			By salary		1500
cash in hand	3200		By rent		800
To subscriptions	22500		By electricity		3500
To entrance fees	1250		By taxes		1700
To donations	2500		By stationery		380
To rent of hall	750		By sundry expenses		920
To sale of Investment	3000		By book purchased		7500

			By Govt.bond purchases		10,000
			By fixed deposit		
			(on 31.3.14)		5000
			By balance c/d:		
			Cash in hand	400	
			Cash at bank	1500	1900
	33200				33200

14. How the following items will appear in the final a/c of a club for year ending 31.3.19?

Receipts	Rs.	Rs.	Payments	Rs.	Rs.
To subscripted					
2017-2018	5000				
2018-2019	48000				
2019-2020	3000	56000			

There are 300 members in the club each paying an annual subscription of Rs.200 per annum. Subscription still outstanding for the year 2017-2018 is 1000.

15. From the following particulars, calculate total sales.

Particulars	Rs.
Debtors 1.1.17	1,50,000
Bills receivable 1.4.17	40,000
Cash received from debtors	3,90,000
Cash received for Bills receivable	90,000
Bills receivable dishonoured	10,000
Sales return	40,000
Bills receivable on 31.3.18	30,000
Sundry debtors on 31.3.18	1,30,000
Cash sales	2,00,000

IV. Answer the following: 10x1=10

16. From the following particulars of Rakesh, Prepare Trading and Profit and Loss a/c balance sheet for the year ended 31.3.19

Particulars	31.3.18	31.3.19
Stock of goods	2,20,000	1,60,000
Debtors	5,30,000	6,40,000
Cash at Bank	60,000	10,000
Machinery	80,000	80,000
Creditors	3,70,000	4,20,000

Other details:

Particulars	Rs.	Particulars	Rs.
Rent paid	1,20,000	Cash received from debtors	1250000
Discount received	35000	Drawings	100000
Discount allowed	25000	Cash sales	20,000
Cash paid to creditors	11,00,000	Capital 4.4.18	5,20,000

28.11.19 Comprehensive Revision Programme-2 Marks: 40

Std: XII (A,B) AN Computer Science Time:1.15 hrs

I. Choose the correct answer: 5x1=5

1. _____ are functions that build the abstract data type.

   a) Constructors   b) Destructors   c) Concrete data type   d) None

2. _____ separation is necessary between tokens, identifiers or keywords.

   a) Blankspace   b) Whitespace   c) Tab   d) Spaces

3. Which of the following method is automatically executed when an object is created?

   a) _object_( ) b) _del_( )   c) _func_( )   d) _unit_( )

4. _____ is security from unauthorized users.

   a) Data integrity   b) Data consistency c) Redundancy

   d) Data abstraction

5. Which is a python package used for 2D graphics?

   a) matplotlib.pyplot b) matplotlib.pip   c) matplotlib.numpy

   d) matplotlib.pit

II. Answer any 5 of the following in one or two lines: 5x2=10

   Q.No.12 is compulsory

6. Define Data Visualization.

7. What are the advantages of DBMS?

8. What are the E.F Codd Rules?

9. What are self arguments?

10. What are literals? What are its types?

11. What are the different modes that can be used to test Python Program?

12. What is list and Tuple with example.

III. Answer any 5 of the following in brief: 5x3=15

   Q.No.19 is compulsory

13. Identify which of the following are constructors and selectors:

   a) N1=number( )   b) accetnum(n1)

   c) displaynum (n1)   d) eval (a/b)

   e) xy=makesslope(m), makeslope (n)   f) display( )

14. Define the following:

   i) Data abstraction

   ii) Example for rational numbers AN ADT

15. What are the types of comments in python?

16. Write short notes on Escape sequences with eg.

17. Write a class with two private class variables and print the sum using a method.

18. Define Database Structure.

19. Write any three uses of data visualization.

IV. Answer any 2 of the following in detail: 2x5=10

20. Explain the various buttons in a matplotlib.window.

21. Explain the different operators in Relational algebra with suitable examples.

22. What is meant by Token? Name the types of token and explain the types of operators with example.

23. How will you access the multi item? Explain with example.

28.11.19   Comprehensive Revision Programme-2 Marks:40
Std:XII-F,G (AN)   Economics   Time: 1.15 hrs

I. Choose the correct answer: 5x1=5
1. Who wrote the book "The Road to Serfdom"?
    a) Friedrich Hayek   b) H.R.Hicks c) David Ricardo
    d) Thomas Robert Malthus
2. Planning Commission was setup in the year _____.
    a) 1950   b) 1951   c) 1947   d) 1948
3. M.N.Roy was associated with _____.
    a) Congress plan   b) People's plan   c) Bombay plan
    d) None of the above
4. The term Uiin regression equation is _____
    a) Residuals   b) Standard error c) Stochastic error term d) none
5. Sources of secondary data are _____.
    a) Published sources   b) Unpublished sources
    c) neither published nor unpublished sources
    d) Both (A) and (B)

II. Answer any 5 of the following: 5x2=10
6. Define economic development.
7. What is GNP?
8. What are the social indicators of economic development?
9. What are the kinds of statistics?
10. Define Correlation.
11. Define Regression.

III. Answer any 5 of the following: 5x3=15
12. What are the non-economic factors determining development?
13. How would you break the vicious circle of poverty?
14. What are the functions of statistics?
15. State and explain the different kinds of correlation.
16. Mention the uses of Regression Analysis.
17. Discuss the important statistical organizations (offices) in India.

IV. Answer any 2 of the following: 2x5=10
18. Describe different types of planning.
19. Bring out the arguments against planning.
20. Calculate the Karl Pearson correlation co-efficient for the
    following data:

X	45	48	50	55	65	70	75	72	80	85
Y	18	22	23	24	25	26	28	29	30	32

28.11.19   Comprehensive Revision Programme-2 Marks:40
Std:XII (I,J) FN   Commerce   Time: 1.15 hrs

I. Choose the correct answer: 5x1=5
1. How many times a security can be sold in a secondary market?
    a) only one time   b) two times   c) three times
    d) multiple times
2. Risk in the money market is _____.
    a) high   b) market risk   c) low credit and market risk
    d) medium risk
3. The poor quality of selection will mean extra cost on _____ and
    supervision.
    a) Recruitment   b) work quality   c) training
    d) all the above
4. According to _____ "Entrepreneurship is essentially a
    creative activity".
    a) Schumpter Joseph   b) Jean Batize   c) A.H.Cole
    d) Mary Coulter
5. ___ entrepreneur is inspired to take up entrepreneurial activity.
    a) Spontaneous   b) Fabian   c) Drone   d) Induced

II. Answer any 5 of the following: 5x2=10
6. Who are agricultural entrepreneur?
7. List the problems faced by women entrepreneurs.
8. What do you mean by test?
9. What are the instruments of money market?
10. What is Mutual Fund?
11. Write a note on OTCEI.

III. Answer any 5 of the following: 5x3=15
12. How does a professional entrepreneur operate?
13. Distinguish between entrepreneur and manager.
14. List out the significance of placement.
15. What are the types of commercial bill?
16. What are the various kinds of capital market? Explain.
17. Explain two functions of capital market.

IV. Answer any 2 of the following: 2x5=10
18. Discuss the nature of functional entrepreneurs.
19. What are the characteristics of an entrepreneur?
20. Explain the important methods of interview.

I. Choose the correct answer: 10x1=10

1. If A=(1 2 3) then the rank of AA^T is _____.
    a) 0   b) 2   c) 3   d)1

2. The rank of the unit matrix of order 'n' is _____.
    a) n-1   b) n   c) n+1   d) n^2

3. If $|A| \neq 0$ then A is _____ matrix.
    a) Singular   b) Non-singular   c) Zero   d) Diagonal

4. Rank of a null matrix is _____.
    a) 0   b) -1   c) ∞ d) 1

5. If $(A)= \rho(AB)$ then the system is _____.
    a) Consistent b) Inconsistent   c) Trivial   d) Non-trivial

6. In an assignment problem the value of decision variable x_{ij} is ____.
    a) 1   b) 0   c) 1 or 0   d) none of these

7. A type of decision-making environment is _____.
    a) Certainty   b) Uncertainty   c) Risk   d) All the above

8. North-west corner refers to _____ corner.
    a) Top left   b) Top right   c) Bottom right   d) Bottom left

9. Solution for transportation problem using _____ method is nearer to an optimal solution.
    a) NWCM   b) LCM   c) VAM   d) Row Minima

10. The penalty in VAM represents difference between the first _____.
    a) Two largest costs   b) Largest and smallest costs
    c) Smallest two costs   d) None of these

II. Answer any 5 of the following: 5x3=15

11. Find the rank of $\begin{pmatrix} 1 & -2 & 3 & 4 \\ -2 & 4 & -1 & -3 \\ -1 & 2 & 7 & 6 \end{pmatrix}$

12. Find k, if the equations x+y+z=7, x+2y+3z=18, y+kz=6 are inconsistent.

13. Solve x+y+z=4, 2x-y+3z=1, 3x+2y-z=1 by Cramer's Rule.

14. Two types A and B soaps are in the market. Their present market shares are 15% for A and 85% for B. Of these who bought A the previous year, 65% continue to buy it again while 35% switch over to B. Of those who bought B the previous year 55% buy it again while 45% switch over to A. Find their market shares after two years.

15. Consider the following pay-off matrix

Alternative	Pay-offs			
	A_1	A_2	A_3	A_4
E_1	7	12	20	27
E_2	10	9	10	25
E_3	23	20	14	23
E_4	32	24	21	17

16. Find the optimal solution for the assignment problem with following cost matrix.

	Area		
	P	Q	R
A	120	100	80
Salesman B	80	90	110
C	110	140	120

III. Answer any 3 of the following: 3x5=15

17. Obtain an initial basic feasible solution to the transportation problem by North-West corner method.

	D	E	P	C	Available
A	11	13	17	14	250
B	16	18	14	10	300
C	21	24	13	10	400
Required	200	225	275	250	

18. Consider the following transportation problem. Determine the feasible solution by VAM.

	D_1	D_2	D_3	D_4	Availability
O_1	5	8	3	6	30
O_2	4	5	7	4	50
O_3	6	2	4	6	20
Requirement	30	40	20	10	

19. Investigate for what values of 'a' and 'b' the equations x+y+z=6, x+2y+3z=10, x+2y+az=b have (i) No solution (ii) unique (iii) IMS

20. A total of ₹ 8500 was invested in three interest earning accounts. The interest rates were 2%, 3% and 6% if the total S.I for one year was ₹ 380 and the amount invested at 6% was equal to the sum of the amounts in the other two accounts then how much was invested in each account? (Use Cramer's Rule).

Everwin Matric. Hr. Sec. School
28.11.19   Comprehensive Revision Programme-2   Marks:40
Std:XII (C-E) FN   Mathematics   Time: 1.15 hrs

I. Choose the correct answer: 10x1=10

1. Consider a game where the player tosses a six-sided fair die. If the face that comes up is 6, the player wins ₹36, otherwise he loses ₹k^2, where k is the face that coms up k={1,2,3,4,5}. The expected amount to win at this game in ₹ is _____.

   a) $\frac{19}{6}$ b) $-\frac{19}{6}$ c) $\frac{3}{2}$ d) $-\frac{3}{2}$

2. A random variable X has binomial distribution with n=25 and p=0.8 then standard deviation of X is _____.

   a) 6   b) 4   c) 3   d) 2

3. If the function $f(x)=\frac{1}{12}$ for a<x<b, represents a probability density function of a continuous random variable X, then which of the following cannot be the value of a and b?

   a) 0 and 12   b) 5 and 17   c) 7 and 19   d) 16 and 24

4. Two coins are to be flipped. The first coin will land on heads with probability 0.6, the second with probability 0.5. Assume that the results of the flips are independent, and let X equal the total number of heads that result. The value of E[X] is _____.

   a) 0.11   b) 1.1   c) 11   d) 1

5. On a multiple-choice exam with 3 possible destructives for each of the 5 questions, the probability that a student will get 4 or more correct answers just by guessing is _____.

   a) $\frac{11}{243}$ b) $\frac{3}{8}$ c) $\frac{1}{243}$ d) $\frac{5}{243}$

6. If P(X=0)=1-P(X-1). If E[X]=3VAr(X), then P(X=0) is _____.

   a) $\frac{2}{3}$ b) $\frac{2}{5}$ c) $\frac{1}{5}$ d) $\frac{1}{3}$

7. Suppose that X takes on one of the values 0, 1 and 2. If for some constant k, P(X=i)=kP(X=i-1) for i=1,2 and P(X=0)=$\frac{1}{7}$, then the value of k is _____.

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

8. If $f(x)=\begin{cases} 2x & 0\leq x\leq a \\ 0 & \text{otherwise} \end{cases}$

is a probability density function of a random variable, then the value of a is _____.

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

9. For binomial random variable mean (μ) is _____.

   a) npq   b) np   c) np^2 d) n+p

10. The numberical values to the elements in sample space is called _____.

   a) Random variable   b) Continuous variable

   c) Outcomes   d) Inverse Image

II. Answer any 3 of the following: 3x2=6

11. Suppose two coins are tossed once. If X denotes the number of tails write the sample space and find the inverse image of 1.

12. The probability of density function of x is given by

$f(x) =\begin{cases} Kxe^{-2x} & \text{for } x>0 \\ 0 & \text{for } x\leq 0 \end{cases}$

find the value of K.

13. Compute P(X=K) for the binomial distribution B(n,p) where n=9, p=$\frac{1}{2}$, K=7

14. Using binomial distribution find the mean and variance of X for a fair coin is tossed 100 times and x denote the number of heads.

III. Answer any 3 of the following: 3x3=9

15. For the random variable x with the given probability mass function as below, find the mean and variance of

$f(x)=\begin{cases} 2(x-1) & 1<x<2 \\ 0 & \text{Otherwise} \end{cases}$

16. If x is the random variable with distribution function F(x) is

given by $F(x)=\begin{cases} 0, & 0<0 \\ x, & 0\leq x<1 \\ 1, & 1\leq x \end{cases}$

17. The mean and variance of a binomial variate x are 2 and 1.5

Find $P(x\geq 1)$

18. A random variable x has the following probability mass

Function

x	1	2	3	4	5
f(x)	K^2	$2K^2$	$3K^2$	$2K$	$3K$

Find (i) the value of K (ii) P(3<x)

19. An urn contains 5 mangoes and 4 apples. Three fruits are
taken at random. If the number of apples taken is a random
variable then find the values of the random variable and
number of points in its inverse images.

IV. Answer any 3 of the following: 3x5=15

20. The cumulative distribution function of a discrete random
variable is given by

$$F(x)=\begin{cases} 0 & -\infty<x<-1 \\ 0.15 & -1\leq x<0 \\ 0.35 & 0\leq x<1 \\ 0.60 & 1\leq x<2 \\ 0.85 & 2\leq x<3 \\ 1 & 3\leq x<\infty \end{cases}$$

Find (i) the probability mass function (ii) P(X<1) and

(iii) $P(X\geq 2)$

21. Suppose the amount of milk sold daily at a milk booth is
distributed with a minimum of 200 litres and a maximum of
600 litres with probability density function

$f(x)=\begin{cases} K & 200\leq x\leq 600 \\ 0 & \text{otherwise} \end{cases}$

Find (i) the value of K (ii) the distribution function

(iii) the probability that daily sales will fall between 300 litres

and 500 litres?

22. On the average 20% of the products manufactured by ABC
Company are found to be defective. If we select 6 of these
products at random and X denotes the number of defective
products find the probability that (i) two products are
defective (ii) at most one product is defective.

23. A six sided die is marked '2' on one face, '3' on two of its faces
and '4' on remaining three faces. The die is thrown twice. If x
denotes the total score in two throws, find the values of the
random variable and number of points in its inverse image.

28.11.19   Comprehensive Revision Programme-2   Marks:40

Std:XII (H-J) AN   Computer Application   Time: 1.15 hrs

I. Choose the correct answer: 5x1=5

1. _____ command is used to delete a database.
    - a) Delete database_name
    - b) Delete database database_name
    - c) drop database database_name
    - d) drop database_name

2. Which of the below symbols is a newline character?
    - a) \r   b) \n   c) /n   d) /r

3. Match the following:
    (i) domain   - 1. Progress that initiates translation
    (ii) zone   - 2. Contains database of domain names
    (iii) name server -3. Single node
    (iv) resolver   - 4. Contiguous nodes
    - a) (i)-1 (ii)-4 (iii)-3 (iv)-2   b) (i)-3 (ii)-4 (iii)-2 (iv)-1
    - c) (i)-3 (ii)-2 (iii)-1 (iv)-4   d) (i)-3 (ii)-4 (iii)-1 (iv)-2

4. Secure Electronic Transaction (SET) was developed in _____.
    - a) 1999   b) 1996   c) 1969   d) 1997

5. UNSM stands for _____.
    - a) Universal Natural Standard message
    - b) Universal Notations for simple message
    - c) United Nations Standard message
    - d) United Nations Service message

II. Answer any 5 in short: (Q.no.8 is compulsory)   5x2=10

6. List few disadvantages of file processing system.

7. Define Client Server Architecture.

8. What is a resolver?

9. What is a domain?

10. Define non-repudiation.

11. Write a note on EDIFACT segment.

III. Answer any 5 in brief: (Q.no.14 is compulsory)   5x3=15

12. Discuss on cardinality in DBMS.

13. Define Foreign key.

14. Write the purpose of web servers.

15. Differentiate Domain name and URL.

16. List some E-commerce security threats.

17. Write a note on PGP.

18. List the various layers of EDI.

IV. Answer any 2 in detail: 2x5=10

19. Write about the structure of EDIFACT.

20. Explain various types of E-commerce threats.

21. Explain how the DNS is working.