BCA/M-22   **1872**

ADVANCED PROGRAMMING IN C

BCA-121

Time : Three Hours]   [Maximum Marks : 80

Note : Q. No. 1 is compulsory. In addition, attempt *four* more questions selecting exactly *one* question from each Unit. All questions carry equal marks.

Compulsory Question

1. (a) Describe various ways to input a string.

   (b) What is meant by enumeration ?

   (c) Name the various operations that can't be applied on pointers.

   (d) State some applications of pointer to pointer.

   (e) Name the various modes in which a file can be opened in C.

   (f) Name the various types of error handling functions in C.

   (g) How a symbolic constant is defined in C ?

   (h) How can you undefine a macro ?   **8×2=16**

Unit I

2. Write a program in C to insert a string in a given text. 16

3. How can you create the following in C :
   (i) Array of structures
   (ii) Structures within structures
   (iii) Passing structures through function
   (iv) Union of structures. 16

Unit II

4. How can you perform dynamic memory allocation in C ?
   Explain using suitable program in C. 16

5. Explain the concept of pointer to pointer and handling arrays using pointers by writing suitable programs. 16

Unit III

6. Explain the following functions in C using suitable examples :
   (i) ftell( )   (ii) fscanf( )
   (iii) fwrite( )   (iv) fgets( ) 16

7. Write a program in C to read the contents of a file, covert the tab spaces with spaces and display the contents of the file. 16

Unit IV

8. (a) Explain the following using suitable examples in C :
   (i) #ifdef   (ii) #error. 8
   (b) Describe the various predefined macro names in C. 8

9. Write a program in C to read a number from command line argument and find the sum of the digits of the number. Also check for errors, if any, in command line arguments. 16

BCA/M-22

1873

LOGICAL ORGANISATION
OF COMPUTER-II

BCA-122

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

1. (a) Presetting and clearing of a flip-flop.

    (b) Binary counters.

    (c) Laser printer

    (d) Trap Interrupt.

Unit I

2. What do you mean by race around condition ? How will you eliminate it ?

3. (a) What is a latch ? Explain working of a clocked SR flip-flop.

    (b) Differentiate D-type and T-type flip-flop.

Unit II

4. (a) Explain Serial In and Parallel Out 4-bit register.

   (b) How will you convert a shift register as a ring counter ? Explain.

5. (a) What do you mean by Synchronous and Asynchronous binary counters ?

   (b) Explain 4-bit Up-Down counter with timing diagrams.

Unit III

6. (a) What do you mean by Flash Memory ? Explain.

   (b) Differentiate between RAM and ROM. Describe various types of ROM.

7. (a) Discuss various Memory Parameters.

   (b) Describe Magnetic and Optical Storage Devices.

Unit IV

8. (a) Explain fetch and execute operation for executing LOAD instructions.

   (b) Describe various Instruction Formats with examples in detail.

9. (a) Explain Program Controlled and Interrupt driven 1 data transfer techniques.

   (b) Explain IOP.

BCA/M-22

MATHEMATICAL FOUNDATIONS-II

BCA-123

Time : Three Hours] [Maximum Marks : 80

Note : Attempt *Five* questions in all. Q. No. 9 is compulsory. Attempt *one* question from each Unit.

Unit I

1. (a) Show that $((\sim p)\wedge q)\wedge(q\wedge r)\wedge(\sim q)$ is a tautology. 8

   (b) If p and q be any statements, then construct the truth table of the following statements : 8

   (i) $(\sim p\vee q)\wedge(\sim p\wedge\sim q)$

   (ii) $(p\Leftrightarrow\sim q)\Leftrightarrow(q\Rightarrow p)$

2. (a) Using Principle of Mathematical Induction, prove that for all $n\in N$, 8

$$\frac{1}{1.2}+\frac{1}{2.3}+\frac{1}{3.4}+......+\frac{1}{n(n+1)}=\frac{n}{n+1}$$

   (b) Prove that $3^{2n+2}-8n-9$ is divisible by 64 for all $n\in N$. 8

Compulsory Question

9. (i) Define a Coset. 2

(ii) Define Null Ring. 2

(iii) Identify the quantifiers and write the negation of the statement : 2

"Some diseases are curable and not infectious".

(iv) Define symmetric matrix with example. 2

(v) Find the spectrum of the matrix : 2

$$\begin{bmatrix} 5 & 0 & 3 \\ 0 & -1 & 0 \\ 0 & 0 & 7 \end{bmatrix}$$

(vi) Prove that $A - A^\theta$ is a Skew-Hermitian matrix if A is a square matrix. 2

(vii) If a matrix A is singular, then prove that 'O' is a latent root of A. 2

(viii) Let S = {0, 1, 2, 3, 4, 5}. Write composition table for S with respect to 'addition modulo 6'. 2

3. (a) Show that the set $G = \{1, \omega, \omega^2\}$ is a group with respect to multiplication. Here 1, ω and ω^2 are cube roots of unity. **8**

(b) Find the order of the elements of the group $G = \{0, 1, 2, 3, 4\}$ under the binary operation 'multiplication modulo 5'. **8**

4. (a) Show that the set of matrices $\begin{bmatrix} a & b \\ 0 & c \end{bmatrix}$ is a subring of the ring of 2×2 matrices with integral elements. **8**

(b) Prove that the set of real numbers is a field with respect to addition and multiplication. **8**

Unit III

5. (a) If $2X + 3Y = \begin{bmatrix} 2 & 3 \\ 4 & 0 \end{bmatrix}$ and $3X + 2Y = \begin{bmatrix} -2 & 2 \\ 1 & -5 \end{bmatrix}$, then find X and Y. **8**

(b) Find the inverse of the matrix :

$$A = \begin{bmatrix} 1 & 1 & 3 \\ 1 & 3 & -3 \\ -2 & -4 & -4 \end{bmatrix}$$ **8**

6. (a) Find the rank of the matrix :

$$A = \begin{bmatrix} 2 & -3 & 4 \\ -1 & -1 & 1 \\ 4 & -1 & 2 \end{bmatrix}$$ **8**

(b) Solve the following system of equations by Matrix method : **8**

$$3x + y + 2z = 3$$
$$2x - 3y - z = -3$$
$$x + 2y + z = 4$$

Unit IV

7. Find the characteristic roots and the corresponding vectors for the following matrix : **16**

$$\begin{bmatrix} 1 & 0 & 2 \\ 0 & 2 & 1 \\ 2 & 0 & 1 \end{bmatrix}$$

8. Verify Cayley-Hamilton theorem and compute A^{-1} for the following matrix : **16**

$$A = \begin{bmatrix} 2 & 1 & 2 \\ 5 & 3 & 3 \\ 1 & 0 & 2 \end{bmatrix}$$

BCA/M-22   1875

OFFICE AUTOMATION TOOLS

BCA-124

Time : Three Hours]   [Maximum Marks : 80

Note : Q. No. 1 is compulsory. Attempt *Five* questions in all, selecting *one* question from each Unit in addition to compulsory Q. No. 1. All questions carry equal marks.

1. (a) Discuss briefly features of Adobe Frame Maker.
                                                        3

    (b) What do you understand by Hyphenation in Page Maker ? Explain briefly.   3

    (c) Discuss briefly Format Painter used in MS-Word.
                                                        3

    (d) What is slide sorter view ?   3

    (e) What is the purpose of Autofit option in MS-Word ?   2

    (f) Write down steps to insert a shape in a slide. 2

Unit I

2. (a) What is Desktop Publishing (DTP) ? Why is it required ? Explain.   8

    (b) Discuss various common features of DTP.   8

3. Write short notes on the following : 16

(a) Corel Ventura

(b) Adobe Photoshop

(c) Control Palette

(d) Pasteboard.

Unit II

4. (a) What is character formatting ? Explain various options available in Character Specifications dialog box in PageMaker. 8

(b) What is the procedure to set page size and page margin in a publication ? Explain with a suitable example. 8

5. (a) What is the purpose of Undo and Revert options in PageMaker ? Describe. 8

(b) What do you mean by Paragraph Rules ? Discuss different steps to add rules to Paragraphs. 8

Unit III

6. (a) Discuss various steps to change font and font size in MS-Word document. 8

(b) Explain various methods to create a table in MS-Word document. How can cells be merged of a given table ? 8

7. (a) What is mail merge ? Discuss mail merge giving a suitable example. 8

(b) Discuss steps to insert Special Symbols in a document. 8

Unit IV

8. (a) Explain briefly various features of PowerPoint. 8

(b) What are Background styles in PowerPoint ? Discuss steps to apply background style to a given presentation. 8

9. (a) Discuss steps to link Excel worksheet to a slide. 8

(b) Explain various steps to add recorded sound effect in a slide 8

BCA/M-22

1877

BCA-126

Personality Development

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory. *Four* more questions are to be attempted, selecting *one* question from each Unit. All questions carry equal marks.

(Compulsory Question)

1. Write short notes on the following :

4×4=16

(a) Deranged personality

(b) Oral presentation

(c) Group Dynamics

(d) Types of Interviews.

Unit I

2. Explain the advantages as well as the disadvantages of written form of communication.

16

3. Discuss the basic social etiquettes.

16

Unit II

4. Discuss the factors that are responsible for blocking Interpersonal Skills.

   16

5. Attempt a detailed account of the various things that have to be taken care of white dealing with Juniors.

   16

Unit III

6. Discuss in detail the ingredients and advantages of Group Discussion.

   16

7. Attempt a detailed account of effective presentation skills.

   16

Unit IV

8. Attempt a detailed account of the various factors responsible for the success of an interview.

   16

9. Draft an application for the post of a Sales Executive and also write down the resume.

   16

BCA/M-22   **1878**

ADVANCED DATA STRUCTURE

BCA-241

Time : Three Hours]   [Maximum Marks : 80

Note : Q. No. **1** is compulsory. Attempt *Five* questions in all, selecting *one* question from each Unit in addition to compulsory Q. No. **1**. All questions carry equal marks.

1. (a) What is binary search tree ? Describe applications of binary search trees.   3

   (b) Explain briefly adjacency matrix with a suitable example.   3

   (c) Compare linear and library search algorithm.   3

   (d) What are the advantages of direct file organization ?   3

   (e) What do you mean by hashing ?   2

   (f) Define path matrix.   2

Unit I

2. (a) Discuss various methods of representation of binary tree in computer memory.   8

(b) Write recursive algorithm for preorder traversal of binary tree. 8

3. (a) Write algorithms for deletion of a node in binary search tree. 8

(b) What is expression tree ? Explain with a suitable example. 8

Unit II

4. (a) What is weighted graph ? Describe with a suitable example. 8

(b) Write Warshall's algorithm for the shortest path. 8

5. Write short notes on the following : 16

(a) Tree Graph (b) Isolated Node

(c) Adjacency List (d) Depth First Traversal.

Unit III

6. (a) Write an algorithm to sort a given list of elements using quick sort method. 8

(b) Explain tournament sort with a suitable example. 8

7. (a) What is merging ? Write an algorithm to sort a given list using merge sort technique. 8

(b) Explain radix sort using an example. What is the complexity of radix sort algorithm ? 8

Unit IV

8. (a) Explain different types of file depending on their function. 8

(b) What is file organization ? Explain sequential file organization. 8

9. (a) What is collision ? Discuss various collision resolution techniques. 8

(b) Differentiate indexed sequential and direct file organization. 8

BCA/M-22   1879

COMPUTER APPLICATIONS

Advanced Programming using C++

BCA-242

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all. Q. No. **1** is compulsory.
Attempt *four* questions by selecting *one* question from
each Section.

1. (a) Explain virtual destructors.   4

    (b) Define inheritance and its access specifiers.   4

    (c) Explain the role of constructors in Inheritance with
         example.   4

    (d) Explain need of templates in C++.   4

Section I

2. (a) Explain various types of polymorphism in detail. 8

    (b) What is virtual function ? Explain its need and
         rules for virtual functions.   8

3. (a) Explain abstract class with examples.   8

    (b) What is a constructor ? Explain its characteristics
         and types in C++.   8

Section II

4. Explain super-class and sub-class with suitable example. What are the implications of private, public and protected access specifiers ? **16**

5. What is protected access specifier ? How do you make protected member inheriable ? **16**

Section III

6. What is function template and its need ? Also explain overloading of template functions and function templates with multiple parameters. **16**

7. Explain different forms of inheritance with suitable example. **16**

Section IV

8. Explain exception with suitable examples. Explain various ways and mechanism to handle exceptions in C++. **16**

9. What is a file and how to declare it ? Explain two methods to open a file with examples. Also explain methods of detecting end of file. **16**

Total Pages : 03

BCA/M-22

1880

E-COMMERCE

BCA-243

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

1.   (a)   Explain various applications of B2C.

     (b)   What do you mean by Credit Card and Smart Card ?

     (c)   Explain characteristics of the Supplier-Oriented Market Place.

     (d)   Discuss Broker-Based Services.   4×4=16

Unit I

2.   (a)   What is e-Commerce ? Explain its features and models with example.   8

     (b)   Discuss the following :   8

           (i)   Secure Hyper Text Transfer Protocol (SHTP)

           (ii) Secure Electronic Transaction (SET).

3. (a) What do you mean by Electronic Payment System ? Explain NEFT and RTGS in detail. **8**

   (b) What are the Management issues to e-Commerce ? **8**

Unit II

4. Explain the concept of EDI (Electronic Data Interchange). How is EDI different from Traditional Paper Based System of document transfer ? **16**

5. (a) Explain different e-Governance Models in detail. **8**

   (b) Explain e-Taxation and e-Tendering in e-Governance. **8**

Unit III

6. What do you mean by e-Broker Business ? Explain different factors that are necessary to make e-Broker Business Successful. **16**

7. Explain the following : **2×8=16**

   (a) e-Auctions

   (b) Online Stock Trading.

Unit IV

8. Explain the following : **4×4=16**

   (a) Retail Model

   (b) Media Model

   (c) Made-to-Order Manufacturing Model

   (d) Advisory Model.

9. Explain B2B and its applications. Explain architectural models of B2B in detail. **16**

BCA/M-22   **1881**

RELATIONAL DATABASE MANAGEMENT

SYSTEM

BCA-244

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (a) Explain relational constraints with example. **4**

    (b) Write a short note on transitive functional dependency with suitable example. **4**

    (c) What is SQL ? Elaborate on SQL operators with suitable examples. **4**

    (d) Explain PL/SQL data types. **4**

Unit I

2. What is the purpose of Codd's rules ? Explain various Codd's rules for Relational Model. **16**

3. Define Relational Algebra. Explain various operations in Relational Algebra. **16**

Unit II

4. Explain various types of normal form with suitable examples. 16

5. Define Normalization. What is the purpose of normalization ? Explain various update anomalies along with the concept of functional dependency. 16

Unit III

6. Explain DML and DCL Commands in SQL along with suitable examples. 16

7. Explain the concept of Query, View and Indexes in SQL with suitable examples. 16

Unit IV

8. Explain various control structures in PL/SQL along with suitable examples. 16

9. Define cursors in PL/SQL. Elaborate the concept of cursors in detail and give appropriate examples. 16

BCA/M-22   **1882**

COMPUTER ORIENTED STATISTICAL

METHODS

BCA-245

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. (a) The waiting time for a commutive are given below as :

   11.6, 11.3, 10.7, 18.0, 3.3, 9.2, 8.3, 3.8, 8.0

   Find the median time.   **3**

   (b) Define arithmetic mean, deviation and variance of a distribution.   **3**

   (c) A card is drawn from a well shuffled pack of playing cards (52). Find the probability that the card is a honour card (King, queen and ace cards are honour cards) ?   **3**

   (d) Throw that shift of origin has no effect on the co-efficient of correlation (r_{xy}) ?   **3**

   (e) Compute arithmetic mean of binomial distribution. **2**

(f) Differentiate forecasting and prediction in business forecasting. 2

Unit I

2. The distribution of age of males at the time of marriage was as follows :

Age :	No. of males :
18-20	5
20-22	18
22-24	28
24-26	37
26-28	24
28-30	22

Find at the time of marriage :

(a) Average Age

(b) Model Age

(c) Median Age. **5,5,6**

3. (a) Given distribution as :

X : 5 10 15 20 25 30
f : 2 4 5 6 1 2

Calculate first fair moments μ_1, μ_2, μ_3, and μ_4 about arithmetic mean $(\overline{X})$. 8

(b) The arithmetic mean of two numbers is 13 and their geometric mean is 12. Find :

(i) Numbers

(ii) Their Harmonic Mean. 8

Unit II

4. (a) Let A and B be two events and probality of A, $P(A) = \frac{1}{2}$, $P(B) = \frac{1}{3}$ and $P(A \cap B) = \frac{1}{4}$. Obtain $P(A/B)$, $P(A \cup B)$ and $P(\overline{A} \cap \overline{B})$. 8

(b) Fit a binomial distribution for the following distribution : 8

Value (X_i) :	0	1	2	3	4
Frequency (f_i) :	28	62	46	10	4

5. (a) Calculate Karl Pearson coefficient of correlation for the pair of heights (X_i) and heights (Y_i) are as : 8

X_i :	60	62	64	66	68	70	72
Y_i :	61	63	63	63	64	65	67

(b) The ranks of two attributes in a sample are as given below : 8

R_1 :	1	2	3	4	5
R_2 :	5	4	3	2	1

Find ranks correlation coefficient.

Unit III

6. (a) From two regression equations : 8

$$4y = 9x + 15$$
$$25x = 6y + 7$$

Find r_{xy} correlation coefficient, $\overline{X}$ (mean of X_i) and $\overline{Y}$.

(b) The following calculations have been made for closing prices of 12 stocks (X_c) on Mumbai Stock Exchange on a certain day along with the volume of sales in thousands of shares (Y_i) from these calculations :

$\Sigma x_i = 580,$ $\Sigma y_i = 370,$ $\Sigma x_i y_i = 11494,$
$\Sigma x_i^2 = 41658.$ $\Sigma y_i^2 = 17206$

Find regression equations. **8**

7. (a) Fit a straight line $y = ax + b$ to the following date as : **8**

X_i :	1	2	3	4	5
Y_i :	1200	900	600	200	110

(b) Three stores S_1, S_2 and S_3 each has 20 pieces of an item. The stores S_1, S_2 and S_3 have 10%, 20% and 30%, defective items respectively. A customer first choses a store randomly and solids an item from the store. Find the probability of the selected item is defective. **8**

Unit IV

8. (a) Define student t-test. What kind of hypothesis can be tested by the t-test ? **8**

(b) The life expectancy of people in India in year 1970 is expected to be 50 years. A survey was conducted in 11 regions of India and obtained :

Life in years : 54.2, 50.4, 44.2, 49.7, 55.4, 57.0, 58.2, 56.6, 61.9, 57.5, 53.4.

Do the data confirm the expectancy at 5% level of significance (Value of t at 5% is 2.228 for 10 degree of freedom) ? **8**

9. Write notes on the following : **8**

(a) Chi-square (χ^2) test in 2×2 contingency table **8**

(b) Analysis of variance (ANOVA). **8**

BCA/M-22

1884

WEB DESIGNING USING ADVANCE
TOOLS

BCA-361

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *five* questions in all, selecting *one* question
from each Unit. Q. No. 1 is compulsory.

Compulsory Question

1. (a) Write down the full form of HTML, DHTML, XML,
         SGML.   4

    (b) What do you mean by a Web Page ?   3

    (c) Define a Web Brower.   3

    (d) Briefly introduce Flow Object.   3

    (e) Write down all types of ASP Objects.   3

Unit I

2. (a) Distinguish between Java and Javascript.   8

    (b) Explain the features, advantages and limitations of
         Javascript.   8

3. (a) Using suitable example explain the user-defined functions in VBscript. 8

(b) With the help of appropriate examples differentiate between subroutine and function 8

Unit II

4. (a) Using appropriate examples explain macromedia flash along with its features. 8

(b) How HTML and dreamweaver is related to each other ? 8

5. What do you mean by a scripting language ? Explain the features and the available datatypes in ASP. 16

Unit III

6. Explain the following DHTML tags along with proper examples :

   (a) <div>   (b) <span>

   (c) <marquee>   (d) Style attribute. 4×4

7. Using appropriate examples explain the filters and transitions available in DHTML. 16

8. (a) Differentiate between :
      (i) XML and HTML.
      (ii) HTML and DHTML. 4

   (b) What do you mean by valid documents in XML ? Give suitable examples also. 8

9. Explain the building blocks of XML document. 16

BCA/M-22

1885

OPERATING SYSTEM-II

BCA-562

Time : Three Hours]

[Maximum Marks : 80

Note : Q. No. **1** is compulsory. In addition to that, attempt *four* more questions, selecting *one* question from each Unit. All questions carry equal marks.

(Compulsory Question)

1. (a) What is critical section ? What are the requirements for critical section solution ? 4

    (b) Discuss Remote File Transfer. 4

    (c) How can the ownerships of files be viewed and changed in Linux ? Discuss using examples. 4

    (d) Write a note on different modes of vi editor. How do we delete text in vi editor ? 4

Unit I

2. Discuss various classical problems of synchronization. How semaphores can be used for the solution of these problems ? 16

3. What do you understand by directory system ? Explain various directory structures in detail. 16

Unit II

4. (a) What is swap space management ? Also discuss the following :   10
       (i) Swap space use
       (ii) Swap space location.
   (b) Discuss SCAN and C-SCAN disk scheduling algorithms using examples.   6

5. Discuss the following w.r.t. distributed operating system :   16
       (i) Data Migration
       (ii) Process Migration.

Unit III

6. (a) Discuss the purpose and general format of process oriented commands using examples.   8
   (b) Explain the following file handling commands using examples :   8
       (i) wc
       (ii) split
       (iii) comm
       (iv) cmp.

7. (a) Explain the Linux commands that are used for arithmetic operations.   6
   (b) Discuss the architecture and distributions of Linux.   10

Unit IV

8. (a) Explain the process of starting/shutting down and logging in/out in Linux operating system.   8
   (b) Discuss various job control commands in Linux using examples.   8

9. (a) What is a shell script ? Explain the *two* types of shell variables.   8
   (b) Write a shell script to reverse a string entered by the keyboard and remove the blank spaces between the words, if any.   8

BCA/M-22

1886

COMPUTER GRAPHICS

BCA-363

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

1. (a) State the major difference between interactive and passive graphics.

   (b) State the various types of coordinate representations.

   (c) What is scan conversion ?

   (d) What are the various disadvantages of flood fill algorithm ?

   (e) Enlist the various geometric transformations.

   (f) Enlist the various pointing devices used in computer graphics.

   (g) Differentiate between window and viewport.

   (h) What is composite transformation ?   8×2=16

Unit I

2. (a) What is Computer Graphics ? Discuss its major applications. 8

   (b) Explain the working along with pros and cons of any *two* display devices use in computer graphics. 8

3. (a) Compare and contrast the random scan and raster scan mechanisms. 8

   (b) What is a display processor ? How does it work ? Explain. 8

Unit II

4. Write down the algorithm for drawing a line using Bresenham's line drawing algorithm for slopes less than 45° and also explain which raster locations will be chosen by Bresenham's algorithm when scan converting a line from screen coordinates (2, 2) to screen coordinates (8, 5). 16

5. (a) Write down the steps to scan-convert an ellipse using trigonometric method. 8

   (b) Write down the steps to generate a circle using the polynomial method. 8

Unit III

6. (a) What are the new coordinates of the point P(4, −4) after the rotation by 30° about the origin ? 8

   (b) What is Shearing ? How is it performed ? Explain using suitable examples. 8

7. Explain the various positioning techniques used in computer graphics in detail. 16

Unit IV

8. What is meant by line clipping ? Write and explain any *two* algorithms for line clipping. 16

9. How can you perform (i) Scaling (ii) Translation (iii) Rotation (iv) Reflection. in three-dimensional transformation ? 16

Total Pages : 03

BCA/M-22

1887

INTERNET TECHNOLOGY

BCA-364

Time : Three Hours]

[Maximum Marks : 80

Note : Question No. **1** is compulsory. In addition attempt *four* more questions, selecting *one* question from each Unit. All questions carry equal marks.

1. Attempt all the following :   4×4=16

   (a) IP Addressing

   (b) UDP

   (c) Telnet

   (d) MIME.

Unit I

2. Explain various internet services. Explain the following terms related to internet : web server, search engines, URL, HTTP, Web Browsers, USENET and NNTP.   16

3. Explain TCP/IP reference model and its architecture, layers and protocols. Distinguish between OSI and TCP/IP reference model.   16

P.T.O.

Unit II

4. Describe TCP. What are various fields of TCP Header ? 4×4=16

   Explain TCP connection management in detail. 16

5. Explain the following terms with header format : 4×4=16

   (a) IPv6

   (b) ARP

   (c) IGMP

   (d) ICMP.

Unit III

6. Explain the following terms : 4×4=16

   (a) SMTP

   (b) RTP

   (c) RSVP

   (d) Voice and video over IP.

7. (a) Explain e-Mail Architecture and Services. 8

   (b) What do you mean by FTP ? Explain data transfer in FTP. 8

Unit IV

8. (a) Explain Routing Information Protocol in detail. 8

   (b) What is Internet Security ? Explain IPSec in detail. 8

9. Explain the following terms : 4×4=16

   (a) BGP

   (b) Mobile IP

   (c) NAT

   (d) Firewall.

Total Pages : 02

BCA-/M-22   1888

ADVANCED PROGRAMMING WITH VISUAL BASIC

Paper : 365

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

1. (a) How to declare dynamic array in VB ?   3

    (b) What is the difference between load and show method of form ?   4

    (c) What is Dynamic Menu ?   3

    (d) Define RDO.   3

    (e) Explain Scale Mode property of graphics.   3

Unit I

2. Distinguish between the following :   8×2=16

    (i) Unload and hide method

    (ii) Form-Load and Active Events.

3. Explain collection with its methods and properties with the help of example.   16

Unit II

4. Write short notes on the following :   4×4=16

   (a)   Rich text box
   (b)   List View
   (c)   Slide Control
   (d)   Image List.

5. How can we manipulate menu at run time ? Explain all the menu commands for creating dynamic menu.   16

Unit III

6. What type of components comprise a sequential file ? What are the advantages of sequential file ?   16

7. (a)   Explain the following graphics methods by using example :   4×2=8
      (i)   pset
      (ii) circle

   (b)   Explain picture box control. Write its properties.   8

Unit IV

8. Explain the Visual Basic Data Access Objects.   16

9. Explain data controls and data bound controls with its properties.   16

BCA/M-22

1889

PROGRAMMING IN CORE JAVA

BCA-366

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory.
Attempt *four* more questions. selecting exactly *one*
question from each Unit.

Compulsory Question

1. (a) State the major features of object-oriented
programming.

(b) What is the purpose of labelled break and continue ?

(c) How can you create a class in Java ?

(d) State the major difference between String and
StringBuffer classes.

(e) What is meant by inheritance ?

(f) Name and state purpose of any *two* pre-defined
packages.

(g) What is an exception ?

(h) State the purpose of AWT.

8×2=16

Unit I

2. (a) Explain Java Run-Time Environment in detail. 8
   (b) Describe various operators in java in brief. 8

3. (a) What are the various features of Java ? Explain in detail. 8
   (b) What are the various ways to perform I/O in Java ? 8

Unit II

4. Explain the concept of various types of constructors in java with the help of examples. Also discuss how garbage collection is done in java. 16

5. What is meant by overloading and overriding ? How are these implemented in Java ? Explain both by writing program for both. 16

Unit III

6. Explain multiple inheritance in java by writing a program. 16

7. How can you create a user-defined package in Java ? Explain by creating a package and using that package. 16

Unit IV

8. What is a user-defined exception ? Explain by writing an appropriate example. 16

9. What is an Applet ? Write a program in java to pass parameters to an applet at run-time. 16

OPERATING SYSTEMS–II

BVSD-21

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (a) What are various attributes of a file ?   4

   (b) Discuss inter-process communication.   4

   (c) What is starvation ?   4

   (d) What is shell ? Discuss various types of shells available in Unix.   4

Unit I

2. What are the functions of file system ? Also discuss various file access methods.   16

3. What do you understand by directory system ? Explain various directory structures in detail.   16

Unit II

4. Discuss the following :

   (i) Control structure for indicating parallelism

   (ii) Mutual Exclusion.   16

5. What is a semaphore ? How Procedure-consumer, Reader-writer and Dinning-philosopher problems can be solved using semaphores ?   16

Unit III

6. What is Deadlock ? Discuss Banker's algorithm to avoid a deadlock using example.   16

7. What is the difference between deadlock avoidance and detection ? Explain various ways for preventing a deadlock.   16

Unit IV

8. Write a brief history of Unix and compare MS-DOS and Unix on the basis of major characteristics.   16

9. (a) Explain the file system of Unix operating system. 8

   (b) Explain the memory management in Unix operating system.   8

Total Pages : 02

BVSD/M-22 12216

WEB DESIGNING

BVSD-22

Time : Three Hours] [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. (a) What is Web Server ?

(b) What is Internet Service Provider ?

(c) What are Class Attributes ?

(d) How do you create a form in HTML ?

(e) Define Paragraph tag and <hr> tag.

(f) What is JavaScript ?

(g) What are Math Objects ?

(h) What is the use of Dreamweaver ? 8×2=16

Unit I

2. What is a web page ? What is the difference between web page and website ? Explain the process of planning and designing a website. 16

3. Design a web page that shows the nesting of tables using suitable tags. Also show the linking of web pages using images.

16

Unit II

4. Define CSS and explain different kind of CSS selectors along with the examples.

16

5. Write the syntax to create style sheet. Also explain various methods to add style sheet to the HTML document. 16

Unit III

6. What is the need of JavaScript ? Explain various functions, operators and loops used in JavaScript.

16

7. What is JavaScript style sheet ? Explain the Frame Object along with properties and methods.

16

Unit IV

8. Explain the basics of Photoshop along with the features like using transformation, layers and masks.

16

9. Explain the process of working with graphics in flash along with transforming and adjusting graphics in flash

16

BVSD/M-22

12217

NETWORKING AND INTERNET

BVSD-23

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory. In addition to compulsory question, attempt *four* more questions selecting *one* question from each Unit. All questions carry equal marks.

(Compulsory Question)

1. Answer the following questions in short :

   (i) Describe in brief any *two* important uses of computer networks.

   (ii) List the functions of network layer of OSI reference model.

   (iii) What is the advantage of multiplexing in data communication ?

   (iv) How does Baud determine the data rate of a channel ?

   (v) What is a VLAN ?

   (vi) What are the characteristic features of FDDI ?

   (vii) What is World Wide Web ?

(viii) Draw a sketch of the Internet infrastructure to depict its anatomy.

Unit I

2. Sketch and describe the topologies associated with LANs and WANs and bring out the distinction between the two. How is a MAN different from a LAN ?

3. Describe and distinguish between :

(a) Client/Server model and web-based model of networks

(b) Transport layer and data link layer of OSI model

(c) X.25 and Frame Relay networks.

Unit II

4. (a) Bring out a distinction between circuit switching and packet switching. Which one is preferred for the data transmission ?

(b) Describe, how data is transmitted using twisted pair cables ? How are coaxial cables different from twisted pair cables ?

5. Answer the following questions in brief :

(a) How is communication supported by statellites ?

(b) What is the difference between dialup service and DSL services ?

(c) How is frequency modulation used for transmitting bits (0 and 1) in a modem ?

Unit III

6. (a) Describe the CRC method for error detection.

(b) Describe the media access control mechanism used in token ring LAN and Ethernet LAN.

7. Describe the following in the context of Internet Security :

(a) Security Threats

(b) Encryption

(c) Authentication.

Unit IV

8. Based on your Internet-based experiences and interactions, how would you describe the Internet and the services provided by it ? What is the role of an Internet Service Provider ?

9. Describe the following in the context of the Internet :

(a) Browser and Search Engine

(b) Net Etiquette

(c) Governance through the Internet.

Roll No. ....

Total Pages : 02

WEB PROGRAMMING—PHP

BVSD-24

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. Write short notes on the following :

  (a) World Wide Web

  (b) Require( ) function

  (c) Regular expressions

  (d) DML statements in SQL.

Unit I

2. What do you mean by a web server ? Write a detailed note on localhost architecture. Also explain the server side scripting language.

3. What do you mean by Operators in PHP ? Also show the various looping constructs available in PHP.

Unit II

4. Describe various types of arrays in PHP using suitable examples. Also show how PHP is having a more elaborative way to handle arrays in comparison to other standalone application languages.

5. Explain the following :

   (a) Various types of references in functions

   (b) Variable and their scope in PHP functions.

Unit III

6. What is form validation and form sanitization ? Discuss using suitable examples.

7. Explain the String handling in PHP. Also explain how to perform search and replace operations on strings in PHP.

Unit IV

8. What do you mean by PHP database handling functions ? Show using suitable examples.

9. Design a web application for a grocery store. Write the database queries for various operations like purchase of product, sale of product, call of a product, stock of a product in SQL.

RDBMS–II

BVSD–41

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (a) Differentiate between structured and unstructured objects.

    (b) Briefly discuss client-server architecture.

    (c) List the different types of data mining functionalities. Discuss classification.

    (d) How HTML, XML and XSL are related to each other ?

    (e) What do you mean by transaction serialization ?

    (f) Write a note on distributed deadlock.

    (g) What is shadow paging ?

    (h) Discuss presumed abort.   8×2=16

Unit I

2. (a) What do you mean by type constructor ? Explore the different variety of type constructor with examples.

(b) What is inheritance and encapsulation of Operations ? Discuss object persistence via naming and reachability.

8+8=16

3. (a) What is speedup and scale up in parallel databases ? Explain shared disk architecture.

(b) What is data fragment in distributed database system ? Elaborate the different types of data fragmentation.

8+8=16

Unit II

4. (a) What is data warehouse ? How can you integrate data warehouse with data mining ?

(b) What is data mining life cycle ? Discuss motivations and importance behind data mining. **8+8=16**

5. (a) Define Spatial Database. What are its requirements ? Explain different types of spatial queries.

(b) What are the different forms of temporal databases ? Discuss the challenges of implementing a temporal database.

8+8=16

Unit III

6. What is concurrency control ? Explain inconsistent retrievals and uncommitted dependency anomalies. Disuss time stamp ordering techniques with suitable example. **16**

7. What is deadlock prevention and avoidance ? How precedence graph can be used to detect deadlock ? **16**

Unit IV

8. What is meant by recovery ? Discuss reliability and availability. Explain different memory and storage management.

16

9. (a) Discuss replication and voting. How data replication is used to increase the scalability of databases ?

(b) Write a detailed note on two-phase commit protocol.

8+8=16

BVSD/M-22   **12220**

MANAGEMENT INFORMATION SYSTEM

BVSD-42

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

1. (a) What is e-Business ? Discuss its role in business. **4**

    (b) What role does database management play in managing data as a business resource ?   **4**

    (c) Discuss common threats against contemporary information systems.   **4**

    (d) Explain the fuzzy logic systems.   **4**

Unit I

2. What is an information system ? How does it work ? Discuss the different types of information systems.   **16**

3. (a) Discuss various information system resources and products.   **8**

    (b) What is a system ? Discuss various types of systems.   **8**

Unit II

4. Discuss the current trends in hardware platforms. 16

5. Discuss the following : 16

   (i) Text Mining and Web Mining

   (ii) OLAP

   (iii) Data Marts.

Unit III

6. Discuss customer relationship management systems. Also explain the benefits and challenges of CRM. 16

7. Discuss the following : 16

   (i) Encryption and Public key infrastructure

   (ii) Security issues for cloud computing.

Unit IV

8. (a) Distinguish between unstructured, semi-structured and structured decision. 8

   (b) Discuss Group Decision-support systems. 8

9. (a) What are various types of knowledge work systems ? Explain. 8

   (b) Discuss the knowledge management value chain. 8

BVSD/M-22

12221

JAVA PROGRAMMING

BVSD-43

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory.
Attempt *four* more questions selecting *one* question
from each Unit.

(Compulsory Question)

1. (a) Java is both compiled and interpreted. Comment.

    (b) How arrays can be created in java ? Explain in
         brief.

    (c) Differentiate between applet and a simple' Java
         program.

    (d) What do understand by sleep() and yield() methods
         in a thread class ?

    (e) What is the purpose of using super keyword ?

    (f) Name and explain any *three* built-in exceptions.

    (g) How thread priorities can be set in Java ?

    (h) What is the purpose of using final keyword ?

                                               8×2=16

Unit I

2. Explain various types of branching and looping statements in java in detail using suitable examples.   16

3. (a) Explain Java Run-Time Environment in detail.   8

   (b) Describe various operators along with their precedence in java in brief.   8

Unit II

4. Explain the concept of various types of constructors in java with the help of examples. Also discuss how garbage collection is done in java.   16

5. What is wrapper class ? How can it be used ? Explain various types of wrapper classes using suitable examples.   16

Unit III

6. What do you understand by inheritance ? Explain various types of inheritances in java in detail by using suitable example for each.   16

7. Explain the following keywords :

   (a) try

   (b) catch

   (c) throw

   (d) throws

   (e) finally.

   Also write a program using all of the above keywords.   16

Unit IV

8. (a) What do you mean by multithreading ? How is it implemented in java ?   8

   (b) What is synchronization in java ? Explain with the help of suitable examples.   8

9. Write and explain a program in Java that uses the complete life-cycle of a thread.   16

BVSD/M-22 12222

VISUAL PROGRAMMING

BVSD-44

Time : Three Hours]   [Maximum Marks : 80

Note : Q. No. **1** is compulsory. In addition to Attempt *Four* questions, selecting *one* question from each Unit. All questions carry equal marks.

Compulsory Question

1. (a) Describe the purpose of form layout in VB IDE.

  (b) Differentiate between variable and constants.

  (c) Discuss any *four* major properties of a form.

  (d) Describe any *four* common controls in VB in brief.

               4×4=16

Unit I

2. Explain various controls in the tool-box of VB-IDE in detail. 16

3. What are the various types of projects that can be designed in VB ? Explain in detail. 16

Unit II

7. (a) How arrays are declared and used in VB ? Can we create dynamic arrays in VB ? If yes, how ? Explain using suitable examples. **8**

(b) Describe various types of operators in VB with the help of appropriate examples. **8**

5. Write a program in VB to create a basic calculator. Show the design and write the complete code. **16**

Unit III

1. Create a project in VB in which you can add, delete and manage a form at run time. Show the design and write the complete code. **16**

? What is meant by drag and drop operation in VB ? Discuss its purpose in detail. Also write a program in VB to perform drag and drop operation by dragging a label box on to a picture box. **16**

Unit IV

8. What are the various ways to connect VB with a database ? Explain in detail. Write a program in which VB is connected to a database using any of the mechanism. **16**

?. How can you create and use ActiveX controls and ActiveX Document in VB ? Explain using suitable examples. **16**

Total Pages : 02

BVSD/M-22 12223

MOBILE COMPUTING

BVSD-61

Time : Three Hours] [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. (a) Abbreviate TCP, FDMA, MANET, MAC.

   (b) Name *four* routing algorithms for Mobile and hoc networks.

   (c) Discuss Data Dissemination

   (d) What is Tunneling ? 16

Unit I

2. (a) Explain data transfer using CDMA and GSM.

   (b) Discuss GSM handover, Calling and Security issues. 16

3. (a) What is Hidden station and Exposed terminal problem ? What are optimum solutions ?

   (b) Explain framing and working of TDMA and SDMA. 16

Unit II

4. Explain concept of Mobile IP packet delivery, Agent Discovery and Optimization. 16

5. (a) What is DHCP ? Explain its working.

   (b) Write note on Indirect TCP and Snooping TCP. 16

Unit III

6. (a) Explain Client server computing with adaption.

   (b) What is context aware computing ? 16

7. (a) Explain Indexing techniques.

   (b) Discuss QoS issues in data transmission. 16

Unit IV

8. What is MANET ? Discuss its properties and explain one On Demand Routing Protocol. 16

9. (a) Explain working of WAP.

   (b) Write a note on Bluetooth technology and its working. 16

BVSD/M-22

12224

INFORMATION SECURITY

BVSD-62

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory. Attempt *four* more questions, selecting *one* question from each Unit. All questions carry equal marks.

(Compulsory Question)

1. Answer any *four* of the following questions in short :

   (i)   What is the importance of hash function in security ?

   (ii) What is the purpose of Diffie-Hellman algorithm in cryptography ?

   (iii) What do you mean by the term 'Authentication' ? Describe any *one* authentication method along with its advantages and disadvantages.

   (iv) What is a race condition ? How can it be prevented ?

   (v)   What are the various strategies for dealing with risks while administering security ?

Unit I

2. Describe the important goals that are addressed in the context of security. What is the role of a 'cipher' in

cryptography ? Depict diagrammatically an encryption model for a symmetric-key cipher and give an example of its use.

3. (a) What is Asymmetric cryptography ? Distinguish between public and private keys.

(b) How is encryption and decryption carried out in DES algorithm for cryptography ?

Unit II

4. Bring out a distinction between Multiple Level Security and Multilateral Security. Describe the Bell LaPadula model of multilevel security. How does a Covert channel pose problem for a multilevel security system ?

5. (a) What is the idea behind Kerberos ? What kind of problems can be mitigated using Kerberos ?

(b) In what way is CAPTCHA useful for access control ? What are the current types of CAPTCHA ?

Unit III

6. (a) What is a buffer overflow and what are its causes ? How can you detect, prevent and mitigate buffer overflow attack ?

(b) What are the security threats to which an Operating System may be vulnerable ? What measures can be taken against these security threats ?

7. Answer the following questions in brief :

(a) What is a Salami attack and how can it be identified ?

(b) What kind of harm can a malware cause ?

(c) Why and where is reverse engineering used ?

Unit IV

8. Describe the issues related to network security. Give a brief overview of any *three* techniques/protocols that are used to counter the security threats to a network or the Internet.

9. Describe the following in brief :

(a) Firewall characteristics and types

(b) Functions performed by Intrusion Detection System

(c) Kinds of threat posed by ARP spoofing

BVSD/M-22

12225

SOFTWARE TESTING

BVSD-63

Time : Three Hours]　　　　　　　　[Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory.

(Compulsory Question)

1. (a) What is Software Quality ? What are various attributes of software quality ?　　4

   (b) What is cyclomatic complexity ? Draw the Control Flow Graph (CFG) by taking an example and compute its cyclomatic complexity.　　4

   (c) Discuss the Test Exit criteria.　　4

   (d) What is requirement tracker ? Discuss.　　4

Unit I

2. (a) Discuss the general principles of testing.　　8

   (b) Discuss the following :　　8

   (i)　Module testing

   (ii)　Acceptance testing.

3. Explain spiral model of software development. Compare it with V-Model by giving its advantages and disadvantages. 16

Unit II

4. What is black box testing ? Discuss the following black box testing techniques using examples : 16

(a) Boundary Value Analysis

(b) Cause Effect Graphing

(c) Decision Table Technique.

5. (a) Discuss the following : 8

   (i) Technical review

   (ii) Informal review.

(b) Discuss the following using examples : 8

   (i) Statement Coverage

   (ii) Branch Coverage.

Unit III

6. Discuss the following : 16

(a) Quality Assurance Plan

(b) Performance Testing

(c) Load Testing.

L-12225 2

7. (a) What are typical symptoms of insufficient configuration management ? 8

(b) How can the users/clients help in preparing the test plans ? 8

Unit IV

8. Discuss the tools for Static Testing and Dynamic Testing. 16

9. What are the challenges in the testing of object oriented software ? Discuss various class testing strategies. 16

(3-07/6) L-12225 3

BVSD/M-22 12226

LINUX AND SHELL PROGRAMMING

BVSD-64

Time : Three Hours] [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (a) Name various Linux distributions.

   (b) What are the various ways to log out from Linux ?

   (c) Explain pwd and cal commands in Linux.

   (d) Discuss the purpose of uniq filter in Linux.

   (e) What is inode ?

   (f) What is the purpose of using wall command in Linux ?

   (g) What are the various working modes in vi editor ?

   (h) What is lpstat ? 8×2=16

Unit I

2. (a) What is an operating system ? Explain various types of operating systems in detail. 8

   (b) Explain the architecture of Linux operating system. 8

3. (a) How the booting is done in Linux ? Explain. 8

   (b) Write a short note on file system in Linux. 8

Unit II

4. Explain the purpose and working of the following commands : 16

   (i) cat   (ii) ls

   (iii) tty   (iv) chmod

   (v) wc   (vi) tail

   (vii) tee   (viii) who

5. (a) What is a process ? How a process is created and removed in Linux ? Explain. 8

   (b) Write a shell program to find sum of two numbers. 8

Unit III

6. Discuss the operators for the following in vi editor : 16

   (i) Text movement

   (ii) Text filtering

   (iii) Text yanking

   (iv) Forward search

   (v) Edit another file without quitting vi editor.

   (vi) Inserting line numbers.

7. (a) How can you connect to a remove machine in Linux ? Explain in detail. 8

   (b) What is meant by bulletin board ? Explain various command in Linux used for managing a bulletin board. 8

Unit IV

8. (a) Explain the procedure for creating partitions and file system in Unix/Linux. 8

   (b) How can you install Linux in your system ? Explain. 8

9. (a) Explain the role of system administrator in Linux. 8

   (b) How backup is taken in Linux ? How can you setup and improve the strategy for backup in Linux ? 8

BBA/M-22

24501

PRINCIPLES OF MANAGEMENT

Paper–BBA-108

Time Allowed : 3 Hours]   [Maximum Marks : 80

Note : Attempt **five** questions in all, Question No. 1 is compulsory. All questions carry equal marks.

कुल **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या **1** अनिवार्य है। सभी प्रश्नों के अंक समान हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. Explain the following :   16

निम्नलिखित का वर्णन कीजिए:

(a) 'Anything minus management is nothing' classify the statement.

यदि किसी किया में से प्रबन्ध को घटा दिया जाए तो शेष कुछ नहीं बचता। इस कथन को स्पष्ट कीजिए।

(b) Explain Management Information system.

प्रबन्ध सूचना प्रणाली की व्याख्या कीजिए।

(c) Explain the meaning of Social Responsibility.

सामाजिक उत्तरदायित्व का अर्थ दीजिए।

(d) What do you understand by Organisation chart and organisation manual?

(e) What are the indicators of decentralisation?

विकेन्द्रीकरण के सूचक क्या हैं?

(f) What do you mean by "Business Ethics"?

व्यावसायिक नीतिशास्त्र से आप क्या समझते हैं?

2. Explain the contribution of F.W. Taylor in the field of management.   16

प्रबन्ध के क्षेत्र में एफ.डब्ल्यू. टेलर के योगदान की व्याख्या कीजिए।

3. What is planning? Discuss the main steps involved in the process of planning.   16

नियोजन क्या है? नियोजन प्रक्रिया के विभिन्न चरणों की व्याख्या कीजिए।

4. "Both formal and informal organisation are necessary for any group action just as two blades are essential to make a pair of scissors workable". Explain the statement giving importance of both formal and informal organisation.   16

"औपचारिक एवं अनौपचारिक संगठन एक सामूहिक कार्य के लिए इस तरह आवश्यक है जैसे कि कैंची को कार्य योग्य बनाने के लिए उसमें दो ब्लेडों का होना आवश्यक है।" इस कथन को दोनों औपचारिक एवं अनौपचारिक संगठन के महत्व को समझाते हुए कीजिए।

5. What is departmentation? Discuss the main basis of departmentation.   16

विभागीकरण क्या है? विभागीकरण के मुख्य आधारों की विवेचना कीजिए।

6. What do you understand by Budgetary control? Explain the procedure of budgetary control.   16

बजटीय नियंत्रण से आप क्या समझते हैं? बजटीय नियंत्रण प्रक्रिया का वर्णन कीजिए।

7. Define Decentralisation. What are the factors affecting the degree of decentralisations. Explain.   16

विकेन्द्रीकरण को परिभाषित कीजिए। विकेन्द्रीकरण की मात्रा को प्रभावित करने वाले कारक कौन से हैं? स्पष्ट कीजिए।

8. Describe the various barriers to communication. What measures do you suggest to over come them?   16

संचार में आने वाली विभिन्न बाधाओं का वर्णन कीजिए। उन पर काबू पाने के लिए आप क्या उपाय सुझाते हैं?

BBA/M-22

24502

ANALYSIS OF FINANCIAL STATEMENTS

Paper–BBA-109

Time Allowed : 3 Hours]　　　　　　　[Maximum Marks : 80

Note : Attempt **five** questions in all. Question No. 1 is compulsory. All questions carry equal marks.

किन्हीं **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या 1 अनिवार्य है। सभी प्रश्नों के समान अंक हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. Write notes on the following :　　　　　　　16

　निम्नलिखित पर टिप्पणियाँ लिखिए:

　(a) Name the techniques of financial analysis.

　　　वित्तीय विश्लेषण की तकनीकों के नाम लिखिए।

　(b) Objectives of Ratio analysis.

　　　अनुपात विश्लेषण के उद्देश्य।

　(c) Average Collection period.

　　　औसत वसूली अवधि।

　(d) Difference between funds flow statement and Balance sheet.

　　　निधि प्रवाह विवरण और वित्तीय स्थिति विवरण के बीच अंतर।

(e) Classification of Cash flows.

रोकड़ प्रवाहों का वर्गीकरण।

(f) Projected Cash flow statement.

अनुमानित रोकड़ प्रवाह विवरण।

2. What do you mean by interpretation and analysis of Financial statements? What are the limitations of such analysis? 16

वित्तीय विवरणों की व्याख्या और विश्लेषण से आप क्या समझते हैं? इस तरह के विश्लेषण की सीमाएँ क्या हैं?

3. What do you mean by ratio analysis? Discuss its limitations. What ratios would you use of measure long-term solvency? 16

अनुपात विश्लेषण से आपका क्या अभिप्राय है? इसकी सीमाओं का वर्णन कीजिए। दीर्घकालीन शोधन क्षमता को मापने के लिए आप किस अनुपात का प्रयोग करेंगे?

4. What do you mean by Funds flow statement? How is it prepared? Discuss the managerial uses of Funds flow statement. 16

निधि प्रवाह विवरण से आप क्या समझते हैं? इसे कैसे तैयार किया जाता है? निधि प्रवाह विवरण के प्रबंधकीय उपयोगों पर चर्चा कीजिए।

5. Explain the procedure of preparing 'Cash Flow Statement' with imaginary figures. 16

काल्पनिक आंकड़ों की मदद से रोकड़ प्रवाह विवरण तैयार करने की प्रक्रिया को समझाइए।

6. X Ltd. submits the following information's: 16

एक्स लिमिटेड निम्नलिखित जानकारी प्रस्तुत करता है:

	₹
Profit before Tax	5,00,000
Tax Rate	50%
Share Capital :	
10% Preference Share Capital	₹ 2,00,000
Equity Share Capital (₹ 10 each)	₹ 4,00,000
Proposed Dividend on Equity Shares	25%
Current Market Share of Equity Share	₹ 25

Compute for Equity Shares :

इक्विटी शेयरों के लिए गणना :

(i) Dividend Yield Ratio   (ii) Earning Per Share

(iii) Price Earning Ratio   (iv) Dividend Payout Ratio

(i) लाभांश उपज अनुपात   (ii) प्रति शेयर कमाई

(iii) कमाई का अनुपात   (iv) लाभांश भुगतान अनुपात

7. The following are the summarized Balance Sheet of a Company as on 31st December 2017 and 2018. Prepare. 16

31 दिसम्बर 2017 और 2018 को कंपनी के वित्तीय स्थिति विवरण निम्नलिखित हैं। तैयार करना।

(a) Statement of changes in Working Capital.

कार्यशील पूँजी में परिवर्तन का विवरण।

(b) Fund Flow Statement.

निधि प्रवाह विवरण।

Particulars	31.03.2017 ₹	31.03.2018 ₹
A. EQUITY AND LIABILITIES :		
Share Capital	2,00,000	3,00,000
Profit & Loss Balance	1,20,000	2,00,000
Proposed Dividends	24,000	36,000
Provision for Taxation	30,000	40,000
Trade Payables	1,76,000	2,09,000
TOTAL	**5,50,000**	**7,85,000**
B. ASSETS :		
Plant and Machinery	3,00,000	3,50,000
Depreciation Fund	(1,00,000)	(65,000)
Inventory	1,50,000	2,00,000
Trade Receivables	1,20,000	1,08,000
Cash	80,000	1,92,000
TOTAL	**5,50,000**	**7,85,000**

Additional Informations :

अतिरिक्त सूचनाएँ:

A machine which was purchased in 2017 for ₹ 75,000 was sold for ₹ 10,000. The book value of the machine on the date of sale was ₹ 15,000. Company also purchased new machinery during the year.

एक मशीन जो 2017 में ₹75,000 में खरीदी गई थी, ₹10,000 में बेची गई थी। बिक्री की तिथि पर मशीन का बुक वैल्यू ₹15,000 था। कंपनी ने वर्ष के दौरान नई मशीनरी भी खरीदी।

8. Write brief notes on the following : 16

निम्नलिखित पर संक्षिप्त टिप्पणियाँ लिखिए:

(a) Objectives of Financial statements.

वित्तीय विवरणों के उद्देश्य।

(b) Various Techniques of analysing financial statements.

वित्तीय विवरणों के विश्लेषण की विभिन्न विधियाँ।

(c) Return on Capital employed.

विनियोजित पूँजी पर प्रत्याय।

(d) Working capital.

कार्यशील पूँजी।

BBA/M-22

24503

MANAGERIAL ECONOMICS-II

Paper–BBA 110

Time Allowed : 3 Hours]   [Maximum Marks : 80

Note : Answer **five** questions in all. Question No. 1 is compulsory. Select **four** questions from the remaining **seven** questions.

कुल **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या **1** अनिवार्य है। शेष **सात** प्रश्नों में से **चार** प्रश्नों का चयन कीजिए।

Compulsory Question (अनिवार्य प्रश्न)

1. Write short notes on the following :   16

   निम्नलिखित पर संक्षिप्त टिप्पणियाँ लिखिए:

   (a) Define Opportunity Cost.

   अवसर लागत को परिभाषित कीजिए।

   (b) What is Say's law of Market ?

   बाजार के Say's का नियम क्या है?

   (c) Define Marginal Efficiency of Capital.

   पूँजी की सीमांत दक्षता को परिभाषित कीजिए।

   (d) Difference between Voluntary and Involuntary Unemployment.

   स्वैच्छिक और अनैच्छिक बेरोजगारी के बीच अंतर।

(e) Components of Income method for measurement of National Income.

राष्ट्रीय आय के मापन के लिए आय पद्धति के घटक।

(f) Define Demand Pull and Cost Push Inflation.

डिमांड पुल और कॉस्ट पुश इन्फ्लेशन को परिभाषित कीजिए।

2. Define Macro Economics. Explain the main components of Macro Economics. 16

समष्टि अर्थशास्त्र को परिभाषित कीजिए। समष्टि अर्थशास्त्र के मुख्य घटकों की व्याख्या कीजिए।

3. How will you calculate National Income by applying Expenditure method ? 16

व्यय विधि को लागू करके आप राष्ट्रीय आय की गणना कैसे करेंगे?

4. Explain the Liquidity Preference theory of Interest. 16

ब्याज की चलनिधि वरीयता सिद्धांत की व्याख्या कीजिए।

5. Write short notes on the following : 16

निम्नलिखित पर संक्षिप्त टिप्पणियाँ लिखिए:

(a) Inflationary Gap.

मुद्रास्फीति अंतराल।

(b) Relationship between Multiplier and MPS.

गुणक और MPS के बीच संबंध।

(c) Instruments of Monetary Policy.

मौद्रिक नीति के उपकरण।

6. Define Consumption. Explain Life Cycle Hypothesis of Consumption and its limitations. 16

खपत को परिभाषित कीजिए। खपत की जीवन-चक्र परिकल्पना और उसकी सीमाएँ मन्झाइए।

7. Critically explain Keynesian theory of Income and Employment. 16

आय और रोजगार के केन्जियन सिद्धांत की आलोचनात्मक व्याख्या कीजिए।

8. Describe the role of Fiscal Policy in Economic Development. 16

आर्थिक विकास में राजकोषीय नीति की भूमिका का वर्णन कीजिए।

Roll No. ....

Total Pages : 3

BBA/M-22   24504

UNDERSTANDING SOCIAL BEHAVIOUR

Paper–BBA-111

Time Allowed : 3 Hours]   [Maximum Marks : 80

Note : Attempt **five** questions in all. Question No. 1 is compulsory. Select **four** questions from the remaining **seven** questions.

कुल **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या 1 अनिवार्य है। शेष **सात** प्रश्नों में से **चार** प्रश्नों का चयन कीजिए।

Compulsory Question (अनिवार्य प्रश्न)

1. Answer the following in brief :

निम्नलिखित का संक्षेप में उत्तर दीजिए:

(a) Concept of Society.

समाज की अवधारणा।

(b) Meaning of the term Morale Audit.

मनोबल लेखा परीक्षा शब्द का अर्थ।

(c) What do you mean by term Bureaucracy ?

नौकरशाही शब्द से आप क्या समझते हैं?

(d) Concept of Social Institution.

सामाजिक संस्था की अवधारणा।

(e) What is Dissociative process ? Explain with examples.

विच्छेदकारी प्रक्रिया क्या हैं? उदाहरणों सहित स्पष्ट कीजिए।

(f) Evolutionary and Revolutionary Social Change.

विकासवादी और क्रांतिकारी सामाजिक परिवर्तन।

2. Discuss the need and importance of Knowledge of Sociology in a Business Organisation.

एक व्यावसायिक संगठन में समाजशास्त्र के ज्ञान की आवश्यकता और महत्व की चर्चा कीजिए।

3. What do you mean by Social Processes ? How does Social Processes affect the Society ?

सामाजिक प्रक्रियाओं से आप क्या समझते हैं? सामाजिक प्रक्रियाएं समाज को कैसे प्रभावित करती हैं?

4. Write a critical note on Caste structure in relation to Indian Society.

भारतीय समाज के संबंध में जाति संरचना पर एक आलोचनात्मक टिप्पणी लिखिए।

5. Explain the changing roles of Family as a Social Institution in Our Society.

हमारे समाज में एक सामाजिक संस्था के रूप में परिवार की बदलती भूमिका की व्याख्या कीजिए।

6. Highlight the nature of Social stratification of Indian Society.

भारतीय समाज के सामाजिक स्तरीकरण के स्वरूप पर प्रकाश डालिए।

7. Explain the process of Socialisation with suitable examples.

समाजीकरण की प्रक्रिया को उपयुक्त उदाहरणों सहित समझाइए।

8. Describe meaning and factors of Social change in Our Society.

हमारे समाज में सामाजिक परिवर्तन के अर्थ और कारकों का वर्णन कीजिए।

BBA/M-22

24505

BUSINESS MATHEMATICS-II

Paper–BBA-112

Time Allowed : 3 Hours]　　　　　　　　　　[Maximum Marks : 80

Note : Attempt **five** questions in all. Question No. **8** is compulsory.

1.　(a)　Find the co-ordinates of the incenter of a triangle whose vertices are $(-3, -1)$, $(-1, 3)$ and $(6, 2)$.　　8

　　(b)　Find the equation of the line such that it is perpendicular to $4x - 3y + 7 = 0$ and passes through $(4, 5)$.　　8

2.　(a)　Solve the equation :

　　　　$1 + 6 + 11 + 16 + \ldots\ldots + x = 148$.　　8

　　(b)　If A and G, be A.M and G.M on between two positive numbers then prove that $A > G$.　　8

3.　(a)　Evaluate : $\int \dfrac{1}{1 - e^x} dx$.　　8

　　(b)　Evaluate : $\int \dfrac{2x}{x^4 - 7x^2 + 12} dx$.　　8

4.　(a)　Evaluate : $\int \dfrac{x^2}{\sqrt{x^6 + 4}} dx$.　　8

(b) Evaluate : $\int_0^1 x e^{2x} \, dx$. 8

5. (a) The demand function for a commodity is $p = e^{-x}$. Find the consumer's surplus when p = 0.5. 8

(b) Evaluate : $\left[\sqrt{\dfrac{(45.4)^2}{(3.2)^2 \times (6.5)^3}}\right]^{1.3}$ 8

6. (a) Find the compound interest on the sum of Rs. 7,865 for 8 years at 3½% p.a. 8

(b) Find n such that $\dfrac{a^n + b^n}{a^{n-1} + b^{n-1}}$ may be the G.M between a and b. 8

7. (a) Sum the series : 8

7 + 7.7 + 7.77 - 7.777 + ... upto n terms. 8

(b) Find the acute angle between the lines $x + y + 1 = 0$ and $\sqrt{3}x - y - 3 = 0$. 8

(Compulsory Question)

8. (a) Find the value of k for which the points (k, -1), (2, 1) and (4, 5) are collinear? 3

(b) Evaluate : $\int_1^4 \left(\sqrt{x} + \dfrac{1}{\sqrt{x}}\right)^2 dx$. 3

(c) Find the sum of 17 terms of the sequence 5, 9, 13, 17, ... 3

(d) Solve for x, $\log_{27} x = \dfrac{4}{3}$. 3

(e) If slope of line joining (-8, 11) and (2, y) is $\dfrac{-4}{3}$. Find y. 3

(f) Define A.P. 1

BBA/M-22

24506

BUSINESS COMMUNICATION-I

Paper–BBA-113

Time Allowed : 3 Hours]   [Maximum Marks : 80

Note : Attempt **five** questions in all, Question No. 1 is compulsory. All questions carry equal marks.

किन्हीं **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या **1** अनिवार्य है। सभी प्रश्नों के अंक समान हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. Write short notes on the following :

निम्नलिखित पर संक्षिप्त टिप्पणियाँ लिखिए:

(a) Explain the meaning and importance of communication.

संचार के अर्थ और महत्त्व की व्याख्या कीजिए।

(b) What are the characteristics of non-verbal communication?

गैर-मौखिक संचार की विशेषताएँ क्या हैं?

(c) Golden rules of translation.

अनुवाद के सुनहरे नियम।

(d) Formal and informal application.

औपचारिक और अनौपचारिक आवेदन।

(e) Structure of paragraph writing.

अनुच्छेद लेखन की संरचना।

(f) Dressing sense.

ड्रैसिंग सेंस।

2. Discuss the seven C'S of business communication in detail.

बिजनेस कम्युनिकेशन के सात C'S की विस्तार से चर्चा कीजिए।

3. Define business communication and explain the basic forms of communication.

व्यावसायिक संचार को परिभाषित कीजिए और संचार के मूल रूपों की व्याख्या कीजिए।

4. What are the communication barriers you may come across when move to a new country?

नए देश में जाने पर आपको किन संचार बाधाओं का सामना करना पड़ सकता है?

5. What is communication model discuss the one way and two way communication models?

संचार मॉडल क्या है, एकतरफा और दोतरफा संचार मॉडल पर चर्चा कीजिए।

6. How can the differences between two cultures draw people closer to each other? List the guidelines to be kept in mind for effective multicultural communication.

दो संस्कृतियों के बीच अंतर लोगों को एक-दूसरे के करीब कैसे ला सकता है? प्रभावी बहुसांस्कृतिक संचार के लिए ध्यान में रखे जाने वाले दिशानिर्देशों की सूची बनाइए।

7. What is good business letter? Give a general layout of a business letter.

अच्छा व्यावसायिक पत्र क्या है? एक व्यावसायिक पत्र का एक सामान्य लेआउट दीजिए।

8. What are synonyms? Give synonyms for Accurate. Harmful. Huge. Admit. Excellent. Raise. Exit and Arrive.

समानार्थी शब्द क्या है? Accurate. Harmful. Huge. Admit. Excellent. Raise. Exit and Arrive के समानार्थी शब्द दें।

HUMAN BEHAVIOUR AT WORK

Paper–BBA–208

Time Allowed : 3 Hours]   [Maximum Marks : 80

Note : Attempt **five** questions in all. Question No. **1** is compulsory. Attempt remaining **four** questions, out of remaining seven questions. All questions carry equal marks.

कुल **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या **1** अनिवार्य है। शेष सात प्रश्नों में से **चार** प्रश्नों का प्रयास कीजिए। सभी प्रश्नों के समान अंग हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. Explain the following concepts :   2×8=16

   निम्नलिखित अवधारणाओं की व्याख्या कीजिए :

   (a) Group synergy.

       समूह तालमेल।

   (b) Group obedience.

       समूह आज्ञाकारिता।

   (c) Social loafing.

       सामाजिक आवारगी।

   (d) Feedback process.

       प्रतिक्रिया प्रक्रिया।

(e) Interpersonal awareness.

परस्परिक जागरूकता।

(f) Competition and cooperation.

प्रतिस्पर्धा और सहयोग।

(g) Group development.

समूह विकास।

(h) Team performance.

टीम प्रदर्शन।

2. Meaning and nature of a group. Explain group as a medium of learning.

समूह का अर्थ और प्रकृति। समूह को सीखने के माध्यम के रूप में समझाइए।

16

3. What is Social loafing? What are the types and factors affecting it?

सामाजिक आवारगी क्या है? इसे प्रभावित करने वाले प्रकार और कारक क्या हैं?

16

4. What is meaning of Morale? What are the methods of raising group Morale? What are the techniques of measuring Morale?

मनोबल का क्या अर्थ है? समूह का मनोबल बढ़ाने के क्या उपाय हैं? मनोबल मापने की तकनीकें क्या हैं?

16

5. What is group conformity? Write its types and situational factors affecting group conformity.

समूह अनुरूपता क्या है? समूह अनुरूपता को प्रभावित करने वाले इसके प्रकार और परिस्थितिजन्य कारक लिखिए।

16

6. Define group dynamics, its types and factors for poor group dynamics.

समूह गतिकी को परिभाषित कीजिए, इसके प्रकार और खराब समूह गतिकी के कारको।

16

7. Explain the elements and importance of interpersonal communication.

परस्परिक संचार के तत्वों और महत्व की व्याख्या कीजिए।

16

8. How to work better and more effectively as a team? What are the factors affecting effectiveness of a team?

एक टीम के रूप में बेहतर और अधिक प्रभावी ढंग से कैसे काम करें? एक टीम की प्रभावशीलता को प्रभावित करने वाले कारक क्या हैं?

BBA/M-22 **24508**

MACRO BUSINESS ENVIRONMENT

Paper–BBA 209

Time Allowed : 3 Hours]   [Maximum Marks : 80

Note : Attempt **five** questions in all. Question No. 1 is compulsory. All questions carry equal marks.

कुल **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या 1 अनिवार्य है। सभी प्रश्नों के अंक समान हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. Answer the following questions :

निम्नलिखित प्रश्नों के उत्तर दीजिए:

(a) Define Globalization.

वैश्वीकरण को परिभाषित कीजिए।

(b) Write three major objectives of Fiscal Policy.

राजकोषीय नीति के तीन प्रमुख उद्देश्य लिखिए।

(c) What is the difference between GATT and WTO ?

गैट और डब्ल्यूटीओ में क्या अंतर है?

(d) What is the difference between Volume of Trade and Composition of Trade ?

व्यापार की मात्रा और व्यापार की संरचना के बीच क्या अंतर है?

(e) What is Cash Reserve Ratio ?

नकद आरक्षित अनुपात क्या है?

(f) Define Deficit Financing.

डेफिसिट (घाटा) वित्तपोषण को परिभाषित कीजिए।

2. What is meant by Foreign Capital ? Give its classification. Explain the need of Foreign Capital in India.

विदेशी पूंजी से क्या तात्पर्य है? इसका वर्गीकरण दीजिए। भारत में विदेशी पूंजी की आवश्यकता की व्याख्या कीजिए।

3. What do you mean by Privatization ? Discuss advantages and disadvantages of Privatization in India.

निजीकरण से आप क्या समझते हैं? भारत में निजीकरण के फायदे और नुकसान पर चर्चा कीजिए।

4. What do you mean by World Bank ? How will you justify the membership of World Bank for India ?

विश्व बैंक से आप क्या समझते हैं? आप भारत के लिए विश्व बैंक की सदस्यता को किस प्रकार न्यायोचित ठहराएंगे?

5. Discuss the main features of latest EXIM Policy of India.

भारत की नवीनतम एक्ज़िम नीति की मुख्य विशेषताओं की चर्चा कीजिए।

6. Define Industrial Policy. What are the objectives of Industrial Policy in India ?

औद्योगिक नीति को परिभाषित कीजिए। भारत में औद्योगिक नीति के उद्देश्य क्या हैं?

7. Write notes on the following :

निम्नलिखित पर टिप्पणियाँ लिखिए:

(a) Objectives of Monetary Policy.

मौद्रिक नीति के उद्देश्य

(b) Advantages of Special Drawing Rights.

विशेष आहरण अधिकार के लाभ

8. Critically evaluate the contribution of Multinational Corporations in Indian Economy.

भारतीय अर्थव्यवस्था में बहुराष्ट्रीय निगमों के योगदान का समालोचनात्मक मूल्यांकन कीजिए।

BBA/M-22

24509

BUSINESS STATISTICS-II

Paper—BBA-210

Time Allowed : 3 Hours]　　　　　[Maximum Marks : 80

Note : Attempt **five** questions in all. Question No. **1** is compulsory. All questions carry equal marks.

कुल **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या **1** अनिवार्य है। सभी प्रश्नों के अंक समान हैं।

Compulsory Question (अनिवार्य प्रश्न)

1.　Explain the following :　　　　　　　　　8×2=16

　　निम्नलिखित की व्याख्या कीजिए :

　　(a)　Simple and Multiple correlation.

　　　　सरल और एकाधिक सहसंबंध।

　　(b)　Normal equations for Regression.

　　　　प्रतिगमन के लिए सामान्य समीकरण।

　　(c)　Explained and Unexplained variation.

　　　　समझाया और अस्पष्टीकृत भिन्नता।

　　(d)　Statistical probability.

　　　　सांख्यिकीय संभावना।

　　(e)　Mutually Exclusive events.

　　　　परस्पर अनन्य कार्यक्रम।

6.　Consider the following time series model :

निम्नलिखित समय शृंखला मॉडल पर विचार कीजिए :　　16

$Y_t = b_0 + b_1 T + b_2 Y_{t-1} + u_t$ where

Y → Income level

f → Observation number

T → Time period

u_t → Random error term

b_0, b_1, b_2 are coefficients.

The model is not having seasonality. What are the assumptions about the random error term ? Discuss in detail.

मॉडल में मौसमी नहीं है। रैंडम एरर टर्म के बारे में क्या धारणाएँ हैं ? विस्तार से चर्चा कीजिए।

7.　Write the steps for hypothesis testing procedure for large samples to find whether the sample represents the population.　　16

यह पता लगाने के लिए कि क्या नमूना जनसंख्या का प्रतिनिधित्व करता है, बड़े नमूनों के लिए परिकल्पना परीक्षण प्रक्रिया के चरणों को लिखिए।

8.　Write the complete procedure to solve QII(b) and III using Excel.　　16

एक्सेल का उपयोग करके QII(b) और III को हल करने की पूरी प्रक्रिया लिखिए।

एक एलईडी बल्ब के 150 दिनों तक चलने की प्रायिकता 0.7 है और इसके अधिकतम 160 दिनों तक चलने की प्रायिकता 0.8 है। इसकी क्या प्रायिकता है कि यह 150 से 160 दिनों के बीच रहेगा ?

(f) Data De-seasonalisation.

डेटा डी-सीज़नलाइजेशन।

(g) Independent samples t-test.

स्वतंत्र नमूने टी-परीक्षण।

(h) Excel function for Natural log.

प्राकृतिक लॉग के लिए एक्सेल फ़ंक्शन।

2. (a) Discuss the differences between Correlation and Regression coefficients. 8

सहसंबंध और प्रतिगमन गुणांक के बीच अंतर पर चर्चा कीजिए।

(b) Find the correlation between income and expenditure from the following data : 8

निम्नलिखित आँकड़ों से आय और व्यय के बीच सहसम्बन्ध ज्ञात कीजिए:

Income (y) आय (y) (₹)	Expenditure (x) व्यय (x) (₹)	Frequency (f) आवृत्ति (f)
4,000–10,000	3,500–9,500	5
10,000–25,000	9,600–23,000	5
25,000–50,000	23,500–40,000	4
50,000–1,00,000	41,000–70,000	4
1,00,000–2,00,000	71,000–80,000	2

3. Compute the Standard error of estimate and coefficient of determination between Productivity (y) and Bonus (x):

उत्पादकता (y) और बोनस (x) के बीच अनुमान की मानक त्रुटि और निर्धारण के गुणांक की गणना कीजिए:

Y	110	90	112	120	125	135	130	132
X	5	6	8	9	10	11	12	13

If Y = a + bX, then explain the meaning of computed values of a and b. 16

यदि Y = a + bX, तो a और b के परिकलित मानों का अर्थ स्पष्ट कीजिए।

4. What is Probability ? Discuss its significance for Managers. Give examples of various types of Events and Probabilities. 16

संभाव्यता क्या है? प्रबंधकों के लिए इसके महत्व पर चर्चा कीजिए। विभिन्न प्रकारों की घटनाओं और संभाव्यताओं के उदाहरण दीजिए।

5. (a) A Husband tells truth 6 out of 10 times. His wife tells truth 7 out of 10 times. What are the chances that both are telling a lie to each other ? 8

एक पति 10 में से 6 बार सच बोलता है। उनकी पत्नी 10 में से 7 बार सच बोलती हैं। क्या संभावना है कि दोनों एक दूसरे से झूठ बोल रहे हैं?

(b) The probability that an LED bulb will last for 150 days is 0.7 and the probability that it will last at most for 160 days is 0.8. What is the probability that it will last between 150 to 160 days ? 8

BBA/M-22

24510

MARKETING MANAGEMENT

Paper–BBA-211

Time Allowed : 3 Hours]   [Maximum Marks : 80

Note : Attempt **five** questions in all. Question No. 1 is compulsory. All questions carry equal marks.

किन्हीं **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या **1** अनिवार्य है। सभी प्रश्नों के समान अंक हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. Explain the following :

निम्नलिखित का वर्णन कीजिए:

(a) Differentiate between selling and marketing.

विपणन एवं विक्रय में अन्तर स्पष्ट कीजिए।

(b) Objectives of market segmentation.

बाजार विभक्तिकरण के उद्देश्य।

(c) Describe various stages of Product life cycle.

उत्पाद जीवन चक्र की विभिन्न अवस्थायें बताइए।

(d) Meaning of marketing research.

विपणन अनुसंधान का अभिप्राय।

(e) What are modern distribution channels?

आधुनिक वितरण माध्यम कौन-से हैं?

(f) Objectives of Personal selling.

व्यक्तिक विक्रय के उद्देश्य बताइए।

2. Define Marketing environment. Explain its components.

विपणन वातावरण को परिभाषित कीजिए। इसके घटकों का वर्णन कीजिए।

3. What do you understand by Marketing mix? Discuss the factors affecting marketing mix.

विपणन मिश्रण से आप क्या समझते हैं? विपणन मिश्रण को प्रभावित करने वाले तत्वों की व्याख्या कीजिए।

4. Discuss the concept of new product development. Discuss various stages of new product development process.

नए उत्पाद के विकास की अवधारणा की चर्चा कीजिए। नए उत्पाद के विकास के विभिन्न चरणों की व्याख्या कीजिए।

5. What are the factors influencing pricing? Explain the pricing procedure.

मूल्य निर्धारण को प्रभावित करने वाले तत्व कौन-से हैं? मूल्य निर्धारण प्रक्रिया की व्याख्या कीजिए।

6. What is consumer behaviour? What are the different determinants of consumer behaviour?

उपभोक्ता व्यवहार क्या हैं? उपभोक्ता व्यवहार के विभिन्न निर्धारक तत्व कौन-से हैं?

7. What is marketing information system? Explain the essentials of good marketing information system.

विपणन सूचना प्रणाली क्या हैं? एक अच्छी विपणन सूचना प्रणाली के आवश्यक तत्वों की व्याख्या कीजिए।

8. Define Packaging. What are the functions of Packaging. Discuss different types of packaging.

पैकेजिंग की परिभाषा दीजिए। पैकेजिंग के कार्य क्या हैं? पैकेजिंग के विभिन्न प्रकारों का वर्णन कीजिए।

BBA/M-22

24511

FINANCIAL MANAGEMENT

Paper–BBA–212

Time Allowed : 3 Hours

[Maximum Marks : 80

Note : Attempt **five** questions in all. Question No. 1 is compulsory. All questions carry equal marks.

पाँच प्रश्न कीजिए। प्रश्न संख्या 1 अनिवार्य है तथा सभी प्रश्नों के अंक समान हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. Write short notes on the following : 16

निम्नलिखित पर संक्षिप्त टिप्पणियाँ लिखिए :

(a) Discuss the functions of Financial Manager.

वित्तीय प्रबंधक के कार्यों की विवेचना कीजिए।

(b) "Investment decisions affect the profitability of the Firm". Explain.

"निवेश निर्णय फर्म की संभावना को प्रभावित करते हैं"। व्याख्या कीजिए।

(c) Explain Optimum Capital structure.

इष्टतम पूँजी संरचना की व्याख्या कीजिए।

(d) Discuss Wealth Maximization Approach of Dividend decisions.

लाभांश निर्णयों के लिए धन अधिकतमकरण दृष्टिकोण पर चर्चा कीजिए।

e What is variable working Capital.

परिवर्तनीय कार्यशील पूंजी क्या है?

(f) Discuss Ploughing back of Profits.

मुनाफे को जुताई पर चर्चा कीजिए।

2. What are the factors affecting Financial Planning? Which steps should be taken for preparing a Financial Plan? 16

वित्तीय नियोजन को प्रभावित करने वाले कारक कौन से हैं? वित्तीय योजना तैयार करने के लिए कौन से कदम उठाए जाने चाहिए? 16

3. A Company is considering an investment proposal to install new machinery. The project will cost ₹50,000 with life of five years and no salvage value. The tax rate of the company is 55% and it uses straight line method of depreciation. The estimated cash flow before tax (CFBT) are ₹10,000, ₹11,000, ₹14,000, ₹15,000 and ₹25,000 during years 1, 2, 3, 4 and 5 respectively. Compute : 16

एक कंपनी नई मशीनरी लगाने के लिए एक निवेश प्रस्ताव पर विचार कर रही है। इस परियोजना की लागत ₹50,000 होगा जिसमें पांच साल का जीवन होगा और कोई निस्तारण मूल्य नहीं होगा। कंपनी की कर दर 55% है और यह मूल्यह्रास की सीधी रेखा पद्धति का उपयोग करती है। वर्ष 1, 2, 3, 4 और 5 के दौरान कर पूर्व अनुमानित नकदी प्रवाह (सीएफबीटी) क्रमशः ₹10,000, ₹11,000, ₹14,000, ₹15,000 और ₹25,000 हैं। गणना कीजिए :

(a) Average Rate of Return.

वापसी की औसत दर।

(b) NPV at 10% discount rate.

10% छूट दर पर एनपीवी।

(c) Profitability Index at 10% discount rate.

10% छूट दर पर लाभप्रदता सूचकांक।

4. Being a Financial Manager of an Automobile company; you are required to compute the weighted average cost of Capital of Company using book value and market value weights. The present capital structure of the company is as follow : 16

एक ऑटोमोबाइल कंपनी के वित्तीय प्रबंधक होने के नाते, आपको कंपनी की बुक वैल्यू और मार्केट वैल्यू वेट का उपयोग करके कंपनी की भारित औसत लागत की गणना करने की आवश्यकता है। कंपनी की वर्तमान पूंजी संरचना इस प्रकार है: 16

Equity share (₹15 per share)   ₹45,00,000

इक्विटी शेयर (₹15 प्रति शेयर)

8% Preference Shares (₹100 per share)   ₹5,00,000

8% वरीयता शेयर (प्रति शेयर ₹100)

12% Debenture (₹100 per debenture)   ₹15,00,000

12% डिबेंचर (₹100 प्रति डिबेंचर)

Total (कुल)   ₹65,00,000

All these securities are listed in the Stock Exchanges. Their recent prices are:

Debentures ₹110 per debenture, Preference Shares ₹115 per share and equity shares are 60 per share.

Anticipated External Financial opportunities are :

इन प्रतिभूतियों स्टॉक एक्सचेंज में सूचीबद्ध हैं। उनकी हाल की कीमतें हैं :

डिबेंचर ₹110 प्रति डिबेंचर, वरीयता शेयर ₹115 प्रति शेयर और इक्विटी शेयर 60 प्रति शेयर।

प्रस्तावित बाह्य वित्तीय अवसर हैं :

(a) New ₹100 debentures can be sold at par at 9% coupon rate, redeemable at 10% premium after 5 years. Flotation Cost would be 2%.

नए ₹100 डिबेंचर को 9% कूपन दर पर बेचा जा सकता है, 5 साल के बाद 10% प्रीमियम पर रिडीम किया जा सकता है। फ्लोटेशन लागत 2% होगी।

(b) New ₹100 preference shares carrying 8% dividend can be sold at par, redeemable at a premium of 5% after 10 years. Flotation cost would be 3 per share.

8% लाभांश वाले नए 100 वरीयता वाले शेयरों को 10 वर्षों के बाद 5% के प्रीमियम पर प्रतिदेय, सममूल्य पर बेचा जा सकता है। फ्लोटेशन की लागत 3 प्रति शेयर होगी।

(c) New ₹10 equity shares can be sold at ₹35. Flotation cost would be 2% of issues price. Expected dividend on equity shares is 20%. the anticipated growth rate in dividend is 8%.

नए ₹10 इक्विटी शेयर ₹35 पर बेचे जा सकते हैं। फ्लोटेशन लागत निर्गम मूल्य का 2% होगी। इक्विटी शेयरों पर अपेक्षित लाभांश 20% है, लाभांश में प्रत्याशित वृद्धि दर 8% है।

Corporate tax rate 40%.

कॉर्पोरेट टैक्स दर 40%।

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5. What do you mean by Capital structure ? Explain the factors affecting the Capital structure of a Company. 16

पूंजी संरचना से आप क्या समझते हैं? किसी कंपनी की पूंजी संरचना को प्रभावित करने वाले कारकों की व्याख्या कीजिए।

6. Discuss the Modigliani and Miller approach of Irrelevance of dividend. What are its limitations ? 16

लाभांश की अप्रासंगिकता के मोदिग्लियानी और मिलर दृष्टिकोण पर चर्चा कीजिए। इसकी सीमाएं क्या हैं?

7. A Proforma Cost sheet of a Company provides the following Particulars : 16

एक कंपनी का एक प्रोफार्मा लागत पत्रक निम्नलिखित विवरण प्रदान करता है :

Element of Cost	Amount per unit (₹)
लागत का तत्व	प्रति यूनिट राशि (₹)
Raw materials	80
कच्चा माल	
Direct Wages	30
प्रत्यक्ष मजदूरी	
Overheads	60
उपरिव्यय	
Total Cost	170
कुल लागत	
Profit	30
लाभ	
Selling Price	200
विक्रय मूल्य	

The following further particulars are available :

निम्नलिखित अतिरिक्त विवरण उपलब्ध हैं :

(i) Raw materials are in Stock on an average for one month.

कच्चा माल औसतन एक महीने के लिए स्टॉक है।

(ii) Materials are in process on an average for half a month. Assume 50% completion stage in respect of labour and overheads and 100% completion in respect of material.

औसतन आधे महीने से सामग्री की प्रक्रिया चल रही है। श्रम और उपरिव्यय के संबंध में 50% पूर्णता चरण और सामग्री के संबंध में 100% पूर्णता मान लें।

(iii) Finished goods are in stock on an average for one month.

तैयार माल औसतन एक महीने के लिए स्टॉक में है।

(iv) Credit allowed by the suppliers is one month.

आपूर्तिकर्ता द्वारा अनुमत क्रेडिट एक माह है।

(v) Credit allowed to debtors is two months.

देनदारों को अनुमत ऋण दो महीने है।

(vi) Time lag in payment of wages is 1.5 weeks.

मजदूरी के भुगतान में समय अंतराल 1.5 सप्ताह है।

(vii) Time lag in payment of overheads expenses is one month.

उपरिव्यय व्यय के भुगतान में एक माह का समय अंतराल है।

(viii) One fourth of the output is sold against cash.

(ix) Cash in hand and at Bank is expected to be ₹25,000.

हाथ में और बैंक में नकद ₹25,000 होने की उम्मीद है।

You are required to prepare a statement showing the working capital needed to finance a level of activity of 1,04,000 units of production. You may assume that production is carried on evenly throughout the year, and wages and overheads accrue similarly and a time period of 4 weeks is equivalent to one month.

आपको उत्पादन के 1,04,000 इकाइयों की गतिविधि के स्तर को वित्तपोषित करने के लिए आवश्यक कार्यशील पूंजी दिखाते हुए एक विवरण तैयार करना होगा। आप मान सकते हैं कि उत्पादन पूरे वर्ष में समान रूप से किया जाता है, और मजदूरी और उपरिव्यय समान रूप से अर्जित होते हैं और 4 सप्ताह की समयावधि एक महीने के बराबर होती है।

8. What do you mean by Long-term, Medium-term and Short-term requirement of Funds ? Explain Short-term sources of Finance.

16

दीर्घावधि, मध्यम अवधि और अल्पकालिक अवधि की आवश्यकता से आप क्या समझते हैं? वित के अल्पकालिक अवधि स्रोतों की व्याख्या कीजिए।

Roll No. ....

BBA/M-22

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Total Pages : 3

ENTREPRENEURSHIP DEVELOPMENT

Paper–BBA-308

Time Allowed : 3 Hours]   [Maximum Marks : 80

Note : Attempt **five** questions in all, Question No. 1 is
compulsory. All questions carry equal marks.

कुल **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या **1** अनिवार्य
है। सभी प्रश्नों के अंक समान हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. Write short notes on the following :

निम्नलिखित पर संक्षिप्त टिप्पणियाँ लिखिए :

(a) Give five characteristics of an entrepreneur.

एक उद्यमी की पाँच विशेषताएँ बताइए।

(b) What do you understand by Entrepreneurship?

उद्यमिता से आप क्या समझते हैं?

(c) 'Preparation of project is an important stage'. Explain.

'परियोजना की तैयारी एक महत्वपूर्ण चरण है'। व्याख्या
कीजिए।

(d) What do you mean by factoring?

फैक्टरिंग (दलाली) से आप क्या समझते हैं?

(e) Explain the Entrepreneurship Development Institute of India.

भारतीय उद्यमिता विकास संस्थान की व्याख्या कीजिए।

(f) Explain Credit Guarantee fund Scheme.

क्रेडिट गारंटी फंड योजना की व्याख्या कीजिए।

2. "Entrepreneurship is the cause to which economy is the effect". Justify the statement with regard to the initiatives taken up by Indian Govt., to promote micro entrepreneurs.

"उद्यमिता वह कारण है जिससे अर्थव्यवस्था प्रभावित होती है।" सूक्ष्म उद्यमियों को बढ़ावा देने के लिए भारत सरकार द्वारा की गई पहल के संबंध में कथन की पुष्टि कीजिए।

3. What do you mean by Entrepreneur? Explain the different types of entrepreneurs with examples.

उद्यमी से आप क्या समझते हैं? विभिन्न प्रकार के उद्यमियों को उदाहरण सहित समझाइए।

4. "Entrepreneurship plays an important role in the economic development of a country." Explain and justify this statement.

"उद्यमिता किसी देश के आर्थिक विकास में महत्वपूर्ण भूमिका निभाती है।" इस कथन की व्याख्या कीजिए और इसकी पुष्टि कीजिए।

5. What is new venture? Explain the various stages for starting up of a new venture.

नया उद्यम क्या है? एक नया उद्यम शुरू करने के विभिन्न चरणों की व्याख्या कीजिए।

6. Discuss in brief the various sources of short-term and long-term sources finance.

अल्पकालिक और दीर्घकालिक स्रोतों के वित्त के विभिन्न स्रोतों की संक्षेप में चर्चा कीजिए।

7. Describe the institutional set-up for the entrepreneurial development in India.

भारत में उद्यमिता विकास के लिए संस्थागत ढांचे का वर्णन कीजिए।

8. Write short notes on the following :

निम्नलिखित पर संक्षिप्त टिप्पणियाँ लिखिए :

(a) Government schemes for support of enterprises.

उद्यमों के समर्थन के लिए सरकारी योजनाएँ।

(b) Schemes of MSMEs for supporting enterprises.

उद्यमों को समर्थन देने के लिए एमएसएमई की योजनाएँ।

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BBA/M-22

24514

BUSINESS LAW-II

Paper–BBA-309

Time Allowed : 3 Hours]   [Maximum Marks : 80

Note : Attempt **five** questions in all. Question No. 1 is compulsory. All questions carry equal marks.

कुल **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या 1 अनिवार्य है। सभी प्रश्नों के अंक समान हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. Explain the following :

   निम्नलिखित को स्पष्ट कीजिए :

   (a) Four salient features of Indian company Act, 2013.

       भारतीय कम्पनी अधिनियम, 2013 की चार विशेषताएँ।

   (b) Difference between Public company and Private company.

       एक सार्वजनिक कम्पनी और निजी कम्पनी के बीच अन्तर।

   (c) Allotment of shares.

       अंशों के आवंटन का अधिग्रहण।

   (d) Characteristics of Debentures.

       ऋण-पत्रों की विशेषताएँ।

   (e) Who can become member of a company ?

एक कम्पनी का सदस्य कौन बन सकता है?

(f) Meaning of gup oppression and mismanagement of a company.

एक कम्पनी में गुप अन्याय एवं कुप्रबन्ध का अर्थ।

2. What is promotion of a company? Explain a procedure to be followed for incorporation of a public company.

कम्पनी का प्रवर्तन क्या है? एक सार्वजनिक कम्पनी के समामेलन के लिए अपनाई जाने वाली प्रक्रिया का वर्णन कीजिए।

3. "Memorandum and Article of Association are public documents". Explain this statement and discuss the Doctrine of Indoor Management.

"सीमानियम और अंतर्नियम सार्वजनिक प्रलेख हैं" इस कथन को समझाइए तथा आंतरिक प्रबंध के सिद्धान्त की विवेचना कीजिए।

4. What is Share capital? What is its nature? Explain the different forms of Share capital.

अंशपूँजी क्या है? इसकी प्रकृति क्या है? अंशपूँजी के विभिन्न रूपों का वर्णन कीजिए।

5. Distinguish between Debenture holders and Share holders. Also describe the different kinds of Debentures.

ऋण-पत्रधारी और अंशधारी के बीच पद स्पष्ट कीजिए। विभिन्न प्रकार के ऋण-पत्रों का भी वर्णन कीजिए।

6. "Directors are the trustees of the company." Comment and explain their legal positions.

"संचालक कम्पनी के ट्रस्टी होते हैं।" टिप्पणी कीजिए तथा उनकी वैधानिक स्थितियों का भी वर्णन कीजिए।

7. What do you understand by winding up of a company? Distinguish between Members' voluntary winding up and creditors' voluntary winding up.

कम्पनी के समापन से आप क्या समझते हैं? सदस्यों द्वारा ऐच्छिक समापन तथा लेनदारों द्वारा स्वैच्छिक समापन में अन्तर कीजिए।

8. What is Annual general meeting and an Extra-ordinary general meeting? By whom can an extra-ordinary general meeting be called? What are the legal provisions regarding an extra-ordinary general meeting?

वार्षिक तथा असाधारण व्यापक सभा क्या होती है? असाधारण व्यापक सभा कौन बुला सकते हैं? असाधारण व्यापक सभा के सम्बन्ध में वैधानिक व्यवस्थाएँ क्या हैं?

BBA/M-22

24515

LOGISTICS MANAGEMENT

Paper–BBA 310

Time Allowed : 3 Hours]   [Maximum Marks : 80

Note : Attempt **five** questions in all, Question No. 1 is compulsory. All questions carry equal marks.

कुल **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या **1** अनिवार्य है। सभी प्रश्नों के अंक समान हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. Answer the following Short answer type questions :

निम्नलिखित लघु उत्तरीय प्रश्नों के उत्तर दीजिए:

(a) Distinguish between Logistics Management and Distribution Management.

रसद प्रबंधन और वितरण प्रबंधन के बीच अंतर।

(b) What is a Public Warehouse ?

पब्लिक वेयरहाउस क्या है?

(c) State the need for Inventory Management.

माल-सूची प्रबंधन की आवश्यकता बताइये।

(d) What is a Bar code ?

बारकोड क्या है?

(e) Describe the Information system selection for Supply Chain Management.

आपूर्ति शृंखला प्रबंधन के लिए सूचना प्रणाली चयन का वर्णन कीजिए।

(f) What is Internal Logistics ?

आंतरिक लॉजिस्टिक्स क्या है?

2. Explain the meaning and functions of Logistics. Also discuss its importance in the era of high competition.

रसद के अर्थ और कार्यों की व्याख्या कीजिए। उच्च प्रतिस्पर्धा के युग में इसके महत्व की भी चर्चा कीजिए।

3. Discuss the meaning and importance of Customer service. Also discuss the Customer Service practices adopted by Business Organisation.

ग्राहक सेवा के अर्थ और महत्व पर चर्चा कीजिए। व्यवसाय संगठन द्वारा अपनाई गई ग्राहक सेवा पद्धतियों पर भी चर्चा कीजिए।

4. "An understanding of components of Supply Chain Management is crucial for the success of a Business firm." Explain.

"एक व्यावसायिक फर्म की सफलता के लिए आपूर्ति शृंखला प्रबंधन के घटकों की समझ महत्वपूर्ण है।" समझाइए।

5. Explain the various types of Warehouses and discuss their functions.

विभिन्न प्रकार के भण्डार गृहों की व्याख्या कीजिए तथा उनके कार्यों की विवेचना कीजिए।

6. Critically examine various types of Packaging material available in Market. Also discuss the factors considered while choosing a particular Packaging material.

बाजार में उपलब्ध विभिन्न प्रकार की पैकेजिंग सामग्री का समालोचनात्मक परीक्षण कीजिए। किसी विशेष पैकेजिंग सामग्री का चयन करते समय विचार किए जाने वाले कारकों पर भी चर्चा कीजिए।

7. Explain the applications of Information Technology in Logistics Management.

रसद प्रबंधन में सूचना प्रौद्योगिकी के अनुप्रयोगों की व्याख्या कीजिए।

8. Discuss the importance of Logistics performance measurement and control. Also discuss the features of a good Logistics performance measurement technique.

रसद प्रदर्शन माप और नियंत्रण के महत्व पर चर्चा कीजिए। एक अच्छी रसद प्रदर्शन मापन तकनीक की विशेषताओं पर भी चर्चा कीजिए।

BBA/M-22

24516

PRINCIPLES OF INSURANCE

Paper–BBA 311

Time Allowed : 3 Hours] [Maximum Marks : 80

Note : Attempt **five** questions in all, Question No. 1 is compulsory. All questions carry equal marks. कुल **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या **1** अनिवार्य है। सभी प्रश्नों के अंक समान हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. Explain the following in very short:
   निम्नलिखित को बहुत संक्षेप में समझाइए:

   (a) Functions of Insurance.
   बीमा के कार्य। 2

   (b) Functions of IRDA.
   आईआरडीए के कार्य। 4

   (c) Principles of Insurable Interest.
   बीमा योग्य हित के सिद्धांत। 4

   (d) Features of Endowment Life Insurance Policies.
   बंदोबस्ती जीवन बीमा पॉलिसियों की विशेषताएं। 2

   (e) Proposal form of Insurance.
   बीमा का प्रस्ताव प्रपत्र। 2

(f) Claim settlement procedure in Life Insurance.

जीवन बीमा में दावा निपटान प्रक्रिया।

2. Prepare a list of various Life Insurance and Non-life Insurance Companies Operating in India at Present. What are various Products and Policies offered by General Insurance Companies ? 16

वर्तमान में भारत में कार्यरत विभिन्न जीवन बीमा और गैर-जीवन बीमा कंपनियों की एक सूची तैयार कीजिए। सामान्य बीमा कंपनियों द्वारा पेश किए जाने वाले विभिन्न उत्पाद और नीतियां क्या हैं?

3. Write short notes on the following : 16

निम्नलिखित पर संक्षेप टिप्पणियाँ लिखिए:

(a) Money-back Life Insurance Policy.

मनी बैक लाइफ इंश्योरेंस पॉलिसी।

(b) Unit Linked Insurance Plan.

यूनिट लिंक्ड बीमा योजना।

(c) Annuities.

वार्षिकी।

(d) Fire Insurance.

अग्नि बीमा।

4. Explain the eligibility conditions to become an Individual agent of Insurance Companies in India. Explain code of conduct and remuneration rules about Life Insurance Agents. 16

भारत में बीमा कंपनियों का व्यक्तिगत एजेंट बनने के लिए पात्रता शर्तों की व्याख्या कीजिए। जीवन बीमा एजेंटों के बारे में आचार संहिता और पारिश्रमिक नियमों की व्याख्या कीजिए।

5. Give details about the Eligibility, functions, code of conduct and remuneration of Corporate agents. 16

कॉर्पोरेट एजेंटों की पात्रता, कार्यों, आचार संहिता और पारिश्रमिक के बारे में विवरण दीजिए।

6. Explain in brief any five provisions of LIC Act, 1956. Also explain some of the more popular products and policies of Life Insurance Companies. 16

एलआईसी अधिनियम, 1956 के किन्हीं पांच प्रावधानों को संक्षेप में बताएं। जीवन बीमा कंपनियों के कुछ अधिक लोकप्रिय उत्पादों और नीतियों की भी व्याख्या कीजिए।

7. Describe various documents and procedures for buying a non-life Insurance policy and making claim on the same. 16

गैर-जीवन बीमा पॉलिसी खरीदने और उस पर दावा करने के लिए विभिन्न दस्तावेजों और प्रक्रियाओं का वर्णन कीजिए।

8. Write notes on the following : 16

निम्नलिखित पर टिप्पणियाँ लिखिए:

(a) Health Insurance in India.

भारत में स्वास्थ्य बीमा।

(b) Liability Insurance.

दायित्व बीमा।

(c) Types of Motor Insurance Policies.

मोटर बीमा पॉलिसियों के प्रकार।

(d) Group Insurance and Social Insurance Policies.

समूह बीमा और सामाजिक बीमा पॉलिसियां।

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INTRODUCTION TO FINANCIAL SERVICES

Paper–BBA-312

Time Allowed : 3 Hours]   [Maximum Marks : 80

Note :   Attempt **five** questions in all. Question No. 1 is
compulsory. All question carry equal marks.

किन्हीं **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या 1 अनिवार्य
है। सभी प्रश्नों के समान अंक हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. (a)   Book Building.   3

           बुक बिल्डिंग।

    (b)   Portfolio Management.   3

           श्रेणी प्रबंधन।

    (c)   SEBI.   3

           सेबी।

    (d)   Consumer Finance.   3

           उपभोक्ता वित्त।

    (e)   Right Issue.   2

           अधिकार निर्गमन।

    (f)   Exchange Traded Fund.   2

           एक्सचेंज ट्रेडेड फण्ड।

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2. Define Financial Services. Explain the types of financial services.

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   वित्तीय सेवाओं को परिभाषित कीजिए। वित्तीय सेवाओं के प्रकारों का वर्णन कीजिए।

3. Explain the various activities of Merchant Banking.

   16

   मर्चेंट बैंकिंग की विभिन्न क्रियाओं का वर्णन कीजिए।

4. Discuss the process and importance of Credit Rating.

   10,6

   क्रेडिट रेटिंग की प्रक्रिया तथा महत्त्व का वर्णन कीजिए।

5. What are the different types of Mutual Funds?

   16

   म्यूचुअल फण्ड के विभिन्न प्रकार कौन-से हैं?

6. Write notes on the following :

   8,8

   निम्नलिखित पर संक्षिप्त टिप्पणियाँ लिखिए:

   (a) Underwriting.

   अभिगोपन।

   (b) Stock Broking.

   स्टॉक ब्रोकिंग।

7. Differentiate between the following :

   निम्नलिखित में अन्तर कीजिए:

   (a) Leasing and Hire purchase.

   पट्टा तथा किराया क्रय।

   (b) Debit card and credit card.

   8,8

   डेबिट तथा क्रेडिट कार्ड।

8. Explain the types and importance of Factoring.

   10,6

   फैक्टरिंग के विभिन्न प्रकारों तथा महत्त्व का उल्लेख कीजिए।