How can you underline a macro?

How a symbolic constant is defined in C?

Name the various types of error handling functions opened in C.

Name the various modes in which a file can be

Share some applications of pointer to pointer

on pointers.

Name the various operations that cannot be applied

What is meant by concatenation?

Describe various ways to impart a string.

Compulsory Question

All questions carry equal marks.

Questions select exactly one question from each unit.

Note: Q. No. 1 is compulsory. In addition, attempt four more

Maximum Marks: 80

Time: Three Hours

BCA-121

ADVANCED PROGRAMMING IN C

BCA/M-22

Total Pages: 03
16 Arguments.

Arguments are check for errors, if any, in command line. 

Write a program in C to read a number from command line argument and print the sum of the digits of the number entered.

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

3. How can you perform dynamic memory allocation in C?

4. Write a program in C using suitable function in C.

5. Explain the concept of pointer in pointer and handling array of structures.

6. Explain the following functions in C using suitable function.

7. Write a program in C to read the contents of a file.

8. Describe the various predefined macro names in C.

9. Write a program in C to read a number from command line argument.

10. Explain the following using suitable examples in C.
3. When is a buffer? Explain working of a clocked SR.

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

Unit I

(a) Trip Interrupt

(b) Laser printer

(c) Binary counter

(d) Preceding and clearing of a flip-flop.

carry equal marks

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

Maximum Marks: 80

Time: Three Hours
Describe various instruction formats with examples.

(a) LOAD instructions.

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

UNIT IV

Describe magnetic and Optical Storage Devices.

(a) Discuss various Memory Peripherals.

Various types of ROM.

Describe the difference between RAM and ROM.

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

UNIT III

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

(a) Asynchronous binary counter?

5. (a) What do you mean by synchronous and

counter? Explain.

(b) How will you convert a shift register to a timer

UNIT II

4. (a) Explain Serial In and Parallel Out + shift register

9. (4) Explain Program Controlled and Interrupt driven 1
Prove that \( 3^{n+2} - 8n - 9 \) is divisible by 64 for all \( n \in \mathbb{N} \).

\[
\frac{1+u}{u} = \frac{1}{1} + \frac{1}{1} + \frac{2}{1} + \frac{3}{1} + \frac{4}{1} + \cdots
\]

2. (a) Using Principle of Mathematical Induction, prove

\[(d \iff b) \iff (b \iff d)\] (ii)

\[(b \iff d) \iff (b \iff d)\] (i)

2. (b) Show that for all \( n \in \mathbb{N} \), \( n \) and \( n + 1 \) be any statements, then consider the

\[
(b \iff n) \iff (b \iff (n + 1))
\]

Note: Attempt the question in all \( G \). No. 9 is compulsory.

Maximum Marks: 80

Time: Three Hours

70-80

BCA-M.22

MATHEMATICAL FOUNDATIONS-II

B.C.A.-T.23

7874

1874

2.85a

1.874

2.85a

2.874

Question

Attempt one question from each unit.

8. For \( S \) with respect to addition modulo 6.

(iii) Let \( S = \{0, 1, 2, 3, 4\} \). Write the composition table

(iv) If a matrix is singular, then prove that \( O \) is a scalar matrix.

(v) Prove that \( V \neq 0 \) is a skew-Hermite matrix if \( A =
\[
\begin{bmatrix}
7 & 0 & 0 \\
0 & 1 & 0 \\
3 & 0 & 5
\end{bmatrix}
\]

(vi) Find the spectrum of the matrix:

(vii) Define symmetric matrix with example

(viii) Define positive definite and negative definite matrix

(ix) Identify the properties and write the condition of

(x) Define Nul Space

(xii) Define a Co-set
(2x2) (1, 1) \times (1, 1) = (2, 2)

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

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

\begin{bmatrix}
-1 & 2 \\
2 & 1
\end{bmatrix}

The following matrices:

1. Verify Cayley-Hamilton theorem and compute \( A^n \) for:

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

2. Find the inverse of the matrix:

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

3. Find \( X \) and \( Y \) if:

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

4. Prove that the set of real numbers is a field with respect to addition and multiplication.

5. Find the order of the group \( G \), where:

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

6. Find the rank of the matrix:

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

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

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

\begin{bmatrix}
2 & 1 \\
2 & 3
\end{bmatrix}
I. Discuss briefly features of Adobe FrameMaker.

(ii) Discuss various common features of DTP.

(iii) Required to explain:

2. (a) When is Desktop Publishing (DTP) & Why is it

Unit

1. Write down steps to insert a shape in a slide.

2. MS-Word:

3. What is the purpose of Author option in:

4. What is Slide Sorter view &

5. Discuss briefly Formate Painter used in MS-Word.

6. Maker & Explain briefly:

7. Do you understand by Hypothenion in Page

8. Discuss briefly features of Adobe FrameMaker.
8. Given title? Word document. How can cells be removed of a
8
8 Explain various methods to create a table in MS-
8
8 Discuss various steps to change font and font size

Unit III

8 Different steps to add rules to paragraphs.
8 What do you mean by paragraph? Rules? Discuss
8 Paragraph & Describer
8 What is the purpose of title and return options in
8
8 Example:
8 Margin in a publication? Explain with a suitable
8 What is the procedure to set page size and page
8 box in Paragraph
8 Options available in Character Specifications Dialogue
8 What is character formatting? Explain various

Unit II

8 Document
8 Discuss steps to insert special symbols in a
8 suitable example.
8 What is mail merge? Discuss mail merge giving a
8
7. (a) Control Panel
8 (b) Adobe Photoshop
8 (c) Corel Ventura
8 (d) Paintbrush
8 Write short notes on the following:
3. Discuss the basic social criteria.

4. Write short notes on the following:

(a) Types of interviews
(b) Group dynamics
(c) Oral presentation
(d) Personality

Note: Attempt five questions in all. Q. 1 is compulsory.

Time: Three Hours

Maximum Marks: 80
Also write down the resume.

7. Discuss in detail the ingredients and advantages of Group Skills.

8. Attempt a detailed account of the various factors involved.

9. Draw an application for the post of a Sales Executive and responsible for the success of an interview.

10. Review a detailed account of the various factors involved.
Discuss various methods of representation of binary

Unit I

2. (a) Define path matrix.
(b) What do you mean by hashing?
(c) What are the advantages of indirect representation?
(d) Compare linear and binary search algorithms.
(e) Explain briefly adjacency matrix with a suitable
(f) Example.
(g) Explain briefly adjacency matrix with a suitable
(h) Example.

3. (a) What is binary search? Describe applications
   compulsory. 0. No. 1. All questions carry equal marks.
   select one question from each unit in addition to
   compulsory. 0. No. 1. Attempt all questions in all,

Maximum Marks: 80

Time: Three Hours

BCA-241
ADVANCED DATA STRUCTURE
BCA/MA-22
1878

Roll No. ........................................
Total Pages: 03
8. What is binary search? Explain.

8. What is the complexity of the algorithm? Explain.

7. (a) What is the meaning of an algorithm? Write an algorithm to sort a given list using selection sort technique.

7. (b) What is the meaning of an algorithm? Write an algorithm to sort a list using quick sort method.

6. (a) Write an algorithm to sort a given list of elements using the insertion sort technique.

6. (b) Write an algorithm to sort a given list using the selection sort technique.

5. Write short notes on the following:

5 (a) Write an algorithm to find the shortest path in a graph. Explain.

5 (b) Write an algorithm to find the shortest path in a weighted graph. Explain.

4. (a) What is the meaning of a finite automaton?

4. (b) What is the meaning of a transition diagram?

3. (a) Write an algorithm for deletion of a node in binary search tree.

3. (b) Write an algorithm for preorder traversal of a binary tree.

2. (a) What is the meaning of a data structure?

2. (b) What is the meaning of a data structure?

1. (a) What is the meaning of a data structure?

1. (b) What is the meaning of a data structure?
and types in C++.

What is a constructor? Explain its characteristics.

What is an abstract class with examples.

Explain rules for virtual functions.

What is virtual function? Explain its need and various types of polymorphism in detail.

Section I

Explain need of templates in C++.

Example:

Explain the role of constructors in inheritance with example.

Define inheritance and its access specifiers.

Explain virtual destructor.

Each Section.

Attempt five questions by selecting one question from each Section.

Note: Attempt five questions in all. Q. No. 1 is compulsory. Maximum Marks: 80

BCA-242
Advanced Programming using C++
COMPUTER APPLICATIONS

1879

BCA/M-22

Roll No.:
Total Pages: 02
Section II

Explain super-class and sub-class with suitable examples.

Section III

Provided member inheritable?

When is provided access specifier? How do you make access specifier?

Section I

Explain exception with suitable examples. Explain various cases and methods to handle exceptions.

Section IV

Explain different forms of inheritance with suitable examples.
Discuss the following:
8. Models with examples.

2. (a) What is e-commerce? Explain its features and

Until

(d) Discuss Broker-Based Services.

(e) Explain characteristics of the supply-chain oriented

What do you mean by Credit Card and Smart Card?

(f) Explain various applications of B2C.

(compulsory question)

 earn equal marks.

Note: Attempt Five questions in all selecting one question

Maximum Marks: 80

Time: Three Hours

B.C.A-243

E-COMMERCE

B.C.A/M-22

1880

Roll No. ----------------------------------------

Total Pages: 03
8. Explain the following:

Unit IV

(a) Online Stock Trading

(b) e-Auctions

2 \times 8 = 16

7. Business Successful

different factors that are necessary to make e-Broker

6. What do you mean by e-Broker Business? Explain

Unit III

8.

(a) Explain e-Transaction and e-Governance.

(b) Explain different e-Governance Models in detail.

5 \times 4 = 16

4. Explain the concept of EDI (Electronic Data Interchange).

Unit II

8.

(a) What are the Management Issues in e-Commerce?

(b) Explain NETI and RTGS in detail.

3. (a) What do you mean by Electronic Payment System?
16
Relational Algebra

3. Define Relational Algebra. Explain various operations in

6
Codd’s rules for Relational Model.

2. What is the purpose of Codd’s rules? Explain various

Unit I
4. Explain P/L/SQL data types.

4
suitable examples.

(c) When is SQL template on SQL operators with
4
dependency with suitable example.

(b) Write a short note on transitive functional
4
Explanation Relational constraints with examples.

1. (a) Comprehension Question

carry equal marks.

Note: Attempt Five questions in all, selecting one question

Time : Three Hours

Maximum Marks : 80

BCA-244
SYSTEM
RELATIONAL DATABASE MANAGEMENT
BCA/M-22
1881

ROLL NO. 02
TOTAL PAGES : 02
Define and give appropriate examples.

II. DDL

6. Explain various commands in SQL along with suitable examples.
7. Explain the concept of query, view and indexes in SQL along with suitable examples.
8. Explain various control structures in PL/SQL along with suitable examples.

III. DML and DCL commands in SQL along with:
10. Explain various types of normal form with suitable examples.
(6-0+25) I-1882

Computer and Numerical Methods

Complementary Mean of Binomial Distribution

1. Complementary mean of binomial distribution.

2. Efficient of complement (n, p).

3. Show that the shift of origin has no effect on the co-

4. are honour cards (52). Find the proportion that the

card is a honour card (king, queen, and ace cards

playing cards (52). Find the proportion that the

a card is drawn from a well shuffled pack of

1. Define arithmetic mean, deviation and variance of a

2. Find the median time: 11.6, 11.3, 10.7, 18.0, 25.8, 19.0

The waiting time for a computer are given below

1. Find the median time:

Compute Question

Time: Three Hours

Maximum Marks: 80

BCA-245

Computer Oriented Statistical

1882

BCA/M-22

Roll No. 05
and

\[ X \]

Find a correlation coefficient (mean of \( X \))

\[ 2\bar{x} = 6 \]
\[ \bar{x} + 1 = 4 \]

From two regression equations

Unit III

Find rank correlation coefficient

\[ R = \frac{x}{2} \]

Given below as

The ranks of two attributes in a sample are as

\[ 9 \]
\[ X = 1, 61, 63, 63, 63, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72 \]

The pair of heights (and positions are as)

\[ X = 9 \]

Calculate rank Pearson coefficient of correlation for

Frequency (\( f \))

\[ 28, 62, 64, 66, 67, 69, 70, 71 \]

Value (\( X \))

\[ 1, 2, 3, 4, 5, 6, 7, 8 \]

Distribution

Find a binomial distribution for the following

\[ p = \frac{\text{No. of males}}{\text{No. of females}} \]

Obtain

\[ \frac{\text{No. of males}}{\text{No. of females}} \]

\[ \frac{\text{No. of males}}{\text{No. of females}} \]

1. Different forecasting and prediction in business

Forecasting

2. The distribution of age of males at the time of marriage

Unit I

\[ X = 1, 2, 3, 4, 5, 6 \]

\[ \frac{\text{No. of males}}{\text{No. of females}} \]

\[ \frac{\text{No. of males}}{\text{No. of females}} \]
The life expectancy of people in India in the year 1970 is expected to be 50 years. A survey was conducted in 11 regions of India and obtained results.

Define simple linear hypothesis of the form:

\[ Y = \beta_0 + \beta_1 X + \epsilon \]

(a) Find the probability of the selected item being defective. Choose a score randomly and solids in item from the scores S1, S2, S3, and S4. Each has 20 pieces of an item. The scores S1, S2, S3, and S4 have 10%, 20%, and 30% defective items respectively.

(b) Find the regression equations.

\[ \begin{align*}
X & = 0.11494 \times Z \\
Y & = 4.1458 + 0.17290 \times Z
\end{align*} \]

(c) Plot these equations on the following graph:

7. Do the data conform to the regression equations? Perform significance (a) variance (ANOVA). (b) Chi-square test in the contingency table.

9. Where does the following fall?

- At a significance level of 1%, the critical value is 23.21. If 23.21 is the critical value, there is significance.

- Do the data conform to the regression equation at a level of 0.05?

- Is there a linear relationship between the end of the year and the number of shares (A) from these four companies in thousands?

- The following calculations have been made for the closing prices of 12 stocks (X). Calculate the appropriate regression line.

\[ \begin{align*}
& X_A = 11494 \\
& Y_A = 4.1458 + 0.17290 \times Z
\end{align*} \]
For reference:

7. Explain the features, advantages, and limitations of ASP.

8. Discuss the feasibility between Java and JavaScript.

Then:

3. Write down all types of ASP objects.

3. Briefly introduce from object
defined in Web Browser

3. What do you mean by a Web Page?

4. S.D.N.

Computers' Question

From each unit, 0, No. 1 is compulsory

Note: Attempt five questions in all selecting one question.

Maximum Marks: 80

Time: Three Hours

B.C.A.-36!

TOOLS

WEB DESIGNING USING ADVANCE

B.C.A./M-22

1884

Roll No. 03

Total Pages: 03
1. Using appropriate examples explain the themes and
   functions available in DHTML.

2. Give suitable examples explaining the themes and
   functions available in DHTML.

3. Using appropriate examples explain the themes and
   functions available in DHTML.

4. Using appropriate examples explain the themes and
   functions available in DHTML.

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

6. Draw a Venn diagram between the relationships among
   HTML, DHTML, and XML.

16

2. Discuss various classical problems of synchronization.

3. How can the advantages of Unix be viewed and changed in Linux? Discuss using examples.

4. Discuss Remote File Transfer.

5. What is critical section? When are the requirements compulsary questions.

(Compulsory Question)

Note: Q. 3 & 4 are compulsory in addition to their attempt.

Maximum Marks: 80

Time: Three Hours

BCA-362
OPERATING SYSTEM-II

1885

BCA/M-22


UNIT II

8. Explain the purpose and general format of process
8. Describe the following:
   (a) file menus
   (b) file menus
   (c) file menus
   (d) file menus

UNIT III

5. Discuss the following with distributed operating
8. Describe various job control commands in Linux
8. List and explain the two types of shell variables.
8. Write a shell script to reverse a string enclosed by
   single quotes.
8. Remove the blank spaces between
   the keyboard and remove the blank spaces between
   words. If any.

UNIT IV

10. Discuss the architecture and distributions of Linux.
  9. Explain the Linux commands that are used for
     arithmetic operations.
  7. Explain the purpose and general format of process
UNIT II
9. What is composite transformation?

(b) Differentiate between window and viewport.

(c) Graphs.

(j) Enlist the various pointing devices used in computers.

(c) Enlist the various geometric transformations.

(e) Algorithm.

(d) What are the various disadvantages of fixed fill?

(c) When is scan conversion?

(b) Give the various types of coordinate representations.

(a) Passive graphics.

(a) What is the major difference between interactive and

(compulsory question)

Computer Graphics

maximum marks: 80

BCA-363

Computer Graphics

BCA/M-22

1886

Total Pages: 03

ROLL No.
9. How can you perform (i) scaling, (ii) translation, (iii) rotation, (iv) reflection in three-dimensional computer graphics in detail?

7. Explain the various positioning techniques used in scan conversion.

6. (a) What are the new coordinates of the point (4, 3) after the rotation by 90° about the origin?
(b) What is a display processor? How does it work?

5. (a) Compare and contrast the random scan and raster scan mechanisms.
(b) Explain the working alone with pros and cons of application.

4. (a) What is computer graphics? Discuss its major elements.
(b) What is a display device and in computer graphics, any two display devices use?

3. (a) Write down the steps to generate a circle using the polynomial method.
(b) Write down the steps to scan-convert an ellipse.

2. (a) Write down the steps to convert an ellipse.
(b) Write down the steps to scan-convert an ellipse.

1. Explain.
16

3. Explain ICP/IP reference model and its architecture layers. URL, HTTP, web browsers, USENET, and NNTP.

2. Explain various Internet services. Explain the following

Unit I

(a) MIME
(b) Telnet
(c) FTP
(d) IP Address

1. Answer all the following:

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

BCA-364
INTERNET TECHNOLOGY
BCA/M-22
1887

Maximum Marks: 80
Time: Three Hours

Roll No. ........................................
Total Pages: 03
1. When is Internet Security Explained in detail?
2. Explain Routing Information Protocol in detail.

Unit IV

8. In FTP, when do you mean by FTP? Explain data transfer

(d) Voice and video over IP.
(e) RSVP
(f) RTCP
(g) SSM
(h) SSDP

6. Explain the following terms:

Unit III

(f) ICMP
(c) IGMP
(a) ARP
(b) IPv6

5. Explain the following terms with header format: 4x4=16

4. Describe TCP, what are various fields of TCP Header?

Unit II

9. Explain the following terms:

(f) Firewall
(c) NAT
(b) Mobile IP
(a) BGP

4x4=16
1. Explain the help of an example.

2. Explain collection with its methods and properties with

   (a) **Form Load and Form Unload**
   (b) **Hide and Unhide methods**

3. Distinguish between the following:
   - **8×2**
   - **8×2**

**Unit I**

3. Explain Scale Mode property of graphics.

(c) Define **RDO**.

(d) Define **RDO**.

3. What is Dynamic Array?

(c) Method of **Form Load and Form Unload**

(b) What is the difference between **Form Load and Form Unload**?

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

**Note:** Attempt five questions in all. Select five questions from each unit. 0, 1 is compulsory. All questions carry equal marks.

**Maximum Marks:** 80

**Paper:** 365

**VISUAL BASIC**

ADVANCED PROGRAMMING WITH

**1888 BCA-M-22**

**Roll No.:**

**Total Pages:** 02

Unit IV

8. Explain picture box control. Write its properties.

Example:

4 x 2

7. (a) Explain the following graphics methods by using:

6. What type of components comprise a sequential file?

III

10. The menu commands for creating dynamic menu.

5. How can we manipulate menu at run time? Explain all

(d) Image List
   (c) Slide Control
   (b) List View
   (a) Rich Text Box

4. Write short notes on the following:

Unit II
Exercise 1

8 x 2 = 16

What is the purpose of AVT?

What is an exception?

Name and state purpose of any two pre-defined packages.

What is mean by inheritance?

What is the major difference between String and StringBuffer classes?

What is the purpose of labeled break and continue?

Programming Question

Consider the following classes, create a class named 'Animal' and derive a class 'Cat' from it.

Inheritance

Animal

Cat

Note: Attempt five questions in all. Q. No. 1 is compulsory.

Maximum Marks: 80

Time: Three Hours

BCA-366

PROGRAMMING IN CORE JAVA

BCA/M-22

1889

Roll No. 03

Total Pages: 03
9. Explain by creating a package and using that package.

7. How can you create a user-defined package in Java?

6. Explain multiple inheritance in Java by writing a program.

Unit III

5. What is meant by overriding and overloading? How are collection classes done in Java?

4. Explain the concept of various types of constructors in Java.

Unit II

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

9. What is an Apple? Write a program in Java to pass parameters to an Apple at runtime.

8. Describe various operators in Java in detail.

7. Explain Java Run-Time Environment in detail.

6. Explain how Java is different from other earlier programming languages.
4. Discuss the following:

Unit II

What is the access method?

What are the functions of the system? Also discuss various directory structures in detail.

2. What is the shell? Discuss various types of shells.

Unit I

Available in Unix.

(a) What is the shell? Discuss various shells of shells.
(b) What is the shell?
(c) What are shell processes?
(d) What are functional attributes of a file?
(e) What is inter-process communication?
(f) What are various attributes of a file?
(g) What are various attributes?

Compulsory Question

carry equal marks.

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

Time: Three Hours

Maximum Marks: 80

BSISD-21

OPERATING SYSTEMS-II

BSISD/M-22

ROLL NO: 02

TOTAL PAGES: 02
8. Explain the memory management in Unix operating system.

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

10. Write a brief history of Unix and compare MS-DOS and Unix.

Unit IV

16. What is a deadlock? Explain various ways for preventing a deadlock. What is the difference between deadlock avoidance and deadlock detection? Discuss Banker's algorithm to avoid deadlock.

Unit III

16. What is a semaphore? How semaphore problems can be solved with semaphores and Dining-philosopher problem. What is a semaphore?
and designing a website.

What is a website? Explain the process of planning.

Unit I

What is the use of Dreamweaver? (h)

What are major obstacles? (b)

What is JavaScript? (i)

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

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

What are class attributes? (c)

What is Internet Service Provider? (a)

What is a Web Server? (a)

carry equal marks.

From each Unit, Q. No. 1 is compulsory. All questions

each carry equal marks. Attempt five questions in all, selecting one question

Maximum Marks: 80

Time: Three Hours

BZSD-22
WEB DESIGNING
BZSD/M-22

TOTAL PAGES: 02
Unit IV
6. Explain the basics of Photoshop, alone with the features and properties.
5. When is JavaScript style sheet? Explain the Frame Object.
4. Operators and loops used in JavaScript.
3. When is the need of JavaScript?
2. Explain various functions.
1. Explain the process of working with graphics in Flash.

Unit III
6. A method to add style sheet to the HTML document. 
5. Write the syntax to create style sheet, also explain various alone with the examples.
4. Define CSS and explain different kind of CSS selectors.
3. Design a web page that shows the nesting of tables using
   suitable tags. Also show the linking of web pages using

Unit II
6. Images.
Answer the following questions in short:

1. **Computsory Question**

Questions carry equal marks. Questions selecting one question from each unit will be attempted in addition to compulsory question. Attempt five questions in all. Q. No. 1 is compulsory.

Note: Time: Three Hours

| Maximum Marks | 80 |

BSID-M-22

NETWORKING AND INTERNET

BSID-23
2. This (0 and 1) is in a modern
How is frequency modulation used for transmitting
(c) DST services?

(q) What is the difference between dial-up service and
How is communication supported by satellites?

(a) Answer the following questions in brief:

(a) Twisted pair cables?
(b) How are coaxial cables different from
cables? Describe how data is transmitted using twisted pair
and packet switching. Which one is preferred for
(b) Bring out a distinction between circuit switching

Unit II

(c) X.25 and Frame Relay networks.

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

(a) Client/server model and web-based model of

With reference to the context of Internet Security:

(c) Describe and distinguish between:

How is a MAN different from a LAN?
and WANS and bring out the distinction between the two.

2. Sketch and describe the topologies associated with LANS

Unit I

is analogous.

(a) Draw a sketch of the Internet Infrastructure to depict

5. The following in the context of the Internet:

(a) Based on your Internet-based experiences and information:

(b) 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 Internet Security:

(b) In token ring LAN and Ethernet LAN
Describe the media access control mechanism used
(c) Describe the CRC method for error detection

(c) Authentication

(e) Encryption

(f) Security Measures

(g) Unit

(h) Unit
Various looping constructs available in PHP:

3. When do you mean by operations in PHP? Also show the
side scripting language.

2. When do you mean by a web server? Write a detailed

Unit I

(a) DML statements in SQL
(b) Regular expressions
(c) Regular function
(d) Word wide web
(e) Write short notes on the following:

Note: Attempt five questions in all, select one question

Maximum Marks: 80

Time: Three Hours

BVD-24
WEB PROGRAMMING—PHP
BVD/M-22

12218

Roll No. ...........................................
Total Pages: 02
product in SQL.
product sale of product. call of a product stock of a
database queries for various operations. The purchase of
Design a web application for a grocery store. Write the
Show using suitable examples.
What do you mean by PHP database handling functions?

Unit I

Unit II

Unit III

Unit IV

Veriﬁable code. Explain various types of references in functions.

Explain the following:

- Explain the application languages.
- Explain how to handle arrays in comparison to other
- Examples. Also show how PHP is having a more
- Describe various types of arrays in PHP using suitable
- Describe suitable examples.
2. (a) What do you mean by type constructor? Explain.

Unit I

8x2=16

(a) Discuss pressure cooker.

(b) What is shadow paging?

(c) Write a note on distributed deadlock.

(d) What do you mean by transaction serialization?

(e) Other.

(f) How HTML, XML and XSL are related to each other.

(g) Discuss classification.

(h) List the different types of data mining functionalities.

(i) Briefly discuss client-server architecture.

(j) Object.

1. (a) Difference between structured and unstructured

Compulsory Question
carry equal marks.

from each Unit. Q. No. 1 is compulsory. All questions given above are compulsory. Attempt five questions in all, selecting one question from each unit.

Note: Attempt five questions in all, selecting one question from each unit.

Maximum Marks: 80

Time: Three Hours

B V S D - 4 1

R D B M S - II

B V S D / M - 2 2

12219

ROLL No. ..........................................................

Total Pages: 03
preference graph can be used to detect deadlock.

7. What is deadlock prevention and avoidance? How

5. Explain different types of deadlock.

3. Explain the role of deadlock detection.

1. Explain the concept of deadlock.

9. What is the different forms of deadlock?

1. Explain the concept of deadlock.

8. What is the different from of deadlock?

6. Explain the concept of deadlock.

4. What is the different form of deadlock?

2. Explain the concept of deadlock.
UNIT I

1. What is an information system? Discuss its role in business.

2. Discuss the different types of information systems.

3. Discuss various information system resources and products.

4. Discuss fuzzy logic systems.

5. Explain the fuzzy logic systems.

6. Discuss common queries against computer.

(c) Compulsory Question

Notes:
- Answer five questions in all, selecting one question from each unit.
- Question number 6 is compulsory.
- Maximum Marks: 80
- Time: Three Hours

BVED-42
MANAGEMENT INFORMATION SYSTEM
BVED/M-22
12220
ROLL No: 02

Total Pages: 02
Discuss the knowledge management value chain.

(a) Explain:
(b) When are various types of knowledge work systems?
(c) Discuss Group Decision-support systems.
(d) Discuss Structured decision.
(e) Distinguish between unstructured, semi-structured

Unit IV

(iii) Security issues for cloud computing. 
(iv) Encryption and Public Key Infrastructure
(v) Discuss the following:

7. Explain the benefits and challenges of CRM.
8. Discuss customer relationship management systems. Also

Unit III

(iv) Data Mining,
(v) OLAP
(i) Text Mining and Web Mining

5. Discuss the following:
6. Discuss the current trends in hardware platforms.
What is the purpose of using final keyword?

How thread priorities can be set in Java?

Name and explain any three built-in exceptions.

What is the purpose of using super keyword?

In a thread class, what do understand by sleep() and yield() methods.

Differentiate between applet and a simple Java program.

How arrays can be created in Java? Explain in brief.

Java is both compiled and interpreted. Comment.

(Compulsory Question)

From each Unit attempt four more Questions selecting one Question.

Note: Attempt Five Questions in all. Q. No. 1 is Compulsory.

Time: Three Hours

Maximum Marks: 80

B V S D - 4 3

J A V A  P R O G R A M M I N G

B V S D / M - 2 2

1 2 2 2 1
Describe various operators along with their precedence in Java in brief.

(a) Describe various operators along with their precedence in Java in brief.

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

(c) Describe various operators along with their precedence in Java in brief.

(d) Describe various operators along with their precedence in Java in brief.

(e) Describe various operators along with their precedence in Java in brief.

(f) Describe various operators along with their precedence in Java in brief.

(g) Describe various operators along with their precedence in Java in brief.

(h) Describe various operators along with their precedence in Java in brief.

(i) Describe various operators along with their precedence in Java in brief.

(j) Describe various operators along with their precedence in Java in brief.

(k) Describe various operators along with their precedence in Java in brief.

(l) Describe various operators along with their precedence in Java in brief.

(m) Describe various operators along with their precedence in Java in brief.

(n) Describe various operators along with their precedence in Java in brief.

(o) Describe various operators along with their precedence in Java in brief.

(p) Describe various operators along with their precedence in Java in brief.

(q) Describe various operators along with their precedence in Java in brief.

(r) Describe various operators along with their precedence in Java in brief.

(s) Describe various operators along with their precedence in Java in brief.

(t) Describe various operators along with their precedence in Java in brief.

(u) Describe various operators along with their precedence in Java in brief.

(v) Describe various operators along with their precedence in Java in brief.

(w) Describe various operators along with their precedence in Java in brief.

(x) Describe various operators along with their precedence in Java in brief.

(y) Describe various operators along with their precedence in Java in brief.

(z) Describe various operators along with their precedence in Java in brief.

Describe various types of wrapper classes using suitable examples.

(a) Describe various types of wrapper classes using suitable examples.

(b) Describe various types of wrapper classes using suitable examples.

(c) Describe various types of wrapper classes using suitable examples.

(d) Describe various types of wrapper classes using suitable examples.

(e) Describe various types of wrapper classes using suitable examples.

(f) Describe various types of wrapper classes using suitable examples.

(g) Describe various types of wrapper classes using suitable examples.

(h) Describe various types of wrapper classes using suitable examples.

(i) Describe various types of wrapper classes using suitable examples.

(j) Describe various types of wrapper classes using suitable examples.

(k) Describe various types of wrapper classes using suitable examples.

(l) Describe various types of wrapper classes using suitable examples.

(m) Describe various types of wrapper classes using suitable examples.

(n) Describe various types of wrapper classes using suitable examples.

(o) Describe various types of wrapper classes using suitable examples.

(p) Describe various types of wrapper classes using suitable examples.

(q) Describe various types of wrapper classes using suitable examples.

(r) Describe various types of wrapper classes using suitable examples.

(s) Describe various types of wrapper classes using suitable examples.

(t) Describe various types of wrapper classes using suitable examples.

(u) Describe various types of wrapper classes using suitable examples.

(v) Describe various types of wrapper classes using suitable examples.

(w) Describe various types of wrapper classes using suitable examples.

(x) Describe various types of wrapper classes using suitable examples.

(y) Describe various types of wrapper classes using suitable examples.

(z) Describe various types of wrapper classes using suitable examples.

Explain the concept of various types of constructors in Java.

(a) Explain the concept of various types of constructors in Java.

(b) Explain the concept of various types of constructors in Java.

(c) Explain the concept of various types of constructors in Java.

(d) Explain the concept of various types of constructors in Java.

(e) Explain the concept of various types of constructors in Java.

(f) Explain the concept of various types of constructors in Java.

(g) Explain the concept of various types of constructors in Java.

(h) Explain the concept of various types of constructors in Java.

(i) Explain the concept of various types of constructors in Java.

(j) Explain the concept of various types of constructors in Java.

(k) Explain the concept of various types of constructors in Java.

(l) Explain the concept of various types of constructors in Java.

(m) Explain the concept of various types of constructors in Java.

(n) Explain the concept of various types of constructors in Java.

(o) Explain the concept of various types of constructors in Java.

(p) Explain the concept of various types of constructors in Java.

(q) Explain the concept of various types of constructors in Java.

(r) Explain the concept of various types of constructors in Java.

(s) Explain the concept of various types of constructors in Java.

(t) Explain the concept of various types of constructors in Java.

(u) Explain the concept of various types of constructors in Java.

(v) Explain the concept of various types of constructors in Java.

(w) Explain the concept of various types of constructors in Java.

(x) Explain the concept of various types of constructors in Java.

(y) Explain the concept of various types of constructors in Java.

(z) Explain the concept of various types of constructors in Java.

What do you understand by inheritance?

(a) What do you understand by inheritance?

(b) What do you understand by inheritance?

(c) What do you understand by inheritance?

(d) What do you understand by inheritance?

(e) What do you understand by inheritance?

(f) What do you understand by inheritance?

(g) What do you understand by inheritance?

(h) What do you understand by inheritance?

(i) What do you understand by inheritance?

(j) What do you understand by inheritance?

(k) What do you understand by inheritance?

(l) What do you understand by inheritance?

(m) What do you understand by inheritance?

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(o) What do you understand by inheritance?

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(q) What do you understand by inheritance?

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(s) What do you understand by inheritance?

(t) What do you understand by inheritance?

(u) What do you understand by inheritance?

(v) What do you understand by inheritance?

(w) What do you understand by inheritance?

(x) What do you understand by inheritance?

(y) What do you understand by inheritance?

(z) What do you understand by inheritance?
3. Explain various controls in the toolbar of VB IDE.

Unit 1

4. Describe any four common controls in VB in detail.

5. Discuss any four major properties of a form.

6. Differentiate between variable and constant.

7. Describe the purpose of form layout in VB IDE.

Compulsory Question

Note: Q. No. 1 is compulsory in addition to answering four questions. Each question carries equal marks.

Time: Three Hours

BVID

VISUAL PROGRAMMING

BVID/M-22

Roll No. 42

Total Pages: 02
UNIT I

9 Explain using suitable examples. How can you create and use activeX controls and ActiveX connected to a database using any of the mechanism. Explain in detail Write a program in which VB is.

8 When are the various ways to connect VB with a database?

UNIT II

9 The complete code. Box on to a picture box. To perform drag and drop operation by dragging a label.

9 Discuss its purpose in detail. Also write a program in VB.

9 What is meant by drag and drop operation in VB.

9 Create a project in VB in which you can add, delete and

UNIT III

9 The design and write the complete code. Write a program in VB to create a basic calculator. Show help of appropriate examples.

8 Discuss various types of operations in VB with the

8 using suitable examples.

8 Create dynamic arrays in VB. If yes, how. Explain

8 How arrays are declared and used in VB? Can we
1. What is Tunnelling? (d) Discuss Data Dissemination networks.
   Name your routing algorithms for Mobile and home.
   Abbreviate TCP, FDMA, MANET, MAC.

2. What is Hidden Station and Exposed Terminal? (a) Discuss GSM Handover, Callling and Security issues.
   Explain data transfer using CDMA and GSM.

3. What are optimum solutions? (b) Explain functioning and working of TDM, and SDMA.

Unit I

1. What is Tunnelling? (d) Discuss Data Dissemination networks.
   Name your routing algorithms for Mobile and home.
   Abbreviate TCP, FDMA, MANET, MAC.

Note: Attempt five questions in all, selecting one question from each Unit. 0, 1 is compulsory. All questions are mandatory. Time: Three Hours. Maximum Marks: 80

BSB-61
MOBILE COMPUTING

BSB/M-22

ROLL NO. 19/321747
TOTAL PAGES: 02
16  Working

16 Where is a note on Bluetooth technology and is it

9. Explain Wound of WAP

16 On Demand Routing Protocol

8. What is WLAN? Discuss its properties and explain one

UNIT I

16 Discuss QoS issues in data transmission

7. Explain Inference techniques

16 What is context aware computing?

6. Explain Client server computing with adaption

UNIT III

16 Write a note on Indirect TCP and Sniffing TCP

5. What is DHCP? Explain its working?

16 Discovery and Optimization

4. Explain concept of Mobile IP, packet delivery, Agent

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

Unit I

What are the various strategies for dealing with risks while administering security? What is a secure condition? How can it be prevented? What are the advantages and disadvantages. Describe any one authentication method along with cryptography. What do you mean by the term "authentication"? What is the purpose of Diffie-Hellman algorithm in Information Security? What is the importance of hash function in security? Assess any four of the following assertions in short:

1. (Comprehensive Question)

From each unit, all questions carry equal marks.

Attempt four more questions, selecting one question from each topic.

Note: Attempt five questions in all. Q. No. 1 is compulsory.

Time: Three Hours

Maximum Marks: 80

BSID-62
INFORMATION SECURITY

BSID/M-22

ROLL No. 03

TOTAL PAGES: 03
Unit I

V. Describe the following in brief:
(a) Kinds of intranet posed by ARP spoofing
(b) Functions performed by Intrusion Detection System
(c) Threat characteristics and types

9. Describe the following in brief:
   (a) How to handle the security threats in a network or the brief overview of any these techniques/protocols that are used to contain the security threats in a network.
   (b) Describe the issues related to network security.

Unit II

DEA algorithm for cryptography:
(b) How is encryption and decryption carried out in between public and private keys.
(c) What is Asymmetric Cryptography? Distinguish of its use.
(d) What is symmetric-key cipher and give an example cryptography? Describe differences in encryption.
1. Write the requirement in O.S. Discuss.

2. Discuss the Test criteria.

3. Compute its cyclomatic complexity. Flow Graph (CFG) by taking an example and draw the control structure.

4. What is Quality software test? What are various parameters of software quality?

5. What is cyclomatic complexity? Draw the control structure.

(Compulsory Question)

Note: Attempt five questions in all, selecting one question from each unit.

Time: Three Hours

Maximum Marks: 80

BVD-63
SOFTWARE TESTING
6. Discuss the following:

Unit II

(a) Decision Table Technique.
(b) Cause Effect Diagram
(c) Boundary Value Analysis

8. Discuss the following box testing techniques using examples:

- What is black box testing?
- Discuss the following block diagrams.
P.T.O.

8

(b) Explain the architecture of Linux operating system.

8

Types of operating systems in detail.

2. (a) What is an operating system? Explain various

unique

8×2=16

(4) What is IP? What are the various working modes in IP?

Linux

5.

(5) What is the purpose of using 'who' command in

Linux?

(6) What is 'who' command?

(c) Discuss the purpose of using 'ps' in Linux.

(d) Explain 'ps' and use commands in Linux.

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

(f) Name various Linux distributions.

I.

Compulsory Question

carry equal marks.

from each Unit Q. No. 1 is compulsory. All questions

Note: Attempt Five questions in all, selecting one question

[Maximum Marks: 80]

Time: Three Hours

B.V.S.D-64

LINUX AND SHELL PROGRAMMING

B.V.S.D/M-22

12226

Roll No. ..................................................

Total Pages: 09
Unit III

6. Discuss the operators for the following in editor.

```
vi
```

(16)

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

(8)

6. What is a process? How a process is created and
   removed in Linux? Explain.

(8)

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

(8)

4. Explain the purpose and working of the following:

```
vi
```

(16)

3. (a) How a process is done in Linux? Explain.

(8)

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

(8)

1. Explain the procedure for creating partitions and
   formatting.

(8)

1. How can you install Linux in your system? Explain.

(8)

8. How can backup is taken in Linux? Explain.

(b)

8. Linux ? Linux & improve the strategy for backup in
   Linux. How backup is taken in Linux? How can you
   improve the backup in Linux?

(b)

8. Write a short note on file system in Linux.

(b)

8. Explain the procedure for connecting to a remote machine in
   Linux.

(b)

8. Explain the purpose and working of the following:

```
vi
```

(16)

6. Discuss the operators for the following in editor.

```
vi
```

(16)

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

(8)

6. What is a process? How a process is created and
   removed in Linux? Explain.

(8)

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

(8)

4. Explain the purpose and working of the following:

```
vi
```

(16)

3. (a) How a process is done in Linux? Explain.

(8)

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

(8)

1. Explain the procedure for creating partitions and
   formatting.

(8)

1. How can you install Linux in your system? Explain.

(8)
24501/K/1356/2,450

organization manual
(d) What do you understand by Organization chart and

(e) Explain the meaning of Social Responsibility

(f) Explain Management Information System

Anytime minus management is nothing classify the

1. Explain the following:

Comprehensive Question (10 marks)

Note: Attempt five questions in all. Question No. 1 is
Time allowed: 3 Hours

Maximum Marks: 80

Paper-EBBA-108

PRINCIPLES OF MANAGEMENT

BBAM-22

Roll No. ..............................................

Total Pages: 3
5. What is departmentation? Discuss the main basis of departmentation. Explain the statement giving importance to formal and informal organisation of organisational structure. Explain the various steps involved in the process of planning. What is planning? Discuss the main steps involved in the process of planning. Explain the contribution of F.W. Taylor in the field of management.

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

7. What are the factors affecting the budgetary control?

8. Do you suggest to over come them?
Paper-BBA-109

ANALYSIS OF FINANCIAL STATEMENTS

24502

BBAM-22

Total Pages : 5

Roll No.

1. Write notes on the following:

Comprehensive Question (All attempts mandatory)

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

Time Allowed: 3 Hours

Maximum Marks: 80
5. Explain the procedure of preparing Cash Flow Statement

6. What do you mean by Funds Flow Statement? How is it prepared? Discuss the managerial uses of Funds Flow statement.

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

(a) Statement of Changes in Working Capital

31 December 2017 31 December 2018

- Profit & Loss Account

- Balance Sheet

8. What factors would you use to measure long-term solvency?

9. What do you mean by ratio analysis? Discuss its limitations.

10. What are the limitations of such analysis?

11. Classification of Funds Flow
(d) Working capital

* Additional Informations:

(e) Return on Capital Employed

(b) Various Receivables of entity financial statements:

(c) Objection of Financial Statements

8. Where bank notes on the following:

<table>
<thead>
<tr>
<th>Date</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>31.03.2017</td>
<td>31.03.2018</td>
</tr>
</tbody>
</table>

During the year, the company also purchased new machinery with an additional amount of $15,000. The book value of the machinery on the date sold for $10,000. The balance of the machinery on the date of sale was $7,000. The machinery, which was purchased in 2017 for $7,500 was

Total

Trade Receivables

Inventory

Depreciation Fund

Plant and Machinery

ASSETS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>4,850</td>
</tr>
<tr>
<td>Trade Payables</td>
<td>5,500</td>
</tr>
<tr>
<td>Provision for Taxation</td>
<td>2,400</td>
</tr>
<tr>
<td>Proposed Dividends</td>
<td>30,000</td>
</tr>
<tr>
<td>Profit &amp; Loss Balance</td>
<td>1,20,000</td>
</tr>
<tr>
<td>Share Capital</td>
<td>3,00,000</td>
</tr>
</tbody>
</table>

TOTAL

TOTAL

Trade Receivables

Inventory

Depreciation Fund

Plant and Machinery

EQUITY AND LIABILITIES:

Particulars

(1) Profit & Loss

Fund Flow Statement

(2) Additional Informations
24503/M/2440/2450/F

1. Write short notes on the following:

(a) Difference between Voluntary and Involuntary

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

(c) Define Marginal Efficiency of Capital

(d) Where is Say's law of market?

(e) Define Opportunity Cost

(Compulsory Question: Select four questions from the remaining seven questions)

Note: Attempt five questions in all. Question No. 1 is Time Allowed: 3 Hours

PAPER- BBA I 110

MANAGERIAL ECONOMICS-II

24503

Total Pages: 3
2. Explain the Liquidity Preference Theory of Interest.

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

4. Define Macroeconomics. Explain the main components of the Macro Economy.

5. Write short notes on the following:
   - Relationship between Multiplier and MPS.
   - Importance of MPS.
   - Importance of Multiplier.

6. Define Consumption. Explain the Cycle Hypothesis of Consumption and its limitations.


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

9. Why is it important to measure National Income?
1. Answer the following in brief.

**Compulsory Question (4 Questions)**

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

Maximum Marks: 80

Time Allowed: 3 Hours
6. Highlight the nature of social stratification of Indian society.

7. Explain the process of socialisation with suitable examples.

8. Describe meaning and factors of social change in our society.

\[
\int \frac{x^4 + x^2}{x^2} \, dx
\]
(a) Evaluate.

\[
\int \frac{x^2 + 7x + 12}{2x} \, dx
\]
(b) Evaluate.

\[
\int \frac{1 - \sqrt{x}}{x} \, dx
\]
(c) Evaluate.

8. Prove that \( A < 9.\)

9. Let \( A \) and \( C \) be two positive numbers then prove that \( A < C.\)

9. Solve the equation:
\[10 = x + x^2 + 10 + 1 + 9 + 1 + 1\]

2. (a) Find the equation of the line such that it is perpendicular to \( 2x - 3y = 0 \) and passes through \((4, 5).\)

(b) Find the coordinates of the incenter of a triangle whose vertices are \((-3, -1), (-1, 3)\), and \((6, 2).\)

Note: Attempt five questions in all. Question No. is essential.

Maximum Marks: 80

Total Marks: 112

Paper: BBA-112

Business Mathematics II

BBA-M-22

Roll No. 3
8. (a) Find the value of \( k \) for which the points \((-1, f(1), 2)\)
and \((a, f(a))\) are collinear.

8. (c) Find the area of \( \mathcal{A} \). 

8. (d) Evaluate: 
\[
\int_{0}^{1} \left( \frac{\sqrt{x} - \sqrt{x}}{1 - \sqrt{x}} \right) \, dx
\]

8. (a) Find the angle between the lines \( x + \sqrt{3} y = 7 \) and \( 7x + 7\sqrt{3} y = 7 \).

8. (a) Find the terms in a and \( b \).

8. (b) Find \( a \) and \( b \) in such that 
\[
\frac{1}{a} + \frac{1}{b} = \frac{1}{c}
\]

8. (b) Find the compound interest on the sum of Rs. 7,865 
for 8 years at 3\% p.a.

8. (a) Find the demand function for a commodity is \( p = e^{-x} \).

8. (a) The consumer's surplus when \( p = \sqrt{3} \).
(a) Why are the characteristics of non-verbal communication important and how do they impact the meaning of communication?

(b) Write short notes on the following:

Compulsory Question (All questions carry equal marks. Compulsory. All questions carry equal marks.

Note: Attempt five questions in all. Question No. 1 is

Maximum Marks: 80

Time Allowed: 3 Hours

Paper-BBA-113

BUSINESS COMMUNICATION-I

24506

Total Pages: 3
A. Give a general overview of business communication.

B. Discuss the seven C's of business communication in detail.

1. What is good business letter? Give a general overview of business communication.

2. 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.

3. Discuss the seven C's of business communication in detail.

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

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

6. Write a good business letter. Explain how it is formatted and written.

7. What are synonyms? Give synonyms for accurate, humble, admirable.

8. What are antonyms? Give antonyms for rude, humble, admirable.

9. How can we effectively communicate in multicultural teams?

10. Why is it important to adapt our communication style to our audience?
1. Explain the following concepts:

(a) Group synergy
(b) Social learning
(c) Feedback process
(d) Group obedience

Note: Answer five questions in all. Question No. 1 is compulsory. Attempt remaining four questions out of remaining seven questions. All questions carry equal marks.
16. What is group communication? What are the types and situations factors affecting group communication?

16. When is group communication? What are the methods of raising group morale? What are the techniques of measuring affecting the morale?

16. Why are the factors affecting effectiveness of a team?

8. How to work better and more efficiently as a team?

7. Explain the elements and importance of interpersonal communication.

6. Define group dynamics. Its types and factors for poor group dynamics.

5. What is social learning? What are the types and factors of learning?

2. Explain the nature of a group. Explain group as a medium of performance.

1. Find the difference:

(1) Competition and cooperation
(2) Group development
(3) Group awareness
and Composition of Trade?
(d) What is the difference between Volume of Trade?
(e) What is the difference between GATT and WTO?

Define Globalization.

Write the three major objectives of Fiscal Policy.

Answer the following questions:

Compulsory Question (Answer Both)

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

Time Allowed: 3 Hours
Maximun Marks: 80

Paper-BBA 209

MACRO BUSINESS ENVIRONMENT

BBA/M-22 24508

Total Pages: 3

Roll No.
6. Define industrial policy. What are the objectives of industrial policy in India?

5. Discuss the main features of Israel EXIM policy of India. How will you justify the membership of World Bank for India?

4. What do you mean by World Bank? How will you justify its advantage and disadvantages in India?

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

2. What is meant by Foreign Capital? Give its classification.

1. Define Deterior Finance.
(a) Explain and illustrate correlation.
(b) Normal equations for regression
(c) Explained and unexplained variation.

1. Explain the following:

- Computation Question (Marks 30)

Note: Attempt five questions in all question No. 1 is maximum marks : 80
Time allowed: 3 hours

6. Consider the following time series model:

\[ y_t = \beta_0 + \beta_1 y_{t-1} + \epsilon_t \]

7. Write the procedure to solve (Q1b) and III using Excel.

8. Whether the sample represents the population. Discuss in detail about the function error term. Discuss in detail.

- Population

- Sample

- Sample size

- Confidence interval

- Hypothesis testing procedure.
The probability that an LED bulb will last for 150 days is 0.7. What is the probability that it will last 10 years? (b) The probability that an LED bulb will last for 150 days is 0.7. What is the probability that it will last 10 years? (c) A husband tells his wife 6 out of 10 times. His wife tells the truth 7 out of 10 times. What are the chances that both are telling a lie to each other? (d) Give examples of various types of events and explain the difference between them. (e) Find the correlation between income and expenditure. (f) Determine the equation of trend line. (g) Find the relationship between Correlation and Regression coefficients. (h) Compute the standard error of estimate and coefficient of determination between productivity (y) and bonus (x). (i) Compare the standard error of estimate and coefficient of determination between productivity (y) and bonus (x).
(c) When are modern distribution channels likely to be effective?

(d) Meaning of marketing research.

(e) Describe various stages of product life cycle.

(f) Objectives of market segmentation.

(g) Differentiate between selling and marketing.

1. Explain the following:

**Compulsory Question (4 marks)**

Note: Attempt the questions in all Questions No. 1.

Maximum Marks: 80

Time Allowed: 3 Hours

Paper-BBA-211

MARKETING MANAGEMENT

BBA/M-22

Total Pages: 3
1. Describe the marketing environment. Explain the components.

2. Define marketing objectives. Explain the components.

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

4. Discuss the concept of new product development process.

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

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

7. Explain the essentials of good marketing information system.

8. Define packaging. What are the functions of packaging?
(d) Discuss wealth maximization approach of dividend

(ii) Explain Optimum Capital Structure:

Explain

(iii) Investment decisions affect the profitability of the firm:

(iv) Discuss the functions of financial manager:

Note: Answer the questions in all Question No. 1 to 10

Maximum Marks: 80

FINANCIAL MANAGEMENT

2451

BBA-M.A. 22

Total Pages: 7
A company is considering an investment proposal. A financial manager of an automobile company, you need to do a financial analysis. What are the factors affecting financial planning?

1. What are the factors affecting financial planning?

2. What is the current ratio of the company?
16. A program's cost sheet of a company provides the following particulars:

<table>
<thead>
<tr>
<th>Amount per unit</th>
<th>£</th>
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<tbody>
<tr>
<td>200</td>
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Determine the capital structure of a company

Where do you mean by capital structure? Explain the reasons

1. What is the expected price of the shares?

2. What is the total cost of the shares?

3. What is the total cost of the shares?

4. What is the total cost of the shares?

5. What is the total cost of the shares?

6. What is the total cost of the shares?

7. What is the total cost of the shares?

8. What is the total cost of the shares?

9. What is the total cost of the shares?

10. What is the total cost of the shares?

11. What is the total cost of the shares?

12. What is the total cost of the shares?

13. What is the total cost of the shares?

14. What is the total cost of the shares?

15. What is the total cost of the shares?

16. What is the total cost of the shares?
(vi) One fourth of the output is sold against cash.

\[ \frac{1}{4} \text{ output} \]

When do you mean by long-term, medium-term and short-term?

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

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

(iv) Credit allowed to dealers is two months.

Credit allowed by the suppliers is one month.

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

100% material and 100% value added tax. The turnover is Rs. 1,04,000 units.

Input materials are in process on an average for half a month.

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

The following input particulars are available:

\[ \text{Input materials} \]

\[ \text{Units} \]

\[ \text{Value} \]

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Compulsory Question (Answer all)

1. Write short notes on the following:

Entrepreneurship Development

BBAM-22

Roll No. : 3

Total Pages : 3
5. When is a new venture explained the various stages for starting up.

6. Write short notes on the following:

(a) Schemes of NSIS for supporting enterprises.

(b) Government schemes for support of enterprises.

7. Describe the institutional set-up for the entrepreneurial term sources finance.

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

9. Explain the Entrepreneurship Development Institute of India.

10. Explain Credit Guarantee Fund Scheme.

11. Explain the different types of entrepreneurship with examples.
7. Who can become member of a company?

(a) Directors

(b) Registered members

(c) All members

(d) Difference between Public company and Private company

2013

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

1. Explain the following:

Compassory Question (Maximum marks: 20)

Please answer the questions.

Note: Answer all questions in all Question No. 1.

Maximum marks: 80

Time Allowed: 3 Hours

Paper-BBA-309

BUSINESS LAW-II

BBA/M-22

Total Pages: 3
explain their legal positions

6. " director are the Heads of the company. Complain and

describe the different kinds of directors.

5. distinguish between Directors, Shareholders and Shareholders. Also

whims of Share capital

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

documents. Explain this statement and discuss the Doctrine

3. Ammunition and Article of association are public

follow the incorporation of a public company.

2. When is promotion of a company? Explain a procedure to be

followed.

1) Meaning of oppression and mismanagement of a

company.
(d) What is a Bar code?

(c) State the need for Inventory Management.

(b) What is a Public Warehouse?

(a) Differentiate between Logistics Management and Distribution Management.

1. Answer the following short answer type questions:

(Compulsory Questions)

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

Time Allowed: 3 Hours

Maximum Marks: 80

Paper-BBA 310

LOGISTICS MANAGEMENT

BBM-12

Roll No.

Total Pages: 3
5. Explain the various types of warehouses and discuss their functions.

4. Explain management is crucial for the success of a business firm.

3. Discuss the importance of customer service.

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

1. What is internal logistics? Explain.
(b) Functions of IRDA

2. Explain the following in very short:

(a) Compulsory Question (apply all)

Note: All questions carry equal marks.

Maximum Marks: 80

Time Allowed: 3 Hours

Paper-311

PRINCIPLES OF INSURANCE

24516

BBA/M-22

Total Pages: 3
5. Give details about the Eligibility Function of condur.


7. Write short notes on the following:
   (a) Non-Life Insurance Policy
   (b) Health Insurance in India
   (c) Group Insurance and Social Insurance Policies

8. Write notes on the following:

4. Explain the eligibility conditions to become an Individual

5. Write notes on the following:

6. Prepare a list of various life insurance and non-life insurance companies, their issues, and their products.

7. Give details about the eligibility, functions, code of conduct, and remuneration of corporate agents.

8. Write notes on the following:

P.T.O.

1. Exchange Traded Fund.
2. Right Issue.
(d) Consumer Finance.
(e) SEBI.
(f) Portfolio Management.
(a) Book Building.

Complex Question (20 marks)

Attempt all questions in all Question No. 1 is compulsory. All questions carry equal marks.

Note: Time allowed: 3 Hours
Maximum Marks: 80

PAPER-BBA-312

INTRODUCTION TO FINANCIAL SERVICES

BBA/M-22

Roll No.: 2

Total Pages: 2
8. Explain the types and importance of factoring.

8.8
(a) Debit card and credit card.
(b) Debit card and credit card.
(c) Banking and the purchase.

7. Differentiate between the following:

(a) Stock Brook
(b) Stock Broker
(c) Underwriting

6. Write notes on the following:

What are the different types of Financial Funds?

5. Discuss the process and importance of Credit Banking.

4. Explain the various activities of American Banking.

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