

Roll No.BCA.....5th Sem

Total Pages : 03

GSQ/D-24

1072

PROGRAMMING USING VISUAL BASIC

BCA-355

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. Answer the following questions in short : 16
- (a) What is Event Driven Programming Language ?
 - (b) What is the use of "for next" Statement ?
 - (c) What is form control in VB ?
 - (d) Define List box control
 - (e) Explain while wend statement
 - (f) How can we declare Multidimensional Arrays ?
 - (g) Explain Call by Reference method
 - (h) Dynamic Array.

Unit I

2. What is IDE ? Explain the components of Visual Basic Integrated Development Environment. 16

3. (a) Differentiate between Visual and Non-Visual Programming.
- (b) Explain VB as Object Based Language. 16

Unit II

4. What is forcing variable declaration ? How can we declare a variable ? Explain Scope and lifetime of variables. 16
5. Explain the following : 16
- (a) Named and Intrinsic Constants
 - (b) Relational operators
 - (c) Types of Variables
 - (d) Message Box and Input Box.

Unit III

6. What are decision statements in VB ? Explain select-case statement with the help of example. 16
7. Explain the following with suitable example : 16
- (a) Do loop
 - (b) Exit statement
 - (c) Array of Arrays.

Unit IV

8. (a) What is Procedure and how can we call procedure ? 8
- (b) How can we pass an array to function in VB ? 8
9. Write a program in VB to generate Fibonacci Series. 16

**BASICS OF DATA SCIENCE USING
EXCEL**

Paper-BCA : CC-M3 : B23-CAP-304

Time Allowed : 3 Hours]

[Maximum Marks : 50

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

Compulsory Question

1. Answer the following questions : 5×2=10

- (a) What is meant by Data science?
- (b) What types of File extensions may be used while importing or exporting a File in and from Excel?
- (c) What is meant by Descriptive statistics?
- (d) Define the mean of a Dataset.
- (e) What is the purpose of the VLOOKUP function in Excel?

UNIT-I

2. (a) How can you use basic functions such as sum, count and average in Excel? Explain using suitable examples.

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- (b) Explain the purpose and use of Sorting and Filtering in Excel using suitable examples. 5
3. What are the various Data types and Formats used in Excel? Explain in detail using suitable examples. 10

UNIT-II

4. Discuss the importance of Visualizing data using charts in Excel. How can you create and customize the charts in Excel? Explain in detail. 10
5. Provide a detailed explanation of Data cleaning techniques, including examples of how to handle missing values, remove duplicates, and correct errors in Excel? 10

UNIT-III

6. What is meant by Predictive models? Explain their purpose and use in detail. Also discuss the various predictive models used in Excel using suitable examples. 10
7. Find the t-test value for the following two sets of values : 7, 2, 9, 8 and 1, 2, 3, 4? Also discuss how it can be implemented in Excel? 10

UNIT-IV

8. Describe the various What-If Analysis tools in Excel using examples of how each tool can be applied in decision-making scenarios? 10
9. What is meant by Correlation and Regression? How these are calculated in Excel? Explain using suitable examples. 10

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1071

COMPUTER NETWORKS

BCA-354

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. Define the following terms : 8×2=16
- (a) Protocol
 - (b) Frame
 - (c) Packet
 - (d) Segment
 - (e) Flooding
 - (f) NIC
 - (g) Choke Packet
 - (h) Cable Modem.

Unit I

2. (a) Explain various design issues of layers in network architecture. 10
- (b) Why Network Architecture is organized in layers ? 6

3. Differentiate between the following :
- (a) Connection Oriented vs. Connection Less Services 6
 - (b) Client Server vs. Distributed Networking Models 4
 - (c) Hub vs. Switch vs. Router. 6

Unit II

4. Describe Modulation and its need. Explain various types of analog modulation techniques in detail. 16
5. (a) How Guided transmission media differs from unguided transmission media ? Which one of the two is most popular and why ? 10
- (b) Explain communication satellite media in detail. 6

Unit III

6. Write short notes on the following : 4×4=16
- (a) CRC
 - (b) Hamming code
 - (c) Bluetooth
 - (d) VLAN.
7. What do you mean by media access control protocols ? How many types of media access control protocols exists ? Explain any *one* of them in detail. 16

Unit IV

8. Explain Link State Routing in detail. Why LSR is better than DVR ? 16

9. (a) Define Congestion in computer network. Why congestion occurs ? What is the impact on computer network ? How the problem of congestion can be handled in data communication ? 5
- (b) Explain traffic shaping algorithms in detail. 11