Bachelor of Computer Applications 6ᵗʰ Semester

(2054)

E-COMMERCE

Paper : BCA-16-601

Time Allowed : Three Hours]   **[Maximum Marks : 65**

Note :—Attempt **ONE** question each from Sections A, B, C
and D. Section-E is compulsory. All questions carry
equal marks.

SECTION—A

1. What are the problems with the traditional business systems ?
Define E-commerce and discuss the operational and strategic
benefits of E-commerce.

2. What do you mean by Electronic Data Interchange (EDI) ?
What are the components of EDI ? Also explain the benefits
of EDI in brief.

SECTION—B

3. What is a Web-based business ? What is the need for a Web-
based business ? Explain the steps in the process of setting
up for business on Internet.

4. (a) What is banner advertisement ? How is the effectiveness of advertisement measured ?

   (b) Briefly explain Web traffic analysis.

SECTION—C

5. What are the various types of electronic payment systems ? Explain in detail the electronic purses.

6. Discuss the online third party verified payment system through credit and debit cards.

SECTION—D

7. Explain Mobile Commerce Framework in detail.

8. What is a Cybercrime ? What are the different types of cyber-crimes ? Explain in detail the provisions of IT Act, 2000 to deal with these crimes.

SECTION—E

9. Write short notes on the following :—

   (a) Types of E-commerce

   (b) Elements of a Webpage

   (c) Inter-bank clearing system

   (d) Cyber Forensics.   4+3+3+3

(i) **Printed Pages : 2**   Roll No. ....

(ii) **Questions   : 9**   Sub. Code : | 0 | 9 | 5 | 3 |

Exam. Code : | 0 | 0 | 3 | 2 |

Bachelor of Computer Applications 6th Semester

(2054)

APPLICATION DEVELOPMENT USING VB.NET

Paper—BCA-16-602

Time Allowed : Three Hours]   **[Maximum Marks : 65**

Note :— Attempt **five** questions in all, including Question
No. **1** which is compulsory and selecting **one** question from
each unit.

1. Attempt all the following :

    (a) What do you mean by hierarchy of operations ?

    (b) How type conversion is done in VB.NET ?

    (c) Define event driven programming.

    (d) What is the difference between slider control and spin
    control ?

    (e) Distinguish between data adaptor and data set.

    (f) How email address validation is done ?

    (g) What is a provider class ?   2+2+2+2+2+2+1

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UNIT—I

2. (a) What are the different components of .NET framework ? Explain. 7

    (b) Discuss in detail the features of CLR. 6

3. Discuss in detail the anatomy of .NET applications. 13

UNIT—II

4. What are the various parts of a Visual Basic .NET solution ? Explain. 13

5. Define event driven programming. Write the procedure of adding events and writing code for the events. 13

UNIT—III

6. What are the different validation controls available in ASP.NET ? Explain. 13

7. (a) How session objects are used in ASP.NET ? Explain. 7

    (b) How cookies are used ? Explain. 6

UNIT—IV

8. (a) Explain the architecture of ADO.NET. 7

    (b) How provider class is used ? Explain. 6

9. How data adaptors are used for data manipulation and navigation ? Explain. 13

Note :—Attempt **FIVE** questions in all, including Q. No. **9** in Section-E, which is compulsory, taking **ONE** each from Section-A to Section-D.

SECTION—A

1. What is Computer Graphics ? Explain the different applications of computer graphics in several fields. State any two graphics functions in graphics software.   13

2. What is Cathode Ray Tube (CRT) ? Explain the functioning of CRT with proper diagram. How is CRT different from LCD and LED ?   13

SECTION—B

3. What do you understand by computer-aided design (CAD) ? Highlight the salient features and major applications of CAD with suitable examples.   13

4. (a) Explain the following in the context of graphics programming in C :

   (i) Changing style of a line

   (ii) Displaying text in graphics mode.

   (b) Write a C-program to draw concentric circles for radius varying from 10 to 50 units with a step size of 5.

   7,6

SECTION—C

5. What is Multimedia ? Explain different components and characteristics of multimedia. Enumerate the stages of multimedia application development. 13

6. With the help of an illustration, explain the planning and design, Production and Distribution of a multimedia application. Elaborate the idea generation phase of multimedia project planning. 13

SECTION—D

7. List the characteristics of a good image authoring tool. Name any one popular multimedia-authoring tool and mention its salient features. 13

8. Explain the following :—

   (a) Audio file formats

   (b) Lossy and lossless image compression. 7,6

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SECTION—E

(Compulsory Question)

9. (a) What are the components of a Graphical User Interface (GUI) ? Explain.

(b) Explain any three construction commands in AutoCAD.

(c) Explain the difference between the terms multimedia systems and multimedia applications, with examples.

(d) Explain control panel in Macromedia Director.

4,3,3,3