

S. S. JAIN SUBODH P.G.(AUTONOMOUS) COLLEGE, JAIPUR

Affiliated to University of Rajasthan, Jaipur

I CIA BCA V Semester Test, Dec. - 2021

Computer Graphics

Max. Marks: 30

Duration: 1 Hour

Instructions to the Candidates

Note:- Section A : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two ($7.5 \times 2 = 15$ marks)

Section B : Consists of one descriptive question of 15 marks with an internal choice.

Section A

- (1) Describe RGB colour Model with suitable diagram.
- (2) Describe raster and random scan display.
- (3) Discuss Plasma Panel and LCD monitors with their working.

Section B

- (4) Explain major application areas of computer graphics.

OR

Explain the structure and working of CRT in detail.

S. S. JAIN SUBODH P.G.(AUTONOMOUS) COLLEGE, JAIPUR
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I CIA BCA V Semester Test, Dec. - 2021
Dot Net Technologies

Max. Marks: 30

Duration: 1 Hour

Instructions to the Candidates

Note:- Section A : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two ($7.5 \times 2 = 15$ marks)

Section B : Consists of one descriptive question of 15 marks with an internal choice.

Section A

1. Explain the .Net Framework with diagram.
2. Define CLR.
3. Write a program in C# which accepts a number from the user and identify whether the number is even or odd.

Section B

4. Explain namespaces and how to define namespace in C#.

OR

Write a program in C# which accepts a number from the user between 1 to 12 and display corresponding month name.

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I CIA BCA V Semester Test, Dec. - 2021
Software Engineering

Max. Marks: 30

Duration: 1 Hour

Instructions to the Candidates

Note:- Section A : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two ($7.5 \times 2 = 15$ marks)

Section B : Consists of one descriptive question of 15 marks with an internal choice.

Section A

1. What is Software? What are the characteristics of a software? 7.5
2. Explain Waterfall Model along with its advantages and disadvantages. 7.5
3. Write short note on: (2.5 * 3 = 7.5)
 - a) Software Components
 - b) Prototype Model
 - c) Project Management

Section B

4. Explain Spiral Model along with its advantages and disadvantages. 15

OR

What is SDLC? Describe all the phases of SDLC in Software Engineering.

15

Max. Marks: 30

Duration: 1 Hour

Instructions to the Candidates

Note:- **Section A** : Consists of three short answer type questions. each carrying 7.5 marks. The candidates are required to attempt any two ($7.5 \times 2 = 15$ marks)

Section B : Consists of one descriptive question of 15 marks with an internal choice.

Section A

1. Define E-Commerce. Explain its objectives.
2. Explain the scope of E-Commerce.
3. Write down the disadvantages of E-Commerce.

Section B

4. What are the advantages of E-Commerce? Explain in detail.

OR

Differentiate between Traditional Commerce and E-Commerce.

22/12/21

BCA Fifth Semester Examination, Feb. – 2022**SECOND PAPER****Dot Net Technology**

Paper Code:- 42502

Time Allowed: 1½ Hours**Maximum Marks : 70**

No supplementary answer book will be given to any candidate. Hence the candidates should write the answers precisely in the main answer book only.

PART- I

1. Attempt any 5 questions out of the following. Each question carries 2 marks.
(Words limit up to 20 words each)

5x2=10

- Define Dot Net Framework.
- Write the full form of BCL.
- What is the use of Class Library?
- List some applications that can be developed with C#.
- Define IIS.
- Explain the use of Link Button in C#.
- Write any two events related with Textbox in C#.
- Define Meta Data.
- Define Session State.
- Define Local Host.
- What is Data Adapter?
- Define SQL.

BASE

2. Attempt any 2 questions out of the following. Each question carries 10 marks.

2x10=20

(Words limit up to 50 words each)

- Explain the use of namespace in ASP.net.
- Explain Check Box Control in ASP.net with example.
- Explain the role of publishing of a project under deploying process in C#.
- Write a program in C# to check that a given number is even or odd.

Part-II

Attempt any 2 questions in all.

2X20=40

3. Write the note on the following with respect of .Net.

10+10

- Common Type System
- Microsoft Intermediate Language

P.T.O.

- ev
4. Explain why .Net applications are secured and portable. 20
 5. (a) Explain data types available in C# 10
(b) Write a program in c# to check that a given year is leap or not. 10
 6. (a) Explain properties and events of Calendar Control. 10
(b) Differentiate between Server Controls and HTML Controls. Also explain the function of Submit Button. 10
 7. Explain step by step process to create custom controls in ASP.Net. 20
 8. Explain following Controls: 10+10
(a) File Upload Control
(b) Regular Expression Validator
 9. Explain ADO.net architecture in detail with labelled diagram. 20
 10. Explain step by step process of OLEDB connection using C# with example. 20

Case -
depts.
and server -
web & Internet
XMR app

BCA Fifth Semester Examination, Feb. – 2022

THIRD PAPER

E-Commerce Application Development

Paper Code:- 42503

Time Allowed: 1½ Hours

Maximum Marks : 70

No supplementary answer book will be given to any candidate. Hence the candidates should write the answers precisely in the main answer book only.

PART- I

- 1. Attempt any 5 questions out of the following. Each question carries 2 marks.**
(Words limit up to 20 words each)

5x2=10

- What is MIME?
- Write any two forces driving E-Commerce.
- Write any two features of E-Cash.
- Define B2C Model.
- Define Smart Card.
- Define Electronic Fund Transfer.
- What is planning in an application?
- Define High – level Design.
- What is Validation?
- Explain Testing.
- Explain Technical Construction.
- Define SCM.

- 2. Attempt any 2 questions out of the following. Each question carries 10 marks.**
(Words limit up to 50 words each)

2x10=20

- Define E – Commerce. What are the advantages of E-Commerce to businesses as well as to customers?
- Discuss the advantages and disadvantages of EDI.
- Discuss detail design in E-commerce.
- Differentiate Verification and Validation.

Part-II

Attempt any 2 questions in all .

2X20=40

- 3. (a) Define the term Pure E-Commerce and Partial E-Commerce.**
(b) Discuss the limitations of E-Commerce.

10

10

P.T.O.

- | | |
|---|-------|
| 4. (a) Discuss scope of E-Commerce. | 10 |
| (b) Discuss various types of E-Commerce. | 10 |
| | 8+6+6 |
| 5. Write short note on:
a) Payment Gateways
b) EDI standards
c) E-Catalogues | |
| 6. What is E-Payment System? Explain various types of E-payment methods. | 20 |
| 7. What are the advantages of High-level Design? Explain with suitable example. | 20 |
| 8. How to choose a best design for an E-Commerce application development. | 20 |
| 9. What is Planning? Why planning is important as first step in E-Commerce application development? | 20 |
| 10. What is Testing? Explain various types of testing with suitable example. | 20 |
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B.C.A. (Sem. V)

BCA Fifth Semester Examination, Feb. 2022**FOURTH PAPER****Software Engineering**

Paper Code:-42504

*Informadok***Time Allowed: 1½ Hours****Maximum Marks : 70**

No supplementary answer book will be given to any candidate. Hence the candidates should write the answers precisely in the main answer book only.

PART- I

1. Attempt any 5 questions out of the following. Each question carries 2 marks.
(Words limit up to 20 words each)

5x2=10

- What is Meta Data?
- What is full form of SDLC?
- What is Software Metric?
- Which model performed "Risk Analysis"?
- What are functional and non-functional requirements?
- What is Feasibility Study?
- What are Software requirements?
- What is full form of COCOMO?
- What is meant by level O data flow diagram?
- What are Function Points?
- Which are the software project estimation techniques available?
- What do you mean by "Validation"?

2. Attempt any 2 questions out of the following. Each question carries 10 marks.
(Words limit up to 50 words each)

2x10=20

- What are the advantages of Incremental Model?
- Define Software Process. State the important features of process.
- Write down the differences between Verification and validation.
- What are the common characteristics of design methods?

Part-II**Attempt any 2 questions in all .****2X20=40**

3. Explain Waterfall Model. What are the problems that are sometimes encountered when waterfall model is applied?

4+16**P.T.O**

4. Describe two metrics which are used to measure the software in detail. Discuss clearly the advantages and disadvantages of these metrics. 8+12
5. What is Project Planning? What are the different activities / phases in project planning? 4+16
6. Explain Constructive Cost Model in detail. Also explain the types of COCOMO Model. 8+12
7. Write short note on : 5x4
- (a) Cohesion
 - (b) Coupling
 - (c) SCM Process
 - (d) SCM Repository
 - (e) User Interface Design Process
8. Explain data architectural and procedural design for a software. 20
9. Explain about System Testing. What is the necessity of unit testing? Write down all unit test consideration. 4+8+8 -
10. What do you mean by Boundary Value Analysis? Give two examples of boundary value testing. 12+8
