Tamil Nadu Open University

School of Computer Science
Chennai – 15

Programme Code No   : 171
Programme Name   : Bachelor of Computer Applications
Course Code & Name   : BCA-07 & Windows Programming
Batch   : CY 2019 (2nd Year)
No. of Assignment   : One Assignment for Each 2 Credits
Maximum CIA marks   : 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1   Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. What are the components present in the properties window and explain.
2. Explain the keyboard and mouse events with illustration.
3. Write a note on the following :
   - (a) Error Objects
   - (b) Creating EXE files.
   - (c) On Goto statement.

ASSIGNMENT – 2   Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Discuss the steps to access an external database with data control.
2. Explain with neat diagram IDE in VB.
3. Explain about different data types in VB.

ASSIGNMENT – 3   Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. With suitable program, explain FOR and DO loops in detail.
2. What are the numeric and string functions? Explain in detail.
3. Explain the elements of visual basic integrated development environment.

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Programme Code No   : 171
Programme Name   : Bachelor of Computer Applications
Course Code & Name   : BCA-08 & Multimedia
Batch   : CY 2019 (2nd Year)
No.of Assignment   : One Assignment for Each 2 Credits
Maximum CIA marks   : 25 (Average of Total No. of   Assignments)

ASSIGNMENT – 1   Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Explain Software requirements for Multimedia in detail.

2. Justify how Multimedia useful in Publishing Industry.

3. Explain various multimedia components in detail

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Explain in detail about the audio side of multimedia.

2. Discuss the steps involved in planning for Creation of Multimedia building blocks.

3. With illustration, explain the usage of hypertext in detail.

ASSIGNMENT – 3

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Explain about the hardware for Multimedia in details.

2. Discuss about the Multimedia in Business

3. Justify how multimedia useful in business.

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Programme Code No   : 171
Programme Name   : Bachelor of Computer Applications
Course Code & Name   : BCA-09 & Relational Data Base Management System
Batch   : CY 2019 (2nd Year)
No.of Assignment   : One Assignment for Each 2 Credits
Maximum CIA marks : 25 (Average of Total No. of   Assignments)

Max : 25 marks

ASSIGNMENT - 1

Answer any one of the question not exceeding 1000 words

1. Discuss the steps involved in adding, deleting the fields in a table.

2. Explain Filter and Sorting records in Access.

3. Illustrate First Normal Form and Second Normal Form in detail.

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Explain the following SQL Statements:

   (a) SELECT (b) UPDATE (c) DELETE (d) GRANT (e) CREATE.

2. Explain with example filter and sorting records in detail.

3. List out SQL commands related to security and explain in detail.

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Programme Code No : 171
Programme Name : Bachelor of Computer Applications
Course Code & Name : BCA-10 & Computer Network
Batch : CY 2019 (2nd Year)
No.of Assignment : One Assignment for Each 2 Credits
Maximum CIA marks : 25 (Average of Total No. of Assignments)

Max : 25 marks
ASSIGNMENT - 1

Answer any one of the question not exceeding 1000 words

1. What is Broadband ISDN? Explain in detail.

2. What are the transmission modes? Explain in detail.

3. Explain Twisted Pair and Coaxial cable in detail.

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Discuss the working principle of Bridges in detail.

2. Explain in detail about E-mail system.

3. Explain any one routing algorithm with suitable example.

ASSIGNMENT – 3

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Explain ALOHA Protocols in detail
2. Explain the following :
   (a) Repeaters
   (b) Switches.
3. Explain the working principle of Repeaters in detail.

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Programme Code No : 171
Programme Name : Bachelor of Computer Applications
Course Code & Name : BCA-11 & Introduction to Software Engineering
Batch : CY 2019 (2nd Year)
No.of Assignment : One Assignment for Each 2 Credits
Maximum CIA marks : 25 (Average of Total No. of Assignments)

Max : 25 marks

ASSIGNMENT - 1

Answer any one of the question not exceeding 1000 words

1. What is Software prototyping? Explain in detail.

2. What is validation? Explain with example. Explain about Project Tracking?

3. What is Risk Management? Write its significance.

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Explain White Box test and Block box testing in detail.

2. What is Test Case? How do you design it?

3. Explain the steps involved in Quality Assurance Activities in detail.

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Programme Code No   : 171
Programme Name   : Bachelor of Computer Applications
Course Code & Name : BCA-12 & Computer Oriented Numerical Methods
Batch   : CY 2019 (2nd Year)
No.of Assignment   : One Assignment for Each 2 Credits
Maximum CIA marks : 25 (Average of Total No. of   Assignments)

ASSIGNMENT – 1   Max : 25 marks

Answer any one of the question not exceeding 1000 words
1. If $f(3) = 5$ and $f(5) = 3$, what is the form of $f(x)$ by Lagrange's Formula?
2. Form the difference table for the following data.

x	50°	51°	52°	53°
$y = \cos x$	0.6428	0.6293	0.6157	0.6018

3. Write the Lagrange's interpolation formula and its uses.

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Find the value of x when $y = 85$, using Lagrange's formula from the following table.

x	2	5	8	14
y	94.8	87.9	81.3	68.7

2. A function $f(x)$ is given by the following table. Using Newton's Forward Interpolation formula, find y, $x = 43$.

x	40	50	60	70	80	90
y	184	204	226	250	276	304

3. Find $y(0.1)$ given $y'' = y^3, y(0) = 10, y'(0) = 5$ by R.K. method.

ASSIGNMENT – 3

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Describe any one Iterative method of solving systems of simultaneous linear equations.

2. Find the positive root of the equation $x - \cos x = 0$ correct to 2 places of decimal by bisection method.

3. Explain the differences between Direct and Indirect methods of solving system of equations.