



Tamil Nadu Open University
School of Computer Science
Chennai – 15
HOME / SPOT ASSIGNMENT

Programme Code No	: 171
Programme Name	: Bachelor of Computer Applications
Course Code & Name	: BCAS-11 & Problem Solving Techniques
Batch	: AY-2021-2022(1 st year)-Semester 1
No. of Assignment	: 2
Maximum Marks	: 15

ASSIGNMENT-1

Max: 15 Marks

Answer any **ONE** of the following three questions in 1000 words

1. Explain Empty Box Problem in detail.
2. Write Goat Cabbage Wolf Problem in detail.
3. Briefly explain Conditional Statements.

ASSIGNMENT-2

Max: 15 Marks

Answer any **ONE** of the following three questions in 1000 words

1. Explain Equivalence And Continued Equalities.
2. Summarize Triomino Problem in detail.
3. Write detailed notes on Tower of Hanoi Problem.



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Programme Code No	: 171
Programme Name	: Bachelor of Computer Applications
Course Code & Name	: BCAS-12 & Information Technology Essentials
Batch	: AY-2021-2022(1 st year)-Semester 1
No. of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 15

ASSIGNMENT-1

Max: 15 Marks

Answer any **ONE** of the following three questions in 1000 words

1. Explain Generation of Computers in detail.
2. Write Various Classes of Software in detail.
3. Briefly explain Different Types of Software.

ASSIGNMENT-2

Max: 15 Marks

Answer any **ONE** of the following three questions in 1000 words

4. Explain Types of Operating System.
5. Summarize Functions of Operating System.
6. Write detailed notes on Types of Topology.



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Programme Code No : 171
Programme Name : Bachelor of Computer Applications
Course Code & Name : BMSSA-11 & Mathematics-I
Batch : AY-2021-2022(1st year)-Semester1
No. of Assignments : 2
Maximum Marks : 15

ASSIGNMENT -1

Max: 15 Marks

Answer any **ONE** of the following three questions.

1. Find the eigen values of the matrix $A = \begin{bmatrix} 2 & 2 & 0 \\ 2 & 1 & 1 \\ -7 & 2 & -3 \end{bmatrix}$
2. Find the n^{th} differential coefficient of $\frac{x^2}{(x+1)^2(x+2)}$
3. Prove that $\int_2^3 \sqrt{(x-2)(3-x)} dx = \frac{\pi}{8}$

ASSIGNMENT -2

Max: 15 Marks

Answer any **ONE** of the following three questions.

1. Diagonalize the matrix by suitable transformation.

$$A = \begin{bmatrix} 1 & 1 & 3 \\ 1 & 5 & 1 \\ 3 & 1 & 1 \end{bmatrix}$$

2. If $\cos^{-1}\left(\frac{y}{n}\right) = \log\left(\frac{x}{b}\right)^n$ prove that

$$x^2 y_{n+2} + (2n+1)xy_{n+1} + 2n^2 y_n = 0$$

3. Solve $q = px + p^2$.



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Programme Code No	: 171
Programme Name	: Bachelor of Computer Applications
Course Code & Name	: BCAS-21 & Programming in C
Batch	: AY-2021-2022(1 st year)-Semester2
No. of Assignment	: 2
Maximum Marks	: 15

ASSIGNMENT-1

Max: 15 Marks

Answer any **ONE** of the following three questions in 1000 words

1. Explain Operators and types in detail.
2. Write Decision Making in detail.
3. Briefly explain The Switch Statement.

ASSIGNMENT-2

Max: 15 Marks

Answer any **ONE** of the following three questions in 1000 words

1. Explain Function Prototypes.
2. Summarize External Variable.
3. Write detailed notes on One –Dimensional Array.



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Programme Code No	: 171
Programme Name	: Bachelor of Computer Applications
Course Code & Name	: BCAS-22 & Open Source Technology
Batch	: AY-2021-2022(1 st year)-Semester2
No. of Assignment	: 2
Maximum Marks	: 15

ASSIGNMENT-1

Max: 15 Marks

Answer any **ONE** of the following three questions in 1000 words

1. Explain difference between Open-Source Software vs Free Software.
2. Write the characteristics of development model.
3. Summarize Disadvantage of WAMP Server.

ASSIGNMENT-2

Max: 15 Marks

Answer any **ONE** of the following three questions in 1000 words

1. Explain the Ethics of Open Source.
2. Summarize Java platform
3. Write detailed notes on economics of FOSS.



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Programme Code No	: 171
Programme Name	: Bachelor of Computer Applications
Course Code & Name	: BCAS-23 & Digital Logic
Batch	: AY-2021-2022(1 st year)-Semester 2
No. of Assignment	: 2
Maximum Marks	: 15

ASSIGNMENT-1

Max: 15 Marks

Answer any **ONE** of the following three questions in 1000 words

4. Explain Decimal Number System.
5. Write Parity Code in detail.
6. Briefly explain Sequential Logic Circuit.

ASSIGNMENT-2

Max: 15 Marks

Answer any **ONE** of the following three questions in 1000 words

4. Explain Truth tables.
5. Summarize Karnaugh map method
6. Write detailed notes on binary to BCD code convetor.