KRISHNA KANTA HANDIQUI STATE OPEN UNIVERSITY

Hiranya Chandra Bhuyan School of Science and Technology

Home Assignment

Bachelor of Computer Applications (BCA)

5th Semester, 2025

Linux System Administration

Course Code: GCA S5 01

- The Home Assignment should be hand written in your own language only.
- Copying in total from the Self Learning Material or from others shall result in deduction of marks.
- The completed Home Assignment is to be submitted at your respective Study Centres only
- The last date of submission of the Home Assignment is **31st March 2025.**

All questions carry 10 marks each: **[10×5=50]**

Q1. Explain the architecture and functions of linux kernel.

Q2. What is an IP address? What are its classes and ranges?

Q3. What are the different types of Bourne shell? Write a program using shell script to find the factorial of a number.

Q4. Give the syntax and use of the following linux commands:

cat, grep, ls, chmod, wc

Q5. What are renewable and non-renewable resources? Explain their importance in environmental sustainability.

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Home Assignment
Bachelor of Computer Applications (BCA)
5th Semester, 2025
Web Technology
Course Code: GCA S5 02

- The Home Assignment should be written in your own language only.
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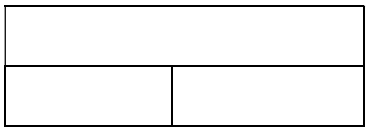
All questions carry 10 marks each: **[10×5=50]**

Q1. Describe the different types of data types in PHP with examples.

Q2. Discuss some commonly used web servers.

Q3. How to define and call a function in JavaScript? Write a JavaScript program to replace a character at the specified position of a given string with "Z" and return the new string.

Q4. What are the different types of CSS positioning? Write HTML frame code to divide the webpage in the following format:



Q5. Discuss the role of biodiversity in maintaining ecological balance. What are the major threats to biodiversity?

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Home Assignment
Bachelor of Computer Applications (BCA)
5th Semester, 2025

Computer Graphics

Course Code: GCA S5 03

- The Home Assignment should be written in your own language only.
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All questions carry 10 marks each: **[10×5=50]**

Q1. Explain window-to-viewport transformation.

Q2. Discuss any five principles of animation.

Q3. Compare the DDA algorithm and the Bresenham's line drawing algorithm.

Q4. Describe the different types of projections.

Q5. What are environmental laws and policies? Discuss their role in environmental protection with examples.

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Hiranya Chandra Bhuyan School of Science and Technology

Home Assignment
Bachelor of Computer Applications (BCA)
5th Semester, 2025

Data Warehousing and Data Mining

Course Code: GCA S5 04A

- The Home Assignment should be written in your own language only.
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All questions carry 10 marks each: **[10×5=50]**

Q1. Explain the different phases of data processing.

Q2.What are the different ways to evaluate the performance of a model? Explain in brief the three categories of web data mining.

Q3. Describe the different types of OLAP operations.

Q4. What is Decision Tree? Explain the concept using an example. List all the different decision tree building algorithms.

Q5. Discuss the impact of deforestation on the environment and suggest measures to prevent it.

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N.B. The learners will have to collect receipt after submitting the assignment with the signature and seal of the collector of study centre and will have to keep with him/her till the declaration of result.

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Receipt

Received the assignment from Mr/Ms…….…….

Enrollment number……of **BCA 5th semester** on…….....

Date: Signature of collector with seal: