



Tribhuvan University
Faculty of Humanities & Social Sciences
OFFICE OF THE DEAN
2021

Bachelor in Computer Applications
Course Title: Computer Fundamentals & Applications
Code No: CACS 101
Semester: I

Full Marks: 60
Pass Marks: 24
Time: 3 hours

Candidates are required to answer the questions in their own words as far as possible.

Group B

Attempt any SIX questions.

[6×5 = 30]

2. What is computer interface? Describe a mainframe computer's essential feature. **[1+4]**
3. What kinds of programs fall under the utility category? Describe a utility program you have on your computer. **[1+4]**
4. What role does the operating system play in managing resources? Give an example to illustrate. **[3+2]**
5. Who supervises the databases in the organization? What tasks and obligations are under the scope of the database administrator. **[1+4]**
6. Using a suitable example, describe how a network might lower office overhead. **[5]**
7. Write down characteristics and applications of laser printer. **[5]**
8. How would you describe web architecture? Give an illustration of how data flows in a web architecture.

Group C

Attempt any TWO questions.

[2×10 = 20]

9. a) What is a softcopy device? Explain the working mechanism and applications of the OMR. **[1+4]**
b) Write DOS Commands to perform following task: **[5]**
 - i) To create the TU directory at the current prompt.
 - ii) To display the tree view structure of the files and folders included within the TU directory.
 - iii) To remove the BCA and MCA (non-empty folders) from the current prompt.
 - iv) To locate the IP address of your computer in the network.
 - v) To discover the presence of a remote device on the network.
10. a) What is ambient reality? How it differs from augmented reality? **[2+3]**
b) Why is the Healing Brush Tool useful? Describe how to use Photoshop to create your ID-Card.
11. a) "An essential software component of a computer system is the operating system". What fundamental capabilities are offered to a user by an operating system? **[5]**
b) What does the phrase "interactive multimedia" mean? Describe the components of multimedia. **[2+3]**