Tribhuvan University
Faculty of Humanities & Social Sciences
OFFICE OF THE DEAN
2025

Bachelor in Computer Applications
Course Title: Computer Fundamentals and Applications
Code No: CACS101
Semester: I

Full Marks: 60
Pass Marks: 24
Time: 3 hours
Batch: 2024

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. Explain the fundamental components of a computer system and their functions.   [5]
3. Define computer memory. Explain memory hierarchy.   [1+4]
4. What is computer software? Differentiate between a program and software.   [1+4]
5. What is an Operating System (OS)? Explain different types of OS and give examples of Open-Source OS. [1+3+1]
6. What is a Database? Explain its main functions and types with examples.   [1+3+1]
7. What is browsing? What is meant by home page of a website? Explain any three Internet protocols. [1+1+3]
8. Write short notes on (**Any Two**):   [2.5 + 2.5]
   a) Multimedia Vs Hypermedia   b) GUI Vs CUI   c) Text Formatting Vs Paragraph Formatting

Group C

Attempt any TWO questions.   [2×10 = 20]

9. Why computer networks play a vital role in the 21st century? Explain the role of different transmission media in the network design. Describe the functionalities of various network devices.   [2+2+6]

10. a) Write function and perform following calculation in MS-Excel. [5]

Places	Target	Production	Achievement (%)	Grade
Dolakha	4800	6000	?	?
Lalitpur	5000	4500	?	?
Mustang	5000	5000	?	?
Average			?	

   i) Calculates Achievement in percentage.   [1]
   ii) Calculate failure or achievement in average percentage.   [1]
   iii) Calculate grade A+ for more than 100% achievement; A for 100% achievement; B for below 100% achievement.   [3]
   b) Explain the following DOS commands with syntax.   [5]
   i) How do you protect files in DOS?
   ii) What is the difference between RD and DEL commands?
   iii) How can you copy a file from one directory to another in DOS?
   iv) What is the use of TREE and LABEL commands?
   v) How do you display the contents of a text file without opening it?

11. a) Difference between adobe ImageReady and Photoshop. What are the different selection tools available in PS?   [2+3]
   a) What is PowerPoint? What is its purpose? Differentiate between Slide Sorter view and Slide show view of PowerPoint.   [1+1+3]