Tribhuvan University

Faculty of Humanities & Social Sciences

OFFICE OF THE DEAN

2020

**Bachelor in Computer Applications Full Marks: 60**

**Course Title: Computer Fundamentals & Applications Pass Marks: 24**

**Code No: CACS 101 Time: 3 hours**

**Semester: 1st**

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

**Group B**

# Attempt any SIX questions. [65 = 30]

1. Who is database administrator? Explain the major roles and responsivities of DBA. [1+4]
2. Define operating system? Explain the open-source operating system. [1+4]
3. What is ergonomic keyboard? Explain working mechanism of keyboard. [1+4]
4. Explain different types of computer on the basis of size and power. [5]
5. What is DBMS? Explain Relational database model with suitable diagram. [1+4]
6. Prepare a specification of personal computer which you want to purchase. [5]
7. Explain any five DOS command with suitable example.

# Group C

**Attempt any TWO questions. [2****10 = 20]**

1. Prepare the spreadsheet:

ABC Company Kathmandu

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G | H | I | J | H | G | H |
| 1 | SN | Name | CFA | Logic | Math | So\_Tech | English | Total | Per | Result | Grade | Rank | Remarks |
| 2 | 1 | Ram | 45 | 56 | 54 | 44 | 45 | ? | ? | ? | ? | ? | ? |
| 3 | 2 | Sham | 50 | 45 | 53 | 45 | 45 | ? | ? | ? | ? | ? | ? |
| 4 | 3 | Hari | 46 | 44 | 45 | 46 | 45 | ? | ? | ? | ? | ? | ? |

Conditions:

1. Write appropriate formula to find the total marks of each students. [1]
2. Write a formula to find out the percentage of each student. [1]
3. Result is passed is student score at least 40% narks in each subject. [1]
4. Write a formula to calculate grade of student based on percentage.

(A for >=90, B for >=80, C for >=70, D for >=60, E for >=40)

1. Write a formula to find rank of individual student whi has passed result. [1]

Write a remarks base on following conditions:

(“Excellent” for A grade, “Good” for B grade, “Fair” for C grade, “Moderate” for D grade, “Satisfactory” for E grade)

1. a) what is mail merge? Explain the major functions available in the Review tab of word document. [1+4]

b) what is Photoshop? Write the steps to create MRP sized photograph in JPEG format. [1+4]

1. Define Computer Network? Explain OSI model in detail. [2+8]