Tribhuvan University

Faculty of Humanities & Social Sciences
OFFICE OF THE DEAN
2020

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. Who is database administrator? Explain the major roles and responsivities of DBA.   [1+4]

3. Define operating system? Explain the open-source operating system.   [1+4]

4. What is ergonomic keyboard? Explain working mechanism of keyboard.   [1+5]

5. Explain different types of computer on the basis of size and power.   [5]

6. What is DBMS? Explain Relational database model with suitable diagram.   [1+4]

7. Prepare a specification of personal computer which you want to purchase.   [5]

8. Explain any five DOS command with suitable example.

Group C

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

9. Prepare following spreadsheet:

ABC Campus
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:
a) Write appropriate formula to find the total marks of each students.   [1]
b) Write formula to find out the percentage of each student   [1]
c) Result is passed if student score at least 40% marks in each subject.   [2]
d) 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)   [3]
e) Write a formula to find rank of individual student who has passed result.   [1]
   Write a remarks base on following conditions: [2]
   ("Excellent" for A grade, "Good" for B, "Fair" for C, "Moderate" for D and "Satisfactory" for E)

10. 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]

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