

BCAians Nepal

*Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.*

GROUP B

Attempt any SIX Questions: **[6X5=30]**

11. What do you mean by Computer Architecture? Describe the functional components of computer architecture with block diagram.
12. Define Software. List and explain the types of Software.
13. What is memory? What is the unit of memory representation in a computer?
14. Differentiate between SRAM and DRAM.
15. Define DBMS. Explain the different database models with their merits and demerits.
16. What is Antivirus? What are the functions of Antivirus?
17. Define Computer Network. Explain the different types LAN topologies with their advantages and disadvantages.

Group C

Attempt any TWO Questions: **[2X10=20]**

18.
 - a. You are provided following data:

	A	B	C	D	E	F	G	H	I	J
1	Name	English	Nepali	Education	Math	Computer	Total	Percentage	Result	Division
2	Sarita	67	45	65	76	66				
3	Gita	78	34	64	67	76				
4	Shyam	87	56	67	65	61				
5	Ram	76	64	56	72	82				
6	Bindu	79	46	63	58	56				

Write the formula in spread sheet package to solve the following problems:

- a) Calculate Total marks [1]
- b) Calculate Percentage [1]
- c) Mark the student with either "PASS" or "FAIL" [Pass mark 35] [1.5]
- d) Calculate the division [if percentage ≥ 60 then First, if percentage ≥ 45 and percentage < 60 then Second, if percentage ≥ 35 and percentage < 45 then Third otherwise "xxx"] [1.5]

b. Explain the features of Font control dialog box in word processing package. [5]

19. Write down the importance of OSI model? Explain all the layers of OSI.

20. Describe computer virus. Illustrate the types of computer virus.