BCAians Nepal

Group A

Attempt any six questions: [6×5=30]

1. Explain the characteristics of computer. **[5]**

2. What is proxy server? Explain its advantages in an organization. **[5]**

3. What is database model? List the different database model and explain any two of them. **[5]**

4. What is e-learning? List the tools used in e-learning. Explain merit and demerits of e-learning. **[5]**

5. What is transmission medium? Explain different types of bounded transmission media used in communication. **[5]**

6. What is operating system? Explain types of operating system with examples. **[1+4]**

7. Write the DOS command to complete the following tasks: **[5]**

   a. Create sub directory BCA, BBM, BBA inside e:\TU

   b. Create the file name "info.txt" inside BCA with content " BCA is under Humanities Faculty"

   c. Rename the file "info.txt" to "bcaprogram.txt".

   d. Hide the file "bcaprogram.txt"

   e. Format the pen drive which has drive letter **g:** in your computer

Group B

Attempt any two questions [2×10=20]

8. i. Provided the following data:

NCCS college
Mark-ledger

	B	C	D	E	F	G	H	I	J	K
1	Name	English	Sociology	CFA	DL	Math	Total	percentage	Result	Division
2	Arun	74	37	65	76	89				
3	Bikesh	78	65	45	78	76				
4	Chandra	67	34	67	65	56				
5	Hari	76	46	55	45	66				

   a. Calculate total marks **[1]**

   b. Calculate percentage **[1]**

   c. Calculate result "PASS" or "FAIL" (Pass mark>=40) **[1.5]**

   d. Calculate division [if result is pass and percentage>=80 then Distinction, if percentage<80 and percentage >=60 then First, if percentage<60 and percentage >=50 then Second and percentage<50 then THIRD otherwise "----"] **[1.5]**

ii. Explain the feature of Review tab in MS word. **[5]**

9. a. What is the role of output devices? Differentiate between softcopy and hardcopy output. **[5]**

   b. What is presentation package? List the features of presentation package. **[5]**

10. What is RGB? Discuss the different transformation on image in Photoshop. Explain selection tools in Photoshop. **[2+8]**

Group A

Attempt any six questions: [6×5=30]

1. What is AI? Explain the uses of AI. **[5]**
2. What is DBMS? Discuss the advantages of DBMS approach over file processing of data. **[1+4]**
3. What is operating system? Explain function of an OS. **[5]**
4. Explain different types of computer network based on size. **[5]**
5. What is e-commerce? Discuss its advantages and disadvantages. **[1+4]**
6. With reference to block diagram, explain the function of different component of computer. **[1+4]**
7. Write the DOS command to complete the following tasks: **[5]**

   a. Create sub directory BHM, BCA, CSIT inside e:\NCCS
   b. Create the file name "college.txt" inside CSIT with content "Welcome to CSIT"
   c. Rename the file "college.txt" to "bestcollege.txt".
   d. Set the attribute read only to file "mycollege.txt"
   e. Format the pen drive which has drive letter **e**: in your computer

Group B

Attempt any two questions [2×10=20]

8. **i**. Given the S.N., Name, telephone number, total call of five customers.

	C	D	E	F	G	H	I	J	K
					Excess call	Initial bill amount	Service charge		Final bill amount
1	S.N.	Name	Tel No.	Total call				VAT	
2	1	Aman	1433987	245					
3	2	Bibek	1555555	564					
4	3	Hari	1455678	145					
5	4	Sita	1433556	200					
6	5	Gita	1476543	56					

   a. Calculate Excess call. [minimum call= 175 and above 200 is excess call] **[1]**
   b. Calculate initial bill amount. [Minimum charge 200 + charge of excess call. Charge for excess call is Rs. 1/excess call] **[1]**
   c. Calculate service charge.[10% of initial amount] **[1]**
   d. Calculate VAT [13% of sum of initial amount and service charge] **[1]**
   e. Calculate final bill amount. **[1]**

   ii. What is memory? Differentiate primary memory and secondary storage. **[5]**

9.
   i. What is application software? Explain its type with suitable example. **[5]**
   ii. Explain the feature of font control tab in MS-WORD. **[5]**

10. What is CMYK? Discuss the different transformation on image in Photoshop. Explain marquee tools in Photoshop. **[10]**