

**Model Question**  
**Bachelor of Computer Applications (BCA)**

**Year / Semester: First / I**

**Subject: Computer Fundamentals and Applications (CACCS101)**

**Time: 3 Hrs.** (Group A, 20 Minutes and Group B & C, 2:40 Hrs.)

**FM: 60**

**Group – A**

**Attempt all the questions**

**[10 x 1]**

**Circle (○) the correct answer in the following questions.**

1. Which one of the following is not the characteristics of Computer?
  - a) Diligence
  - b) Versatile
  - c) Intelligence
  - d) Reliable
2. Which one of the following is the utility software?
  - a) Skype
  - b) Windows Defender
  - c) MS – Paint
  - d) Adobe Photoshop
3. Which one of the following is not the type of Operating System?
  - a) Hierarchical
  - b) Network
  - c) Batch
  - d) Multiprogramming
4. Which one of the following is not the attribute of an information?
  - a) Accuracy
  - b) Redundancy
  - c) Relevancy
  - d) Timeliness
5. Which one of the following does not belongs to OSI reference model?
  - a) Network Administrator
  - b) Internet Protocol (IP)
  - c) Datalink Layer
  - d) Data Presentation
6. Who invented WWW?
  - a) Sundar Pichai
  - b) Tim Berners-Lee
  - c) Bill Gates
  - d) Steve Jobs
7. Which one of the following is cryptocurrency?
  - a) Payment Gateway
  - b) PayPal
  - c) Dollar
  - d) Bitcoin
8. Which one of the following belongs to LMS?
  - a) e-Commerce
  - b) e-Governance
  - c) e-Banking
  - d) e-Learning
9. Which one of the following is the characteristics of DOS?
  - a) 32 – bit Operating System
  - b) 16 – Operating System
  - c) Server Operating System
  - d) WIMP
10. Which one of the following is not the graphical File Format?
  - a) PNG
  - b) BMP
  - c) TIFF
  - d) PPT

## Group – B

Attempt any SIX questions.

[6 x 5 = 30]

1. What do you mean by Computer Architecture? Describe the functional components of computer architecture with block diagram.
2. Define Operating System. Explain the types of operating system with their examples.
3. Define DBMS. Explain the different database models with their merits and demerits.
4. Define Computer Network. Explain the different types LAN topologies with their advantages and disadvantages.
5. What is WWW? Differentiate between intranet, extranet and internet.
6. What is e-Commerce? Explain its role to enhance the country's economy.
7. Write the DOS commands to complete following tasks:
  - a) Create sub directory BCA, BIM, BSC inside d:\TU
  - b) Create the file name *bcainfo.txt* inside BCA having the content, "BCA is professional degree".
  - c) Rename the file name *bcainfo.txt* with *myinfo.txt*.
  - d) Make hidden the file *myinfo.txt*
  - e) Format the pen drive which is installed as g:\ in your computer.

## Group – C

Attempt any TWO questions.

[2 x 10 = 20]

1.
  - i) You are provided following data:

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Hetauda  
Mark - ledger

	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  $\geq 60$  then First, if percentage  $\geq 45$  and percentage  $< 60$  then Second, if percentage  $\geq 35$  and percentage  $< 45$  then Third otherwise "xxx"] [1.5]
- ii) Explain the features of Font control dialog box in word processing package. [5]
2.
    - i) What is Memory hierarchy? Explain the types of memory. [5]
    - ii) What do you mean by presentation package? Write the basic elements of PowerPoint Window. [5]
  3. Define RGB color model. Explain the basic tools and transforms available in Adobe Photoshop. [2 + 5 + 3]