

# BCAians Nepal

*Candidates are required to answer all the questions in their own words as far as practicable.*

## Group “A”

Attempt all the questions

[10 x 1]

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

1. To cut down the size of the entire graphic design, including all layers, you should select the \_\_\_\_\_ tool.  
(a) marquee (b) magic wand (c) eraser (d) crop
2. Which enables us to send the same letter to different persons?  
(a) Macros (b) template (c) mail merge (d) none of the above
3. Want your logo in the same position on every slide, automatically? Insert it on the  
(a) Handout master (b) Notes master (c) Slide master (d) All of the above
4. A user can get files from another computer on the internet by using  
(a) HTTP (b) TELNET (c) UTP (d) FTP
5. Router operates in which layer of OSI Reference Model?  
(a) Layer 1 (Physical Layer) (b) Layer 3 (Network Layer)  
(c) Layer 4 (Transport Layer) (d) Layer 7 (Application Layer)
6. Which of the following is a Data Model?  
(a) Entity-Relationship model (b) Relational data model  
(c) Object-Based data model (d) All of the above
7. Which of the following Operating System does not implement multitasking truly?  
(a) Windows 10 (b) Windows 7  
(c) Windows XP (d) MS DOS
8. Computer virus is simply a  
(a) Disease (b) set of computer instructions or code  
(c) type of bacteria (d) hardware component
9. \_\_\_\_\_ are devices that convert electrical energy into light.  
(a) Emissive Displays (b) Non-Emissive Displays  
(c) Both (A) and (B) (d) None of the Above
10. Which of the following electronic component was made out of semiconductor material?  
(a) Vacuum tubes (b) Transistors  
(c) ICs (d) All of above

### Group “B”

Attempt any **SIX** questions.

[6 x 5 = 30]

11. How do you define software? Explain symptoms of computer virus. [1+4]
12. What is Open Source Software? Explain the functions of Operating System [1+4]
13. What is cache memory? Explain working mechanism of cache memory [2+3]
14. Who is Database Administrator? Briefly explain the responsibilities of DBA. [1+4]
15. Write down the quality factors of printer while purchasing a printer. [5]
16. What do you mean by the term “bitcoin” and “bitcoin mining”? Differentiate between virtual and augmented reality. [2+3]
17. Consider the following structure and answer the following questions. (F:/> is current prompt)

```
F:\CAMPUS
├── Account
│   └── employee
├── Exam
│   └── Examform.txt
└── Library
    └── book
        └── computer.txt
```

- a) Write down DOS command to create above files and directories. [2]
- b) Write down DOS command to hide file examform.txt from exam directory [1].
- c) Write DOS command to delete ‘employee’ directory and ‘computer.txt’ file. [1]
- d) Copy Examform.txt file into book directory. [1]

### Group “C”

Attempt any **TWO** questions

[2X10=20]

- 18.(a) From the following spreadsheet, write the formula to address the following conditions:

XYZ Company  
Kathmandu

|   | A  | B       | C        | D          | E      | F     | G   | H  | I     |
|---|----|---------|----------|------------|--------|-------|-----|----|-------|
| 1 | SN | Name    | Addr     | Post       | Salary | Bonus | Tax | HA | Total |
| 2 | 1  | Sangam  | Ktm      | Manager    | 12000  |       |     |    |       |
| 3 | 2  | Seeta   | Ilam     | Accountant | 11500  |       |     |    |       |
| 4 | 3  | Geeta   | Ilam     | Engineer   | 10000  |       |     |    |       |
| 5 | 4  | Ram     | Chitawan | Director   | 12500  |       |     |    |       |
| 6 | 5  | Krishna | Pokhara  | Gardener   | 2500   |       |     |    |       |
| 7 | 6  | Mohan   | Chitawan | Peon       | 5000   |       |     |    |       |
| 8 | 7  | Pritam  | Ktm      | Assistant  | 1600   |       |     |    |       |

Conditions:

1. Bonus will give 15% of salary. If his/ her salary is less than and equal to 6000 and post is peon. [2]
2. Tax will pay 10% of salary and bonus, if he/ she is from either Ktm or Pokhara [2]
3. HA will get 5% of salary, if he/she is not from Ktm. [0.5]
4. Total is equal to the sum of (Salary, Bonus and Ha) by deducting the Tax [0.5]

- (b) What is photoshop? Explain five basic tools of photoshop. [1+4]

- 19.(a) What is slide transition? What are the advantages of using slide master. [1+4].

- (b) Explain block diagram of computer and its various components. [5]

- 20.(a) What is word processor? Explain the major functions available in review tab of word document. [5]
- (b) Define Network Topology? Write down the advantages of Network. [5]