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44 (1) BCA-HC-1026

2022

( Held in 2023 )

**COMPUTER FUNDAMENTALS AND  
ICT HARDWARE**

Paper : BCA-HC-1026

Full Marks : 60

Time : Three hours

*The figures in the margin indicate  
full marks for the questions.*

1. Answer the following question : *(any five)*  
1×5=5
- (a) What is the full form of FAT ?
  - (b) How many numbers of pins are available in RJ45 port ?
  - (c) The full form of SMPS is \_\_\_\_\_.  
*(Fill in the blank)*
  - (d) When the computer shuts down the \_\_\_\_\_ contents are lost.
    - (i) input
    - (ii) output
    - (iii) memory
    - (iv) storage

*(Choose the correct option.)*

Contd.

(e) The central processing unit consists of

(i) control unit

(ii) ALU

(iii) CPU

(iv) All of the above

*(Choose the correct option)*

(f) The full form of HDMI is \_\_\_\_\_.

*(Fill in the blank)*

2. Answer the following questions : **(any five)**

$2 \times 5 = 10$

(a) What do you mean by virus ?

(b) What is NIC ? Why is it necessary ?

(c) What is the primary work of SMPS ?

(d) What is disk cleanup ?

(e) Why is system backup necessary ?

(f) Write *two* differences between CRT and LCD monitor.

3. Answer **any five** :

3×5=15

- (a) Write the differences between RAM and ROM.
- (b) What do you mean by antivirus quarantine? Explain.
- (c) Explain about applications of ICT.
- (d) What is a MODEM? How does it work?
- (e) What is cache memory? Why is cache memory necessary?
- (f) What is router? Explain its working principle.

4. Answer **any six** questions :

5×6=30

- (a) What is a network cable? Explain about different types of network cable.
- (b) What do you mean by disk defragmentation? Briefly explain.
- (c) Briefly explain about bootstrapping process.
- (d) Draw a block diagram of a computer and briefly explain the components of a computer.

- (e) Describe *any two* latest Intel microprocessors.
  - (f) Explain the internal working principle of a hard disk.
  - (g) What is BIOS? How does it work in a computer?
  - (h) Write the steps to install Linux operating system on a new hard disk.
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