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**B—457—2019**

**FACULTY OF SCIENCE**

**B.Sc. (First Year) (First Semester) EXAMINATION**

**MARCH/APRIL, 2019**

**(CGPA Pattern)**

**COMPUTER SCIENCE**

**Paper I**

**(Fundamental of Computer Organization)**

**(MCQ & Theory)**

**(Tuesday, 30-4-2019)**

**Time : 10.00 a.m. to 12.00 noon**

*Time—2 Hours*

*Maximum Marks—40*

*N.B. :— (i) All questions are compulsory.*

*(ii) Figures to the right indicate full marks.*

*(iii) Assume suitable data, if necessary.*

**MCQ**

1. Select the *correct* answer of the following : 10

(i) First generation of computers ..... used.

(a) Magnetic Tape

(b) Integrated circuits

(c) Vaccum Tube

(d) Transistors

(ii) Eight Bit make up a .....

(a) Byte

(b) Megabyte

(c) Kilobyte

(d) Gigabyte

(iii) ..... of the following is different from other.

(a) Internet

(b) Windows

(c) Unix

(d) Linux

P.T.O.

- (iv) Any data or instruction entered into the memory of a computer is considered as :
- |             |                 |
|-------------|-----------------|
| (a) Storage | (b) Output      |
| (c) Input   | (d) Information |
- (v) ..... command is used to create a new file DOS.
- |               |              |
|---------------|--------------|
| (a) Create    | (b) Copy con |
| (c) Copy file | (d) MD       |
- (vi) Use of icons and windows are characteristics of a ..... interface.
- |                    |                      |
|--------------------|----------------------|
| (a) Command-driven | (b) Windows-oriented |
| (c) Graphical-user | (d) Menu-driven      |
- (vii) ..... of the following memory is non-volatile.
- |          |          |
|----------|----------|
| (a) SRAM | (b) DRAM |
| (c) ROM  | (d) RAM  |
- (viii) ..... of the following has the most/high storage capacity.
- |         |                 |
|---------|-----------------|
| (a) CD  | (b) CD-RW       |
| (c) DVD | (d) Floppy disk |
- (ix) Windows is ..... system.
- |             |               |
|-------------|---------------|
| (a) Storage | (b) Processor |
| (c) Output  | (d) Operating |
- (x) In processing bank cheques which of the following input/output device have bank traditionally followed :
- |             |          |
|-------------|----------|
| (a) OCR     | (b) MICR |
| (c) Barcode | (d) VRT  |

**Theory**

2. (a) Explain characteristics of computer. 5
- (b) Explain BCD code with example. 5
- Or*
- (c) Explain types of computer. 5
- (d) Explain ASCII code for data representation. 5
3. (a) Explain booting procedure of DOS. 5
- (b) Explain Light Pen and Mouse. 5
- Or*
- (c) Convert the following : 5
- (i)  $(52)_{10} = (?)_2$
- (ii)  $(1001110)_2 = (?)_{10}$ .
- (d) Explain any *three* internal dos commands with suitable examples. 5
4. (a) Explain Generations of computer. 10
- Or*
- (b) Explain Control Panel and its functions. 10