

Total No. of printed pages = 6

END SEMESTER EXAMINATION, NOVEMBER-2018

Semester : 5th

Subject Code : Et-504

PC SYSTEM AND TECHNOLOGY

Full Marks – 70

Time – Three hours

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

Instructions :

1. *All* the questions of PART-A are compulsory.
2. Answer any *five* questions from PART-B.

PART – A

Marks – 25

1. Fill in the blanks : 1×10=10

(a) _____ is the only file system supplied by MS-DOS.

(b) A standard VGA display has _____ pixels in its native graphics mode.

[Turn over

- (c) The DDR2 SDRAM can transfer data across the bus _____ times per clock.
- (d) _____ are not a type of hybrid memory.
- (e) _____ is the main circuit board inside the system.
- (f) _____ is known as the main memory.
- (g) Cache memory is used in a computer system to _____.
- (h) _____ is a program that translate mnemonic statements into executable instructions.
- (i) Network of computer network is called _____.
- (j) FDD stands for _____.
2. Write true or false : 1×10=10
- (a) DRAM is faster than SRAM.
- (b) The IBM PC released in 1981 was one of the grandfather of all PC's.

- (c) SRAM does not retain the contents when electrical power is applied to it.
- (d) The chipset is defined the motherboard's capabilities.
- (e) A 32-bit machine means a 32-bit address bus.
- (f) Among the different keyboard technology rubber done type is the most reliable one.
- (g) ROM is a volatile memory.
- (h) The MBR of disk drive contains the partition information.
- (i) A list of instructions that perform a task is called a program.
- (j) Many socket names containing three digit numbers represent the number of pins as the processor or socket.
3. Choose the correct answer : 1×5=5
- (a) World largest semiconductor company
- (i) Intel (ii) Intex
- (iii) SONY (iv) LAVA

(b) DIMM stands for

- (i) Double Inline Memory Module
- (ii) Double Inline Math Module
- (iii) Dual Inline Math Module
- (iv) Dual Inline Memory Module

(c) Pentium was introduced in the year

- (i) 1993
- (ii) 1989
- (iii) 1994
- (iv) 1997

(d) The term COM port is referred to

- (i) Serial port
- (ii) Parallel port
- (iii) Audio port
- (iv) None of the above

(e) A scanner is a

- (i) Input device
- (ii) Output device
- (iii) Both input and output device
- (iv) None of these

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360(B)

PART - B

Marks - 45

4. (a) Differentiate between SRAM and EDO RAM. 3

(b) State the important function of chipsets in a computer. 3

(c) Name and explain the different types of memory used in PCs. 3

5. (a) Discuss briefly the function of POST in a computer system. 3

(b) Write the evolution of Intel chipsets. 3

(c) What do you understand by motherboard form factor? 3

6. (a) State the important features of FAT 16 and FAT 32 systems. 3

(b) Explain briefly the different technologies and interfacing procedures used in a printer. 3

(c) Bring out a comparison between popular HDD interfacing. 3

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[Turn over

7. (a) Discuss about various types of serial and parallel ports. 4½
 (b) Explain the construction of a hard disk drive with diagram. 4½
8. (a) Discuss about some important specification of microprocessor used in IBM PC. 4½
 (b) Classify memory management and give a brief introduction to each classification. 4½
9. (a) What do you understand by formatting of a storage device ? Explain. 4½
 (b) What are USB and fire wire ports ? What are their advantages ? 4½
10. What is BIOS, POST, and CMOS setup ? Explain. 9
11. Explain the functions and voltage levels of a PC-SMPS. 9
12. Explain the working of a Keyboard used in computers. 9