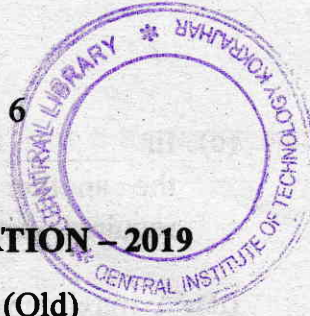Total No. of printed pages = 6

RETEST EXAMINATION – 2019

Semester : 5th (Old)

Subject Code : Et-504

PC SYSTEM TECHNOLOGY

Full Marks – 70

Time – Three hours

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

Instructions :

1. *All* 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) One byte is equal to _____ bits.

   (b) A peripheral which is used to accept data and send it to processing unit is called _____.

[Turn over

(c) In _____ transfer each bit is sent one after the another in a sequence of event and requires just one line.

(d) A maximum of _____ peripherals can be connected to a single USB host controller.

(e) The efficiency of an offline UPS is _____ since the charger is not continuously on.

(f) Dot matrix is a type of _____ printer.

(g) RS-232 is _____ port standard.

(h) ALU and Control unit jointly known as _____.

(i) The primary function of the _____ is to set up the hardware and load and start an operating system.

(j) RAM consumes _____ access time as compared to cache memory.

2. Write true or false :   1×10=10

(a) The south bridge chipset links the CPU to lower speed peripheral device.

(b) There are 9 pin on VGA.

(c) SRAM chip use a matrix of 6 transistor and one capacitor.

(d) Keyboard is a pointing device.

(e) Personal computer were appeared in 4th generation.

(f) DOS is a multi-tasking operating system.

(g) Optical disk read the data by reflecting pulses of laser beams on the surface.

(h) Firewire is a serial bus.

(i) When arithmetic, logic and control unit of a computer are combined into a single unit, it is known as operating unit.

(j) The boot sector files of the system are stored in RAM.

3. Choose the correct answer :   1×5=5

(a) A Microsoft windows is a/an

   (i) Operating system
   (ii) Application software
   (iii) Word processing
   (iv) Graphic program

(b) Which one of the following has the shortest access time ?

(i) NMOS EPROM

(ii) NMOS RAM

(iii) CMOS RAM

(iv) Bipolar static RAM

(c) DMA facility is required to increase the seed of the data transfer between the

(i) Microprocessor and I/O memory

(ii) Microprocessor and I/O device

(iii) Memory and I/O device

(iv) Memory and register

(d) Image quality of a printer is measured in

(i) dp   (ii) pixel

(iii) resolution   (iv) bit per second

(e) A COM port is a

(i) Parallel port   (ii) LAN

(iii) Game port   (iv) Serial port

PART – B

Marks – 45

4. (a) With the help of a neat block diagram, explain the different parts of a PC. 5

(b) Differentiate between SRAM and DRAM. 4

5. (a) What are the functions of an operating system ? 3

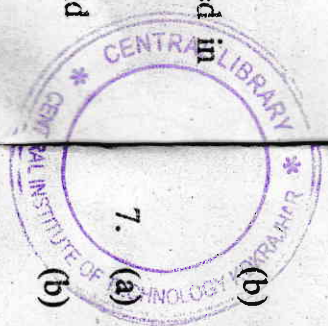(b) What is the function of interrupts, BIOS and POST in a computer system ? 6

6. (a) State the important differences between DOS and Windows. 5

(b) What is the function of interrupts in a computer system ? 4

7. (a) What are serial and parallel port ? 3

(b) State the important features of USB and FIRE-wire. 6

8. Draw a neat diagram of a hard disk and also the label the tracks,platters,sectors and cylinder and explain the working of a hard disk. 3+6=9

9. (a) What are video adapters ? Discuss their utility in a computer system. 6

   (b) Differentiate between the mouse and the track ball. 3

10. Write about the different types of UPS and SMPS. 9

11. Draw and explain the working of a CRT display. 9