

2017

Time : 3 hours

Full Marks : 75

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

*Answer any **five** questions, in which question no 1 is compulsory.*

1. Perform the following conversion:
- (a) Convert binary 110110 to Decimal
 - (b) Convert decimal 255 to binary
 - (c) Convert AB2C to binary
 - (d) Convert 10100 into 2's complement
 - (e) Find $10110 + 110$

- 2. Sketch the block diagram of digital computer. Explain the function of various units of computer system.
- 3. Discuss the various generations of computer.
- 4. What is CPU? Describe in details the various units of CPU with diagram.
- 5. (a) Define Ms-Dos? Explain internal and external with five commands of each.
(b) Explain the following with type, purpose, syntax and example :
 - (i) CD
 - (ii) Dir
 - (iii) Format
 - (iv) Date
 - (v) Tree
- 6. Differentiate between the following (any **Two**)
 - (a) Printer and plotter
 - (b) RISC and CISC
 - (c) Off-line and On-line data entry
 - (d) Compiler and Interpreters

7. Define computer programming language.

Describe machine, assembly and high level language with merits and demerits.

8. (a) What are the characteristics of good program?

(b) What do you mean by algorithms?

(c) Write an algorithm and draw the flowchart to sum of even numbers between 1 to 100.

9. Write a program in QBASIC to find the average of any five integer number with flow chart.

10. Write short notes on any two of the following:

(a) Pseudo code

(b) DMA controllers

(c) Seek time

(d) Batch files

(e) Dot Matrix Printers

— x —