



- Notes :
1. Solve Question 1 OR Questions No. 2.
 2. Solve Question 3 OR Questions No. 4.
 3. Solve Question 5 OR Questions No. 6.
 4. Solve Question 7 OR Questions No. 8.
 5. Solve Question 9 OR Questions No. 10.
 6. Solve Question 11 OR Questions No. 12.
 7. Assume suitable data whenever necessary.
 8. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) List various input methods and explain OMR and OCR in detail. 7
- b) Explain magnetic hard disk in detail. 6

OR

2. a) Explain difference between static RAM and Dynamic RAM. 4
- b) Explain the following. 9
- i) CDROM ii) DVD
- iii) Line printer and character printer

3. a) Explain generation of computers in brief. 8
- b) Explain HYPCOM processor in detail. 5

OR

4. a) Write a machine language program for HYPCOM to find greatest among 3 numbers. 7
- b) Explain. 6
- i) Moor's law.
- ii) Parallel computers.

5. a) What is Flowchart? Give the various symbols which are used to make flowchart. 4
- b) Differentiate among High level Language, Low level Language and middle level language. 6
- c) Explain HTML with example. 4

OR

6. a) Explain various generations of programming language. 6

- b) Explain: 8
- i) Assembly Language.
 - ii) PYTHON.
7. a) Explain the following. 6
- i) Linker.
 - ii) Loader.
 - iii) Debugger.
- b) Explain unique application program in detail. 7
- OR**
8. a) Explain system management program. 7
- b) What is software? Also list various types of computer software's. 6
9. a) What is operating system? Explain various types of operating system. 8
- b) Explain. 6
- i) Open source software.
 - ii) Free software.
- OR**
10. a) Explain: 9
- i) FOSS.
 - ii) GNU project.
 - iii) MAC O.S.
- b) Explain proprietary Vs. open source Licensing model. 5
11. a) How moving image is captured with camera? 4
- b) Write a note on: 9
- i) Speech processing.
 - ii) Compression of Audio signals.
 - iii) Representation of an images.
- OR**
12. a) Explain compression of video signals in brief. 6
- b) Explain acquiring & storing of audio signals. 7
