

B.E. Third Semester (Computer Engineering) (C.B.S.)
Concepts in Computer Engineering

P. Pages : 2

Time : Three Hours



NKT/KS/17/7249

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
 2. Solve Question 1 OR Questions No. 2.
 3. Solve Question 3 OR Questions No. 4.
 4. Solve Question 5 OR Questions No. 6.
 5. Solve Question 7 OR Questions No. 8.
 6. Solve Question 9 OR Questions No. 10.
 7. Solve Question 11 OR Questions No. 12.
 8. Due credit will be given to neatness and adequate dimensions.
 9. Assume suitable data whenever necessary.
 10. 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 various generations of computers in detail. 8
b) Explain distributed computing system. 5

OR

4. a) Explain structure of instructions. 4
b) Explain MOOR's Law. 4
c) Explain HYPCOM processor. 5
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 languages. **6**
b) Explain : **8**
i) Assembly Language
ii) PYTHON
7. a) What is Computer Software? Explain various types of Computer Softwares. **7**
b) Explain : **6**
i) Unique Application Software.
ii) Problem Solving.

OR

8. a) Explain : **10**
i) System Management Programs.
ii) System Development Programs.
- b) Explain Structuring the Logic. **3**
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. Explain the following : **13**
i) Capturing a moving image with Camera.
ii) MPEG Compression Standard.
iii) Speech Processing.

OR

12. a) Explain acquiring & storing audio signals. **6**
b) Explain : **7**
i) Compression of Video data.
ii) Compression of audio signals.
