NTK/KW/15-7337

Third Semester B. E. (Comp.Engg.) (C.B.S.) Examination

CONCEPTS IN COMPUTER ENGINEERING

Time : Three Hours]

[Max. Marks : 80

- N. B. : (1) All questions carry marks as indicated.
 - (2) Due credit will be given to neatness and adequate dimensions.
 - (3) Diagrams should be given wherever necessary.
- 1. (a) Differentiate between Read Only Memory and Serial Access Memory. 6
 - (b) Explain :—
 - (i) MICR
 - (ii) OCR
 - (iii) Inkjet Printers Vs Laser Printers
 - (iv) Bar Coding

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OR

- 2. (a) Explain in detail :---
 - (i) Magnetic Hard Disk.
 - (ii) Compact Disk Read Only Memory. 8
 - (b) Explain Keyboard and Flat Pannel Display. 6
- 3. (a) Explain five generations of computers in detail. 6

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Contd.

(b)	Write a machine langu	age program for HYPCO	M
	to find the smallest of	of three numbers.	7

OR

4.	(a)	Draw and explain the logical structure of HYPCOM Processor. 6	
	(b)	Explain Moor's Law. 3	
	(c)	Explain :—	
		(i) Parallel computers.	
		(ii) Distributed Computing System. 4	
5.	(a)	Explain characteristics of a good programming language. 4	
	(b)	Explain following programming languages in detail.	
		(i) Assembly language.	
		(ii) HTML	
		(iii) Python. 9	
		OR	
6.	(a) What is algorithm and flowchart ? Write an algorithm and draw flow chart for entering 10 numbers and calculate average.		
	(b)	What are the different factors that affect the choice of language. 5	
7.	(a)	What is software ? Explain two types of software's with three examples of each. 9	
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	(b)	Explain the steps to solve a problem. 4	
OR			
8.	(a)	Explain Unique Application Programs. 6	
	(b)	Explain various system development programs.7	
9.	(a)	What is operating system? Explain the following :	
		(i) MAC OS	
		(ii) FEDORA	
		(iii) UNIX 7	
	(b)	What is free software? Explain various freesoftware license providers.6	
OR			
10.	(a)	Explain various types of operating system in detail. 7	
	(b)	Explain :—	
		(i) FOSS	
		(ii) GNU Project	
		(iii) Open Source 6	
11.	(a)	How a moving image is captured with a video camera ? Explain. 7	
	(b)	What are the problems in speech analysis and recognition ? Explain speech processing. 7	

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OR

12. (a) Explain :---

- (i) Compression of audio signals.
- (ii) Audio Signal Processing.
- (iii) MPEG Compression Standard. 9
- (b) How video data is compressed? Explain. 5

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