2019

COMPUTER SCIENCE — HONOURS

Paper: CC-5

Full Marks: 50

The figures in the margin indicate full marks.

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

Answer question no. 1 and any four questions from the rest.

		Answer question no. I and any jour questions from the rest.	
1.	Ans	swer any five questions of the following:	2×5
	(a)	Define 'machine cycle' and 'instruction cycle'.	
	(px)	What are tristate devices?	
	(c)	What do you mean by 'pseudo code'?	
	(d)	Highlight the main differences between DRAM and SRAM.	
	(e)	What is the function of temporary register?	
	(f)	What is IAS computer?	
	(g)	What is cache coherence problem?	
	(ek)	What is DMA?	
2.	(a)	What are zero, one, two and three addressing of a general purpose computer? Explain with pexamples.	proper
	(b)	What are the differences between opcode and operand?	8+2
3.	(a)	What is flag register?	
-	. ,	State the functions of different types of flag registers.	2+8
4.		What does an interface do?	
	(b)	Draw a block diagram to show the connection between the processor, I/O bus and I/O dev	ices.

5. (a) What are the different types of non-volatile memories? Explain briefly with suitable examples.

(b) How data can be re-written on a PROM and EPROM? 6+4

(c) Briefly explain the steps of data communication between the processor and the peripheral devices.

6/ What are the functions of Stack Pointer, Program Counter, Accumulator and Instruction Register? 10

Please Turn Over

2+4+4