Code No: 125EN

R15 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, November/December - 2017

COMPUTER ORGANIZATION AND OPERATING SYSTEMS

(Common to ECE, ETM)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

				(25 Marks)
1.a)	With a neat diagram explain th	omputer.	[2]		
b)	What is Stack Organization?			•	[3]
c)	Define Cache Memory.				[2]
 d)	What is a Micro Program?				[3]
 e)	What is an Interrupt?		and a		[2]
f)	What is an IO Processor?	and a second	с — ² улучи на со		[3]
g)	Define Trashing.				[2]
h)	How to describe the deadlock?	Give an examp	le.		[3]
i)	List any four file operations.	F			[2]
i)	Mention the objectives of File				
57			Storn.		[3]

PART - B

	2.	Explain the instruction cycle with a neat flow chart.	(50 Marks) [10]			
		OR				
	3.	Give explanation about the fixed point and floating point representations in detail. [10]				
	4.	What is Virtual Memory? Explain in detail.	[10]			
		OR	1.1	ę		
*******	5.	With neat diagram, explain address selection for control memory.	[10]			
	6.	Explain about different modes of transfer.	[10]			
		OR	[IU]			
	7.	Discuss about interrupt priorities.	[10]			
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	8.	What are the goals of memory management? Explain the Contigu	uous Memory			
1.11.5		Allocation techniques.	[10]			
	0	OR				
	9.a)	What are the differences between paging and segmentation?				
	b)	Explain the Deadlock Prevention Technique.	[5+5]			
	10.	Explain the different file allocation methods.	F101			
		OR	[10]			
	11.	Write short notes on file sharing and file protection.	[10]			
			[10]			

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