Code No: 125EN

Time: 3 hours

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, November/December - 2017 COMPUTER ORGANIZATION AND OPERATING SYSTEMS (Common to ECE, ETM)

(Common to ECE, E1M)

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

PART - A		
		(25 Marks)
1.a)	With a neat diagram explain the basic operational concepts of computer.	[2]
b)	What is Stack Organization?	[3]
c)	Define Cache Memory.	[2]
d)	What is a Micro Program?	[3]
e)	What is an Interrupt?	[2]
f)	What is an IO Processor?	[3]
g)	Define Trashing.	[2]
h)	How to describe the deadlock? Give an example.	[3]
i)	List any four file operations.	[2]
j)	Mention the objectives of File management System.	[3]
PART - B		
		(50 Marks)
2.	Explain the instruction cycle with a neat flow chart.	[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	
5.	With neat diagram, explain address selection for control memory.	[10]
6.	Explain about different modes of transfer.	[10]
	OR	
7.	Discuss about interrupt priorities.	[10]
8.	What are the goals of memory management? Explain the Contiguo	
	Allocation techniques.	[10]
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.	[10]
	OR	
11.	Write shown find Annia Egyptetion S.CO.IN	[10]