Total	l No	. of Questions :6] SEAT No. :				
P29	•	TE/Insem./APR-33 [Total No. of Pages : 2]				
		TE (E&TC)				
304190: SYSTEM PROGRAMMING & OPERATING SYSTEM						
(2015 Pattern) (Semester - II)						
æ.						
		Hour] [Max. Marks : 30 ons to the candidates:				
	1)	Solve Q1 or Q2, Q3 or Q4, Q5 or Q6.				
	2)	Neat diagrams must be drawn wherever necessary.				
	<i>3)</i>	Figures to the right side indicate full marks.				
	<i>4)</i>	Assume Suitable data, if necessary.				
<i>Q1</i>)	a)	What is interpreter? Explain the role of interpreter with suitable examples.				
~	,	[5]				
	b)	Explain different phases of language processing in detail. [5]				
		OR OR				
Q 2)	a)	Define MACRO. How macro is different from functions? Explain				
		MACRO with an example. [5]				
	b)	Explain in brief advanced assembler directives with suitable examples.[5]				
Q 3)	a)	Explain different phases of compiler with a suitable example.				
	b)	Explain features and functions of a loader. [4]				
		OR S				
		×,				
Q 4)	a)	Explain various code optimizations techniques with suitable examples.[5]				
	b)	Explain Absolute Loader Scheme in detail. [5]				
Q5)	a)	Consider the following processes where arrival time and burst time are				
23)	u)	as shown below. Calculate average waiting time and average turnaround				
		time if the processes are scheduled using Round Robin scheduling				
		algorithm. Time quantum = 2. [5]				

P.T.O.

	Process	Burst time Ar	rival time	
	P1	5	0	
	P2	4	1	
	P3	200	2	
	P4	\$ ¹ 1	4	
b)	Explain in detail ba	ich operating and dist	tributed operating system	. [5]
	3	OR		
Q6) a)	What is thread? Lis	t down benefits of us	ing thread.	[4]
b)	Define process. Exp	olain Process Control	Block with suitable diagra	ım.[6]
			S. S	
	C. A.	0000	6.5	
١	×,		0.	
			,	
		00		20
	0			
		70.		
		De 16.1.	3	<i>*</i>
	8	,	9,000	
		4		
), ² 20	
		(26.	
		C. S.	The same of the sa	
		0.4		

TE/Insem.-33