



BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – MCA-2020/MCA-2021
Course Name – Operating Systems
Course Code - MCA202
(Semester II)

Full Marks: 60		
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[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

Time: 2:30 Hours

Choose the correct alternative from the following:

	choose the correct alterna	tive from the following	/ :		
(i)	Explain Dynamic loading				
	a) loading multiple routines dynamically c) loading multiple routines randomly ii) Explain the must design and prog		d) none of the mentioned		
	a) programmer c) system designer Explain the	swaps processes in an	b) system architectd) none of the mentionedd out of the memory.		
(iv)	a) Memory manager b) CPU c) CPU manager d) User iv) Identify which information is recorded magnetically on platters.				
(v)	a) magnetic disksc) assembliesDefine the platform OS pr	ovides to run	b) electrical disks d) cylinders		
(vi)	a) System Softwarec) System Software and Appeline DOS	ppliaction Software	b) Appliaction Software d) None of these		
(vii)	a) Frame bit c) System Software Identify an application so	ftware	b) Page number d) None of these		
	a) OS c) DOS		b) MS WORD d) None of these		

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1315	M. W. J. Benger		n has jitter than a soft	
43	ware on Rosal 7001 be the answer, Hard real time operation real time operations system	ing syster	n nasjitter titel	
•	a) Less		b) more	
	c) equal		d) none	
	(ix) Focus The size of a page is typically			
	a) varied		b) power of 2	
	c) power of 4	6	d) none of the mentioned	
	(x) Explain the thing paging there is no	ira	gmentation.	
	a) nternal		b) external d) none of the mentioned	
	c) either type of(xi) Identify To recover from failures in the no	atwork o	nerations information	
	may be maintained.	ELWOIK	perations -	
	·		b) ip address	
	a) operating systemc) stateless		d) state	
	(xii) Express a program in execution			
	a) Process		b) Instruction	
	c) Procedure		d) Function	
	(xiii) Estimate one of the following approaches state?	s that do	not require knowledge of the system	
	a) Deadlock detection.		b) Deadlock prevention.	
	c) Deadlock avoidance		d) None of these	
	(xiv) Choose the correct answer,A a set of messages that can be set	of wires a ent on th	ind a rigidly defined protocol that e wires.	
	a) port		b) node	
	c) bus(xv) Choose the correct answer, In rate monot	onic sch		
	a) shorter duration job has higher priority b) longer duration job has higher			
	 c) priority does not depend on the duration the job 	on of	d) none of the mentioned	
		Group	ı-R	
	(Short Ar	-	pe Questions)	3 x 5=15
		520	•	
	2. Illustrate Contiguous memory allocation			(3)
	3. Explain mutual exclusion			(3)
	4. Explain CPU Scheduling.			(3)
	5. Describe Multi program			(3)
	6. Justify how we prevent Deadlock			(3)
		OR		
	Compare different types of semaphore.			(3)
		Group		
	(Long Ans	swer Typ	e Questions)	5 x 6=30
	7. Compare between logical address and physi	ical addr	ess	(5)
	Explain Internal and external fragmentation	١.		(5)
	9. Explain Turn around time and Response tim	ie		(5)
	10. Explain Gnatt chart with example			(5)
	11. Compare between page hit and page miss			(5)
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12. Define Main Function of Operating system

Define Multitasking Operating system with an example

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(5)