## Q.P. Code: 16MC806 Reg. No.

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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR													
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MCA I Year II Semester (R16) Regular Examinations May/June 2017													
					DA]	<b>FAST</b>	RUCI	URE	S		2		
				(For S	Stude	nts adu	mitted	in 201	l 6 only	y)			
fime: 3 hours Max. Marks:60													
(Answer all Five Units 5 X $12 = 60$ Marks)													
UNIT-I													
Define hashing function. Explain any two Hashing functions with examples.												12M	
OR													
Discuss the Algorithm of merge sort with an example. Derive its time complexity.											12M		
		_			-	l	UNIT	-II					
What is linked list? Write and explain the algorithm for greate and traverse													
oper	perations in single linked list with example.											12M	
4 Explain the doubly linked list in detail.												1014	
												1211	
UNIT-III													
Write a procedure to convert an infix expression into postfix form. Explain it by an													
example.													
UK													
Give	e brief	f desci	ription	about	the p	riority	queue	es.				12M	
						l	UNIT-	IV					
Wha	at is B	-tree of	of orde	er m.?	Write	insert	tion an	d dele	tion o	perati	ons on the same.	12M	
							OR						
Wha	at is h	eap? E	Explair	n algoi	ithm :	for he	ap sort	with	an exa	mple.		12M	
Defi	ine gra	aph. E	xplain	vario	us ope	eratior	ns on g	raphs.				12M	
OR													
Exn	lain B	FS als	porithr	n with	exam	nple.						12M	
P						r - * •						1 2111	
	IDD IDD IDD IDO	SIDDHAR MCA MCA hours Define ha Discuss th What is operations Explain th Write a pr example. Give brief What is B What is h Define gra Explain B	SIDDHARTH IN MCA I Yea MCA I Yea hours Define hashing Discuss the Alg What is linked operations in sin Explain the dou Write a procedu example. Give brief descr What is B-tree of What is heap? E Define graph. E Explain BFS alg	SIDDHARTH INSTIT         MCA I Year II S         MCA I Year II S         hours         (A         Define hashing function         Discuss the Algorithm         What is linked list?         operations in single lin         Explain the doubly lin         Write a procedure to c         example.         Give brief description         What is B-tree of orded         What is heap? Explain         Define graph. Explain         Explain BFS algorithm	SIDDHARTH INSTITUTE         MCA I Year II Semest         MCA I Year II Semest         (For Shours)         (Answer         Define hashing function. Ex         Discuss the Algorithm of me         What is linked list? Write         operations in single linked list         Explain the doubly linked list         Write a procedure to conver         example.         Give brief description about         What is B-tree of order m.?         What is heap? Explain algor         Define graph. Explain vario         Explain BFS algorithm with	Gibb Construction       Gibb Construction         Gibb Construction       Gibb Construction         Gibb Construction       Gibb Construction         Market Construction       Gibb Construction         Market Construction       Gibb Construction         Define hashing function       Explain         Discuss the Algorithm of merge s       What is linked list? Write and operations in single linked list wite         Explain the doubly linked list in d       Write a procedure to convert an in example.         Give brief description about the p       What is B-tree of order m.? Write         What is heap? Explain algorithm       Give brief construction         Mut is heap? Explain algorithm       Gib Construction         Mut is heap? Explain with example       Gib Construction	SIDDHARTH INSTITUTE OF ENGIN (AUTO) MCA I Year II Semester (R16) R DATAST (For Students add hours (Answer all Five Un Define hashing function. Explain any tw Discuss the Algorithm of merge sort wi What is linked list? Write and expl operations in single linked list with exant Explain the doubly linked list in detail.         Write a procedure to convert an infix ex example.         Give brief description about the priority What is B-tree of order m.? Write insert         What is heap? Explain algorithm for he Define graph. Explain various operation	SIDDHARTH INSTITUTE OF ENGINEERI (AUTONOM)         MCA I Year II Semester (R16) Regular DATASTRUCT (For Students admitted hours         (Answer all Five Units 5 X         UNIT         Define hashing function. Explain any two Has OR         Discuss the Algorithm of merge sort with an explain the operations in single linked list with example.         OR         Explain the doubly linked list in detail.         Write a procedure to convert an infix expressi example.         OR         Give brief description about the priority queue what is heap? Explain algorithm for heap sort is heap? Explain various operations on g         What is heap? Explain various operations on g         OR         Explain BFS algorithm with example.	SIDDHARTH INSTITUTE OF ENGINEERING & (AUTONOMOUS)         MCA I Year II Semester (R16) Regular Exam DATASTRUCTURE: (For Students admitted in 201)         hours         (Answer all Five Units 5 X 12 =         UNIT-I         Define hashing function. Explain any two Hashing f         OR         Discuss the Algorithm of merge sort with an examp         UNIT-II         What is linked list? Write and explain the algorithm example.         OR         Explain the doubly linked list with example.         OR         Give brief description about the priority queues.         UNIT-IV         What is heap? Explain algorithm for heap sort with the leap operations on graphs.         OR         Explain BFS algorithm with example.	SIDDHARTH INSTITUTE OF ENGINEERING & TEC (AUTONOMOUS)         MCA I Year II Semester (R16) Regular Examinati DATASTRUCTURES (For Students admitted in 2016 only hours         (Answer all Five Units 5 X 12 = 60 Mit UNIT-I         Define hashing function. Explain any two Hashing function OR         Discuss the Algorithm of merge sort with an example. Define hashing function. Explain any two Hashing function OR         Discuss the Algorithm of merge sort with an example. Define the dubly linked list with example.         OR         Explain the doubly linked list in detail.         Write a procedure to convert an infix expression into post example.         OR         Give brief description about the priority queues.         What is B-tree of order m.? Write insertion and deletion o OR         What is heap? Explain algorithm for heap sort with an example.         OR         What is heap? Explain algorithm for heap sort with an example.         OR         What is heap? Explain writous operations on graphs.         OR         Explain BFS algorithm with example.	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOL (AUTONOMOUS)         MCA I Year II Semester (R16) Regular Examinations M DATASTRUCTURES (For Students admitted in 2016 only)         hours       (For Students admitted in 2016 only)         hours       (Answer all Five Units 5 X 12 = 60 Marks)         UNIT-I       UNIT-I         Define hashing function. Explain any two Hashing functions wi         OR         Discuss the Algorithm of merge sort with an example. Derive it         UNIT-II         What is linked list? Write and explain the algorithm for operations in single linked list with example.         OR         Explain the doubly linked list in detail.         UNIT-II         Write a procedure to convert an infix expression into postfix for example.         OR         Give brief description about the priority queues.         UNIT-IV         What is B-tree of order m.? Write insertion and deletion operati OR         What is heap? Explain algorithm for heap sort with an example.         UNIT-V         Define graph. Explain various operations on graphs.         OR         Explain BFS algorithm with example.	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)         MCA I Year II Semester (R16) Regular Examinations May/June 2017 DATASTRUCTURES (For Students admitted in 2016 only)         hours       Max. Marks:60 (Answer all Five Units 5 X 12 = 60 Marks)         Define hashing function. Explain any two Hashing functions with examples.       OR         Discuss the Algorithm of merge sort with an example. Derive its time complexity.       UNIT-II         What is linked list? Write and explain the algorithm for create and traverse operations in single linked list with example.       OR         Explain the doubly linked list in detail.       UNIT-III         Write a procedure to convert an infix expression into postfix form. Explain it by an example.       OR         Give brief description about the priority queues.       OR         What is B-tree of order m.? Write insertion and deletion operations on the same.       OR         What is heap? Explain algorithm for heap sort with an example.       OR         What is heap? Explain algorithm for heap sort with an example.       OR         What is heap? Explain algorithm for heap sort with an example.       OR         What is heap? Explain algorithm for heap sort with an example.       OR         What is heap? Explain algorithm for heap sort with an example.       OR         What is heap? Explain algorithm for heap sort with an example.       OR         Define graph. Explain various operation	

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