

ANJUMAN-I-ISLAM'S

□ SCHOOL OF ENGINEERING & TECHNOLOG

□ SCHOOL OF PHARMACY

KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
Approved by : All India Council for Technical Education, Council of Architecture, Pharmacy Council of India New Delhi,
Recognised by : Directorate of Technical Education, Govt. of Maharashtra, Affiliated to : University of Mumbai.

■ □ SCHOOL OF ARCHITECTURE

	DEPARTMENT OF COMPUTER ENGINEERING		
CLA	ASS:- SE SEM:- IV		
SUE	BJECT:- COA DATE:- 2	8 / 02/ 2018	
DU	RATION:- 60 mins. MARKS:-	20	
	CLASS TEST 01		
Q.0	1 Attempt any 5: (10 Marks)	Marks	CO
a)	What is happening in the given instruction: Add #45,R1.	2	CO-2
b)	If a processor clock is rated as 1250 million cycles per second, the clock period is Mention the formula as well.	n its 2	CO-2
c)	The ALU makes use of to store the intermediate results. I all control and status registers.	ist 2	CO-1
d)	Any condition that causes a processor to stall is called as List out its types.	2	CO-2
e)	Differentiate Computer Architecture with Computer Organization.	2	CO-1
f)	The transformation between the Parallel and serial ports is done wi the help of register. Explain different modes of transfer.	th 2	CO-2
0.0	2 Attempt and 1 (07 Marks)		
Q.0 a)	Draw the flow chart for Booth's Algorithm for 2's Complete Multiplication. Using Booth's Algorithm show the multiplication of and (-10).		CO-1
b)	Draw the flow chart for Restoring Division and show the division (11) and (4).	n of 5	CO-1
0.0	3 Attempt any 1: (05 Marks) Av		
a)	Explain different types of pipeline hazards with suitable examples.	5	CO-2
b)	Explain the different Instruction formats with suitable example.	5	CO-2



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DEPARTMENT OF: COMPUT	ER ENGINEERING	
CLASS:- SE.CO	SEM:IV	
SUBJECT:-APPLIED MATHS-IV	DATE:- <u>27/02/2018</u>	
DURATION:- <u>1 HOUR</u>	MARKS:- <u>20</u>	
CLASS TEST		
Q1: Attempt any two questions of the following.	Marks	СО
a) Find eigen values and eigen vectors of $A = \begin{bmatrix} 2 & 1 & 0 \\ 0 & 2 & 1 \\ 0 & 0 & 2 \end{bmatrix}$	04	CO1
b) Evaluate $\int_0^{1+i} (x^2 + iy) dz$, along the path $y = x^2$	04	CO2
c) Evaluate $\int_C \bar{z} dz$, where C is upper half of $ z = 1$.	04	CO2
Q2: a) Is the matrix $A = \begin{bmatrix} 1 & -2 & 0 \\ 1 & 2 & 2 \\ 1 & 2 & 3 \end{bmatrix}$ diagonalisable? If $A = \begin{bmatrix} 1 & 0 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 0 \end{bmatrix}$ find A^{50} .	CHIRCH SHARE OF	CO1
b) Expand $f(z) = \frac{4z+3}{z(z-3)(z+2)}$ as Laurent series in i) $2 < z < 3$ ii) $ z > 3$ OR Evaluate $\oint_C \frac{e^z}{(z^2+\pi^2)^2} dz$, where C is $ z = 4$.	the ROC 06	CO2

	b) Write a c graphics program to draw the following output using only a single circle() function in the program.	+-	Q.03 Attempt any 1: (05 Marks)	what are 2D geometric dansion macions; explain any two them	Write the flood filling algorithm using 4 co	Q.02 Attempt any 1: (05 Marks)	f) Explain any one method of inside-outside test?	-		awpoly() and floodfill() functions.	b) What happens to the output if the scaling transformation factors are i) sx=sy=2 ii) sx=sy=0.5 ?	a) List any 4 applications of computer graphics?	Q.01 Attempt any 5: (10 Marks)	CLASS TEST 01	DURATION:- 60 mins. MARKS:- 20	SUBJECT:- Computer Graphics DATE:- 01 / 03 / 2018	CLASS:- SE	DEPARTMENT OF COMPUTER ENGG	AND MUMBAL - MOTE AND THE CONTROL OF MUMBINESTING ATTRIBUTED TO : UNIVERSITY OF MUMBAL - MOTE AND THE CHARGE	ANJUMAN-I-ISLAM'S KALSEKAR TECHNICAL CAMPUS, NEW PANYEL Approved by: All India Council for Technical Education, Council of Architecture, Pharmacy Council of India New Dalhi, COUNCIL OF ARCHITECTURE APPLICATION OF ARCHITECTURE
	5	51		U	51		2	2	2	2	2	2	Marks							
	C02	C02		C03	C02		C02	C02	C02	C02	CO3	CO1	60							

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C03	51	h) What is principle of antimolity of Write at the AFD.
CO3		A IF INCLES TO THE TO HOW IN STITUTE A REAL PLANTS AND A REAL PLAN
C03		33 Attempt any 1: (05 Marks)
	· ·	$\{2,1,2,1\}$
C02	S	a) Write the algorithm & Derive the complexity for binary search algorithm.
		02 Attempt any 1: (05 Marks)
COI	2	f) Compare time complexity of insertion and selection sort in worst, average and best cases.
C03	2	e) Write difference between Prim's & Kruskal's Algorithm.
CO2,3	2	d) Write at least two comparisons between Divide & Conquer strategy and Greedy Method.
C01	2	c)Explain any two properties of algorithm
C02	2	b) Write time functions for merge sort, quick sort, Binary search & MaxMin algorithms.
CO1	2	a) Write representation of upper bound of an algorithm running time.
60	Marks	01 Attempt any 5: (10 Marks)
		UNIT TEST 01
	MARKS:- 20	ORALION:- 60 mins.
2/2018	DATE:- 28/02/2018	
	SEM:- IV	Short
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CL	ASS:- SE	DEPARTMENT OF COMPUTER ENGINEERING SEM:- IV		
	BJECT:- OS		2 / 2010	
	RATION:- 60 m		3 / 2018	
		Will Hills 20		
0.0	1 Attempt any 5:	TERM TEST TEST I (10 Marks)	Moules	00
a)			Marks	CO
b)	Draw process star	xculsion. List software approaches for mutual exclusion.	2	CO
c)		class. Enlist the types of system calls.	2	CC
d)		ween process and threads (4 points minimum)	2	CC
e)	What do you mea	an by PCB. Draw the diagram form same. Enlist the metadata stored in	2 2	CO
	PCB.	A START THE GRAGITATION SAME. Elimist the inetagrata stored in	2	CO
f)	What do you mea	an by monolithic and microkernel?	2	CO
Q.0	2 Attempt any 1:	(05 Marks)		
a)	Assume following	processes arrive for execution at the time indicated and length of the CPU	J 5	CO
	burst time given in	ms.		
	Job	Burst Time Priority Arrival Time		
	P1	8 3		
	P2	No.		
	P3	23 9 2 9 5		
	P4	22 3 3 3 3		
	P5	6 4 4		
	Find AWT, ATAT	for FCFS, SJF (Non-Preemptive), Priority & Round Robin (Quantum 2 ms)		
b)	Consider following	set of processes, with length of the CPU burst time given in ms.	5	CO
				CO
		Process Burst time Priority		
		P ₁ 3		
		P ₂		
		P. NAVI ZUMBAI - ZNOIA P.		
		P4 TONBAL 4		
		P _s 5 2		
	The manager and	and the land of th		
	Gantt charts for the	ssumed to have arrived in the order P1, P2, P3, P4, P5 all at time 0.Draw following scheduling algorithms FCFS, SJF (non preemptive), priority and		
	RR (quantum =1) ar	and also calculate turnaround time and average waiting time.		
			-	
_	Attempt any 1: (
1)		stem. Explain different functions and objectives of operating system.	5	CO
_		ess communication in brief.		