## MINOR – II EXAMINATION (November-2015)

Subject Code: MCA-101 Subject: Fund Time: 1 ½ Hours			
		is compulsory. Attempt any two questions from the rest.	
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Q1		(2.5x4=10)	
	(a)	Explain five communication protocols?	
	(b)	Differentiate a process from thread. Write a short note on threading issues.	
	(c)	Difference between i) Compiler and Interpreter ii) Linker and Loader	
	(d)	Mention five characteristics MS-DOS and UNIX OS for each of them.	
2		(T-2)	
	(a)	Explain functionalities of Operating system. Discuss batch processing,	
		multiprogramming, multiprocessing, multi tasking, multi user and time sharing OS.	
	(b)	Explain different networking devices with diagram.	
3	, ,	(5,5)	
	(a)	Explain database management system and its types	
	(b)	Discuss different types of network. Difference between internet intranet and	
		extranet.	
1			
	2)	(5,5)	
	a) b)	What is Digital signature? How does it works and its services.	
1	D)	Explain : (i) Scheduling and it's types	
		(ii) Process state transition with diagram	
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# MINOR - IIEXAMINATION (Aug.-Dec. 2015)

Subject Code:MCA 103	Subject: Problem Solving Using C Programming	
Time: 1 ½ Hours	Maximum Marks :	

Q1			(2*5)			
	(a)	The keyword used to transfer control from a function back to the calling fur				
	(b)	How many parameters should a function have?				
	(c)	How do we get pointer value and address?				
	(d)	Write the syntax of one function each, to read and write data from a fi				
		programming.	le using C			
	(e)	Name the 3 types of streams used in C programming.				
Q2			(5,5)			
	(a	a) What will be output of following c code?	(-,-)			
		#include <stdio.h></stdio.h>				
		int main(){				
		int *p1,**p2;				
		double *q1,**q2;				
	1					
		printf("%d %d ",sizeof(p1),sizeof(p2));				
		printf("%d %d",sizeof(q1),sizeof(q2));				
		getch();				
		return 0;				
		}				
	(b)	What is a function prototype? What should you prototype a function?				
Q3			(5,5)			
	(a	What will be output if you will compile and execute the following c code?	(3,3)			
		the following c code:				
		#include <stdio.h></stdio.h>				
		void main(){				
	16	printf("\nhello");				
		main();				
		return 0;				
		i etalii o,				
	(b)	Fyrolain and broad and a second a second and				
0.4	(0)	Explain call by value and call by reference with example.				
Q4			(10)			
		Write a C program to create an Employee file containing employee records. Each				
		employee record should contain employee code, name, department and basic salary				
		(BS). Use another function to process the Employee file and read employee records,				
	×	record by record and calculate salary information as	records,			
		TA= 5% of BS				
		DA = 9% of BS				
		HRA = 11% of BS				
		IF BS > 10000, THEN TAX= 20% OF BS, ELSE TAX = 0.				
		Display the employee salary chart.				



### Second Minor Examination (November-2015)

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(4,4,2)
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## Second Minor Examination (November-2015)

Subject Code: MCA 107	Subject	Computer Organization
Time: 1 ½ Hours		Maximum Marks : 30
Note: Q. 1 is compulsory. Attempt any two q	uestions from the rest	iviaximum iviarks : 30
·		4
Q1		(2 5-4-10)
(a) Explain array processing with an exam	nnle	(2.5x4=10)
(b) How many interrupts are there in prog	rram control describelia a	
(c) Discuss any two address translation so	shames ward in it.	
(d) What do you mean by a page fault?	memes used in virtual memory	environment.
(d) What do you mean by a page fault?		
Q2		
(a) What are the various modes of data tra		(5,5)
(h) Discuss different to the control of the control	insier? Explain each of them.	
(b) Discuss different types of mapping pro	ocedures in consideration with	the organization of
Cache memory.		
02		
Q3		(5,5)
(a) Draw the space diagram for a six-segm	nent pipeline showing the time	it takes to process it. I
tasks. A nonpipeline system takes 50 r	is to process a task. The same i	task can be proposed in
a six-segment pipeline with a clock	cycle of 10 ns. Determine th	e speedup rotio of the
pipeline for foo tasks. What is the max	imum speed in that can be ach	ieved?
(b) what is the difference between isolated	I-I/O and memory manned-I/O	? What are the
advantages and disadvantages of each?	, 11	. What are the
Q4		/# #\
(a) Design a parallel priority interrupt hard	ware for a system with eight in	(5,5)
(b) Discuss memory address map with a su	litable example and its block d	iomupt sources.

#### MINOR – II EXAMINATION (Aug.-Dec. 2015)

	Code: MCA 109	Subject: Soft Skills		
	½ Hours	Maximun	Marks: 30	
Note: A	Il questions are compulsory.			
Q1 (I)	Write short notes on the following:		(3*2)	
	(a) Relevance of Johari Windo	ow for a professional		
	(b) Managing Time effectively			
(11)	Transcribe the following words us	ing phonetic symbols:	(1/2*10)	
		Discussion, Choir, Music, Churning, Treasure, Symp		
Q2		refully and answer the questions thereafter:  of 22 and had recently completed her post	(4,4)	
	her skills and technical knowled Software Company of repute. Sin Pvt Ltd. was coming to the campu quite assured that she would get s	ons. She was confident and smart and sure of dge. Her dream was to get a good offer in ce she had come to know that siska Software is to recruit students she was really excited and selected.		
	satisfactory manner. But when as was not able to give a proper a interviewer asked her in detail a Resume she could not defend w divide in the selection panel abo	sked about her short and long term goals, she nd coherent response. Also when one of the about the career objective mentioned in her hat she had written. As a result there was a but her suitability as the right candidate and cal questions well, she was finally not selected		
	(a) Why do you think Shashi was not selected in the Interview despite her good technical college?			
	(b) What in your opinion are the expectations of a prospective employer from a candidate?			
Q. 3	Elaborate on the relevant Do's and Don'ts of participating effectively in a Group Discussion Also present your opinion both in <b>favour and against</b> for the topic given below.			
Q4.	What is the importance of Audience	e a criminal waste of time te Analysis in making a Presentation effective and value to a Presentation and also comment upon dif (5)	(6) I engaging? ferent types	