



Prahladrai Dalmia Lions College of Commerce & Economics

ISO 9001:2015 Certified

Ref. No.: _____

Date: 15/10/19

NOTICE

Self – Financed Section B.Sc. (INFORMATION TECHNOLOGY)

ATKT Internal Examination Semester I , October'2019 INSTRUCTIONS FOR THE STUDENTS HAVING ATKT IN INTERNALS:

1. Date of Submission of the Projects- 22nd Oct, 2019, Time – 12:30 noon till 1:00pm on third floor, Room Number – T6.
2. Students must bring their hall tickets during the submission of their respective assignments or projects.
3. Students have to be present in person for the submission.
4. Formal Dress code to be followed during the viva voce.
5. Internal project topic is uploaded below this instruction sheet on the college website.
6. Submission of projects or assignments to be done on proper A4 size paper, handwritten only. The Front page should contain details of Roll no, Name of the student, Semester, Subject.
7. Print out of the questions uploaded should be attached with the project.
8. On the date of submission there will be a viva voce on the given topics. If the student fails to present himself on the given date and time he will be marked **ABSENT** for the said subject.
9. Any Submissions after the above mentioned date and time will not be accepted and entertained under any circumstance.

Prof. Durgesh Kenkre
Exam Convenor

Prof. Subhashini Naikar
Vice-Principal (SFC)

Dr.N.N.Pandey
Principal

DATE: 15/10/2019

DI/R-IPS/EXAM/00

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Subject : Imperative Programming

Roll No: 156

1.	Write a program to accept and display employee number, name and salary. Use the concept of union.
2.	Write a program to accept and display month name, abbreviation and number of days. Use the concept of structure.
3.	Write a program to swap two numbers without using third variable. Use the concept of pointers.
4.	Write a program that performs multiplication of matrices
5.	Write a program to arrange the 'n' numbers stored in the array in ascending and descending order.

Subject : Digital Electronics

Roll No: 121

1.	Short note on different techniques of binary subtractions.
2.	What are codes? Difference between weighted and non-weighted codes. Give one example of each.
3.	Describe the working of a multiplier.
4.	Describe with a truth table the working of Clocked Set – Reset flip flop.
5.	Write a short note on shift registers .

Roll No: 152

1.	Write the difference between analog signal and digital signal
2.	State and prove DeMorgan's theorem and realize it using basic gates.
3.	Describe with a truth table the working of JK flip flop.
4.	Difference between encoders and decoders
5.	Describe with a timing diagram the working of a 4 bit ring counter.

Roll No: 156

1.	Short note on different techniques of binary subtractions.
2.	What are codes? Difference between weighted and non-weighted codes. Give one

	example of each.
3.	Describe the working of a multiplier.
4.	Describe with a truth table the working of Clocked Set – Reset flip flop.
5.	Write a short note on shift registers .

Subject : Operating Systems

Roll No: 156

1.	Define Operating System. Explain main components of O.S.
2.	Write a short note on first generation of OS
3.	Explain Multiprocessor and Smart Card OS.
4.	Explain the system call for process management
5.	List and explain process states with suitable diagram.

Roll No: 152

1.	What are Device Controller and Device Driver? Explain.
2.	Explain Preemptable and Non Preemptable resources.
3.	What is Disk Formatting? List and explain different types of Formatting.
4.	Define deadlock. Write the conditions for resource deadlock.
5.	Explain SSTF (Shortest Seek Time First) disk scheduling algorithm with example.

Subject : Discrete Mathematics

Roll No: 156

1.	Find the number of integers from 1 to 500 which are not divisible by 2, 3 or 5.
2.	There are 15 girl students and 25 boys students in a class. How many students are there in total?
3.	Among 500 people, 350 either jog or swim or both. If 185 swim and 160 swim and jog, how many jog?
4.	Prove that if n is an odd integer, then $n^3 + n$ is even.
5.	Find the number of integers from 1 to 500 which are not divisible by 2, 3 or 5.

Subject : Communication Skills

Roll No: 156

1.	'You' attitude is the most important thing in communication with others.' Explain
2.	What are the two major forms of non-verbal communication? Explain.
3.	Discuss the need for using technology in business communication.
4.	Explain the various stages incorporated for developing relationships through interpersonal communication.
5.	Discuss variables of national culture in detail.