



THE MOGAVEERA VYAVASTHAPAKA MANDALI – MUMBAI
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Assignment for ATKT – Internal Exam – March 2025.

Program : B.Sc.I.T.

Note:

- All assignments are to be submitted in assignment sheets only.
- All students should mention their name and allotted examination seat number on the 1st page of the assignment.
- All submissions are to be made on 24th March 2025 from 10:30 am to 12:30 pm only.

SEMESTER – I
SUBJECT : Programming Principles with C
ASSIGNMENT TO BE SUBMITTED TO : Mr. Sangram Singh
QUESTIONS: Q.1. what are Basic datatypes Supported in C language? Q.2. what are tokens in C? Q.3. what is the use of static variables in C? Q.4. what is difference between local & global variables? Q.5. what are pointers and their uses?
SEMESTER – II
SUBJECT : Object Oriented Programming With C++
ASSIGNMENT TO BE SUBMITTED TO : Mr. Sangram Singh
QUESTIONS: Q.1. what are the different datatypes in C++? Q.2. what do you mean by Call by value & Call by Reference? Q.3. what is difference between C and C++? Q.4. Write a note on polymorphism? Q.5. WAP to demonstrate Multiple Inheritance?



SUBJECT : Fundamentals of Microprocessor & Microcontrollers

ASSIGNMENT TO BE SUBMITTED TO : Mr. Divyesh Nagrecha

QUESTIONS:

- Q.1. Write a short note PSW
- Q.2. List the basic functions of control unit
- Q.3. Write a short note on flag register of 8085
- Q.4. State the roll of address bus and data bus.
- Q.5. Classify the memories.

SEMESTER - III

SUBJECT : Python Programming

ASSIGNMENT TO BE SUBMITTED TO : Mr. Sangram Singh

QUESTIONS:

- 1) List and explain various datatypes in python.
- 2) Explain the Continue statement with a suitable example.
- 3) What is a fruitful function?
- 4) Explain use of logical operators in python.
- 5) WAP to demonstrate method overloading.

SUBJECT : Data Structures

ASSIGNMENT TO BE SUBMITTED TO : Mr. Sangram Singh

QUESTIONS:

- 1) Explain the categories in which data structure can be divided.
- 2) What are advantages & limitations of array.
- 3) Write a short note on linked list.
- 4) Explain sparse array with suitable example.
- 5) Write an algorithm to insert and delete a node from circular queue.



SUBJECT : Computer Networks

ASSIGNMENT TO BE SUBMITTED TO : Mr. Divyesh Nagrecha

QUESTIONS: 1) what are the matrices used in routing protocol

2) write short notes on DHCP

3) write any 5 salient features of IPv6

4) What are the features of transport layer?

5) write any 5 functions of Datalink layer

SUBJECT : Operating System

ASSIGNMENT TO BE SUBMITTED TO : Ms. Dinaaz Shaikh

QUESTIONS: 1) Explain the difference between multitasking, multiprocessing & multithreading.

2) What is the role of kernel in an OS? How does it differ from a shell?

3) Describe the concept of virtual memory & its importance in modern operating systems

4) What is deadlock in an operating system, & what are the necessary conditions for its occurrence?

SUBJECT : Applied Mathematics 5) What is OS?, & what are its primary functions?

ASSIGNMENT TO BE SUBMITTED TO : Mr. Divyesh Nagrecha

QUESTIONS: 1) Express $-\frac{1}{2} + \frac{\sqrt{3}}{2}i$ in Polar form

2) P.F. $(1+i\sqrt{3})^8 + (1-i\sqrt{3})^8 = -2^8$

3) solve $\sin 2x \frac{dy}{dx} = y + \tan x$

4) Evaluate $\int \int y \, dx \, dy$ over the area bounded by $y = x^2$ & $x + y = 2$

5) Evaluate $\sec(\arctan)$ in arctan form

Mr. Divyesh Nagrecha

Exam In-charge (Faculty of Science)



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