

# Internal Assessment-2020

**Class : B.Sc.IT 2<sup>nd</sup> semester**

**Subject : Object Oriented Programming with C++**

**Q1.** What do you mean by Object Oriented Programming? How is it different from the Procedural Oriented Programming.

**Q2.** What is friend function?

**Q3.** What is operator overloading? How is it necessary to overload an operator?

**Q4.** What do you mean by inheritance? What are the different forms of inheritance.

**Q5.** Write short notes on :

- a.** Objects and classes
- b.** Dynamic binding
- c.** Scope resolution operator
- d.** Copy constructor
- e.** Abstract classes

## **INTERNAL ASSESSMENT (2020)**

**Class : B.Sc. (IT) II Semester**

**Subject : Data structure**

**Marks: 30**

**Q1.** What are linear and non linear Data structures? Give one examples of each.

**Q2.** What is a Sparse Matrix? How can we represent the sparse matrix?

**Q3.** What is a stack? Explain Push & Pop operations performed using stack with examples?

**Q4.** Convert given infix expression into postfix expression by using stack:

$$(((A + B) ^ C) - D) + (F + G) * H$$

**Q5.** Write short notes on any five of the following:

- (a)** Complexity of algorithms
- (b)** Recursive function
- (c)** Dequeue
- (d)** Overflow condition
- (e)** Complete Binary Tree
- (f)** Threaded Binary Tree

## Internal Assessment -2020

**Class:** B Sc. IT 2<sup>ND</sup> Semester

**Subject:** System Analysis and Design

- Q1.** Discuss the different steps involved in SDLC model.
- Q2.** Explain DFD and Decision tree in detail.
- Q3.** What is role of System Analyst?
- Q4.** Define System and its characteristics.
- Q5.** Explain Coupling and Cohesion.
- Q6.** Differentiate between System Analysis and System Design.

# Internal exam

Class – BSc (IT)      II<sup>nd</sup> SEMESTER

Subject – EVS

Q1 Explain ozone layer depletion

Q2 Explain global warming and its effects

Q3 Explain pollution and its types

Q4 Write short notes on

a) Landslide

b) Deforestation

Q5 Explain various environment acts

## INTERNAL EXAM

Class – BSc (IT)      IV th semester

Subject – GRAPH THEORY

- Q1 Explain directed and non directed graphs.
- Q2 How a graph is made from a matrix. Explain
- Q3 Define minimum spanning tree.
- Q4 Define travelling salesman problem
- Q5 Describe
  - i) Isolated vertex
  - ii) Degree of a vertex

## Internal Assessment -2020

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**Class: B Sc. IT 4<sup>TH</sup> Semester**

**Subject: Management Information System**

- Q1.** Define Information. Discuss the various types of Information system.
- Q2.** Define MIS and briefly explain the elements of MIS.
- Q3.** Define DSS and Differentiate between MIS and DSS.
- Q4.** Define Database System. Discuss the different models of database systems.
- Q5.** Explain briefly the structure of MIS.
- Q6.** Describe the various approaches to understand the structure of MIS.

# **Internal Assessment-2020**

**Class : B.Sc.IT 4<sup>th</sup> semester**

**Subject : Operating System**

**Q1.** What do you mean by Operating System. Explain its major goals.

**Q2.** What is deadlock? How it can be prevent.

**Q3.** What are internal and external fragmentation in memory.

**Q4.** What is demand paging? Explain in brief.

**Q5.** What is page replacement algorithm. Explain LRU algorithm

**Q6.** Write short notes on :

- a.** Multiprogramming and multitasking
- b.** Segmentation
- c.** Threads
- d.** Working- Set model
- e.** Address Binding

## **B.Sc. IT 4<sup>th</sup> Semester**

### **Subject : Data Communication and Network.**

#### **Internal Assessment**

QUESTION 1. What is Computer Network? Explain Goals and Applications of Networks.

QUESTION 2. Describe OSI reference Model.

QUESTION 3 . Explain

- i Network Topology
- ii. LAN , WAN & MAN

QUESTION 4. Briefly explain

- a. TCP/IP
- b. Ethernet
- c. ALOHA Protocol
- d. Sliding Window Protocol

QUESTION 5. Briefly explain

- a. MODEM
- b. ROUTER
- c. BRIDGE
- d. SWITCH
- e. Nodes
- f. HUB

QUESTION 6. Describe –

- a. Band Width
- b. Un Guided Transmission Media
- c. Multiplexing
- d. Fiber Optics.

**B.Sc. IT 6<sup>th</sup> Semester**  
**Subjects : XML Programming**  
**Internal Assessment**

QUESTION 1. What is XML ? How XML is different from HTML . Describe XML Tags.

QUESTION 2. Describe

- i. Mark-up Languages
- ii. Introduction to XML and its Goals.

QUESTION 3. Explain

- a. XML Structure and Syntax
- b. XML Attributes

QUESTION 4. Briefly explain

- a. Display XML Documents
- b. Data Interchange with an XML document
- c. Document types definitions
- d. Parsers using XML

QUESTION 5. Briefly explain

- Scripting XML
- XML as Data
- Linking with XML.
- XSL –Style Sheet Basics.

QUESTION 6. Write any one XML Program.