

MODEL QUESTION PAPER SET- 1 : 2021 - 22

MM : 50

COMPUTER SCIENCE Paper – I (THEORY)

Time : 3 Hrs

Entire Syllabus

- Q.1. (A) Select the correct alternative and rewrite :** (4)
- i. Border attribute is Not used with _____ Tag. 1
(a) BR (b) TABLE (c) IMG (d) TD
- ii. _____ data type takes 8 bytes of memory. 1
(a) int (b) float (c) double (d) char
- iii. _____ is an Operating system. 1
(a) Oracle (b) Linux (c) Office (d) C++
- iv. Context switching is used in _____ . 1
(a) Memory management (b) Process management
(c) Information Management (d) Security Management
- (B) Answer any two of the following :** (6)
- i. Explain hard disk in terms of Sectors, Tracks and Read write head. 3
ii. State any six characteristics of Constructor. 3
iii. Explain : 1) Node 2) Record 3) File 3
- Q.2. (A) Answer any two :** (6)
- i. Explain Virus detection and prevention. 3
ii. Explain Runtime and compile time polymorphism 3
iii. State algorithm for deleting an element in array of length N. 3
- (B) Answer any one.** (4)
- i. State any four rules for operator overloading. Also explain operator function. 4
ii. Explain Scope resolution operator in terms of Local and global variables with example. 4
- Q.3. (A) Answer any two:** (6)
- i. State features of friend functions. 3
ii. Explain HTML tags : 1) HR 2) MARQUEE 3) PRE 3
iii. Write features of Windows NT 3
- (B) Answer any one :** (4)
- i. Explain opening and closing file in C++ program. Also explain any four file open modes. 4
ii. Explain working of multiprocessing done by Process management with example. 4
- Q.4. (A) Answer any two :** (6)
- i. Explain characteristics of static data members. 3
ii. Explain destructor in C++. 3
iii. Explain Stack with examples of push pop operations. 3

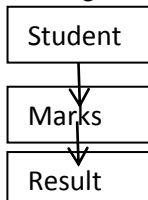
- (B) Answer any one: (4)**
- i. Explain Virtual memory. Also any three terms related with Virtual memory. 4
 - ii. Explain four different priorities related to Process management. 4

- Q.5.(A) Answer any two : (10)**
- i. Write a c++ program to print 10 Fibonacci series numbers. 5
(Fibonacci series is : 0 , 1 , 1 , 2 , 3, 5, 8, 13, 21 ...)
 - ii. Write a c++ program to calculate area of Circle using class. Define constructor to input radius & Member function to calculate and print area and circumference of circle. 5
 - iii. Write HTML code to display following on Web page. 5

Year	Students		
	Boys	Girls	Total
2019	50	48	98
2020	60	63	123

OR

- Q.5.(A) Answer any two :**
- i. Write C++ program to find largest number in any array. Assume length of array is 10. 5
 - ii. Write C++ Program to Create a class hierarchy as follows. 5



Class student stores Roll number and name of student and member function to input data.

Class Marks stores three subjects marks and member function to input marks.

Class Result with a function to calculate and output result such as student information, marks, total and average marks.

Define main program and work with object of Result class.

- iii. Write HTML code to display following on Web page. 5

XYZ College	← large size heading
Departments :	← Bold with larger size red font
<ul style="list-style-type: none"> • Arts • Science • Commerce 	
To view College campus Click here	← Link

The words Click here act as hyper link to a file campus.html in Images folder in D: drive