



UNIVERSITY

UNIVERSITY EXAMINATIONS 2009/2010 ACADEMIC YEAR

FOR THE DEGREE OF BACHELOR OF BUSINESS MANAGEMENT & INFORMATION TECHNOLOGY

COURSE CODE: BMIT 226

COURSE TITLE: COMPUTER PROGAMMING

STREAM: Y2S2

DAY: FRIDAY

TIME: 9.00 - 12.00 P.M.

DATE: 06/08/2010

INSTRUCTIONS:

- Question ONE Compulsory
- Answer Question ONE and Any Other THREE

PLEASE TURNOVER

QUESTION ONE COMPULSORY

QUESTION ONE (40 marks)

a. . What is a procedural programming language? Give an example [2marks] b. State and explain the five main features of C programming language [5 marks] c. Explain any four derived data types used in C language [4 marks] d. Define an identifier? List all the rules for identifiers. (3 marks) e. Consider the following segment of a program:-If(sex is male) { If (salary > 10000)Bonus=0.05 * balance; Else Bonus=0.02 * balance; } Else Bonus=0.02 * balance; Balance=balance * bonus; Required:a). Identify what type of If statement is this and why? (2mrks) b). Explain the execution flow for the above program segment. (3mrks) c). Draw a well labeled flow chart to represent the above execution procedure. (3mrks) f. WRITE A C++ program to find the largest value of any three numbers entered by the user through the keyboard. [3 marks] G.Define a constructor and hence explain its function and characteristics (6 marks) h. Write a C program that accepts student Roll number, Marks in three subjects and prints the calculated Total, Average.(It should be well commented). (4mrks) i. Explain function overloading in C++ [3 marks] j. write down the syntax for declaring a 2 dimensional array (2 marks)

SECTION B ANSWER ANY THREE QUESTIONS

QUESTION TWO (20 Marks)

a) Identify the error and rewrite the program# include <stdio.h></stdio.h>main	[4 marks]
<pre>Integer A,b, sum; printf ("ENTER VALUE FOR A; ") scanf ("%d",\$a); printf(ENTER VALUE FOR B;"); scanf("%d",&b); sum=a+b printf("Sum Of Given Two Numbers are %d" Sum); } }</pre>	
b) Write a c language program to read a number and find whether the odd.	given number is even or [5 marks]
c) Explain the steps involved in executing a C program	[4 marks]
d) . Explain the structure of a C++ program	[5 marks]
e) What is the function of Cin and Cout in C++	(2 marks)
QUESTION THREE (20 Marks)	
a) . Using case statement, write a C++ or C program to display the day d Choice entered by the user from the key board	epending on the [6 marks]
b) Discuss the C character set giving out examples in each case.	[4 marks]
c) Describe the class structure	[4 marks]

QUESTION FOUR (20 Marks)

(ii) Describe four advantages of using pointers

d) (i) What is a Pointer?

a) (i) What is variable.	[1 marks]
(ii) What are the rules followed when declaring it.	[3 marks]

[2 marks]

[4 marks

b) Differentiate the following: (i) Compiler	
(ii)Translator	[2 marks]
c) Discuss any three advantages for using functions in a program	[3 marks]
d) Describe the following functions. (i) Call by value (ii) Call by reference (iii) Inline function	[6 marks]
e) Write a C++ program to calculate the area of triangle	[5 marks]
QUESTION FIVE (20 Marks)	
a) (i) What is inheritance?(ii) Discuss any Two types of inheritance available in C++.	[1marks] [4 marks]
b) Write a C++ program to find the sum of first 100 natural Numbers Statement	using for loop [4 marks]
c. Discuss both the primary and derived data types used in C.	(5 marks)
d. Explain the following terms:- i).Global variable ii).Object	
Iii) Encapsulation	
Iv) Derived class	(4 marks)
e. Explain any two logical operators used in C++	[2 marks]