Student ID Student Seat Numb Time Allowed	: per :					
	oer :					
Time Allowed						
Time Allowed : 30 minutes						
Question 1: What is the ou	tput of the fo	llowing program?	? (1 x 6 <i>marks</i>).			
(1) int x = 0; x>0?x++:x; cout << "x is [" << x << "]"; (2) double a = 3.1415927; cout<< int(a*1000);		if((x==0) (y=3)); cout<< y; (5) int x,y; x = 30;		×	(6) int x,y; x = 30; y = 10; if(x >= y) x = x + 10; else	
(3) int x=0, y=0; if((x=0) && (y=3)); cout<< y;		y = 10; if(x < y); y = y cout<< y;			x = x - 10; y = x + 10; sout < y;	
Your Answers:				_		
(1) x is [-1]					(2) 3141	
(1) x is [-1] (3) 0	(4) 0	(Select exactly C	(5) 20 ONE choice for eac	h guestion).	(6) 50	
(1) x is [-1] (3) 0 Question 2: Multiple-Choice	e Questions	can be represent	ONE choice for eac		(6) 50	
(1) x is [-1] (3) 0 Question 2 : Multiple-Choice 1) What is the largest integer (A) 2 ³²	e Questions er value that	can be represent	ONE choice for eac		(6) 50 (1 x 4 <i>marks</i>).	
(1) x is [-1] (3) 0 Question 2: Multiple-Choice 1) What is the largest integer (A) 2 ³²	e Questions er value that	can be represent - 1 cout< <int ('b')?<="" td=""><td>ONE choice for eac</td><td></td><td>(6) 50 (1 x 4 <i>marks</i>).</td></int>	ONE choice for eac		(6) 50 (1 x 4 <i>marks</i>).	
(1) x is [-1] (3) 0 Question 2: Multiple-Choice 1) What is the largest intege (A) 2 ³² 2) What is output of the follow (A) 0	e Questions er value that (B) 2 ³² owing code: (B) 25	can be represent - 1 cout< <int ('b')?<="" td=""><td>ONE choice for each ted by an int variable (C) 2³¹</td><td></td><td>(6) 50 (1 x 4 <i>marks</i>). (D) 2³¹ – 1</td></int>	ONE choice for each ted by an int variable (C) 2 ³¹		(6) 50 (1 x 4 <i>marks</i>). (D) 2 ³¹ – 1	
(1) x is [-1] (3) 0 Question 2: Multiple-Choice 1) What is the largest intege (A) 2 ³² 2) What is output of the follow (A) 0	e Questions er value that (B) 2 ³² owing code: (B) 25	can be represent - 1 cout< <int ('b')?<="" td=""><td>ONE choice for each ted by an int variable (C) 2³¹</td><td></td><td>(6) 50 (1 x 4 <i>marks</i>). (D) 2³¹ – 1</td></int>	ONE choice for each ted by an int variable (C) 2 ³¹		(6) 50 (1 x 4 <i>marks</i>). (D) 2 ³¹ – 1	
(1) x is [-1] (3) 0 Question 2: Multiple-Choice 1) What is the largest integer (A) 2 ³² 2) What is output of the follor (A) 0 3) What is output of the follor (A) 0.5 4) Let x denote a variable, years	e Questions er value that (B) 2 ³² owing code: (B) 25 owing code: (B) 0 what is the c	can be represent - 1 cout< <int ('b')?="" 2?<="" cout<<1="" th=""><th>ONE choice for each ted by an int variable (C) 2³¹ (C) 66</th><th>ole?</th><th>(6) 50 (1 x 4 marks). (D) 2³¹ – 1 (D) 278</th></int>	ONE choice for each ted by an int variable (C) 2 ³¹ (C) 66	ole?	(6) 50 (1 x 4 marks). (D) 2 ³¹ – 1 (D) 278	
(1) x is [-1] (3) 0 Question 2: Multiple-Choice 1) What is the largest integer (A) 2 ³² 2) What is output of the follow (A) 0 3) What is output of the follow (A) 0.5	e Questions er value that (B) 2 ³² owing code: (B) 25 owing code: (B) 0 what is the c than 256"?	can be represent - 1 cout< <int ('b')?="" 2?<="" cout<<1="" td=""><td>ONE choice for each ted by an int variable (C) 2³¹ (C) 66</td><td>ole?</td><td>(6) 50 (1 x 4 marks). (D) 2³¹ – 1 (D) 278</td></int>	ONE choice for each ted by an int variable (C) 2 ³¹ (C) 66	ole?	(6) 50 (1 x 4 marks). (D) 2 ³¹ – 1 (D) 278	
(1) x is [-1] (3) 0 Question 2: Multiple-Choice 1) What is the largest integer (A) 2 ³² 2) What is output of the follor (A) 0 3) What is output of the follor (A) 0.5 4) Let x denote a variable, we equal to 0 and x is smaller.	e Questions er value that (B) 2 ³² owing code: (B) 25 owing code: (B) 0 what is the c than 256"?	can be represent - 1 cout< <int ('b')?="" 2?="" c++="" cout<<1="" express<="" orrect="" td=""><td>ONE choice for each ted by an int variable (C) 2³¹ (C) 66 (C) 1 ession for the follow</td><td>ole?</td><td>(6) 50 (1 x 4 marks). (D) 2³¹ - 1 (D) 278 (D) 2 ion: "x is larger than or</td></int>	ONE choice for each ted by an int variable (C) 2 ³¹ (C) 66 (C) 1 ession for the follow	ole?	(6) 50 (1 x 4 marks). (D) 2 ³¹ - 1 (D) 278 (D) 2 ion: "x is larger than or	

Question 3: The following program outputs the **larger** user input (x and y). Some code contains syntax errors. Write the correct codes in the right column. (Hints: Each line contains at most one error. Marks will be deduced for incorrect attempts). (7 marks).

Line number	Program Code	Correct Code
1		
2		#include <iostream></iostream>
3	namespace std;	using
4	void main	()
5	{	
6	int x,y	;
7	cin< <x<<y;< td=""><td>cin>>x>>y;</td></x<<y;<>	cin>>x>>y;
8	if(x <y)< td=""><td></td></y)<>	
9	cout< <x<<endl;< td=""><td>cout<<y<<endl; credit<="" extra="" td=""></y<<endl;></td></x<<endl;<>	cout< <y<<endl; credit<="" extra="" td=""></y<<endl;>
10	else;	else
11	cout< <y<<endl;< td=""><td>cout<<x<<endl; credit<="" extra="" td=""></x<<endl;></td></y<<endl;<>	cout< <x<<endl; credit<="" extra="" td=""></x<<endl;>
12		}
13		

Question 4 (5 marks).

Complete the following program that converts a student's mark to the corresponding grade. The mark is obtained from user input (via *cin*) and stored in an int variable named *mark*. If *mark* is larger than 80, assign character 'A' to variable *grade*; if *mark* is between 61 to 80 (larger than or equal to 61 but smaller than or equal to 80), assign character 'B' to variable *grade*; if *mark* is between 51 to 60, assign character 'C' to variable *grade*; if *mark* is smaller than or equal to 50, assign character 'F' to variable *grade*.

```
void main
{
    int mark;
    char grade;

    Cin>>mark;
    if(mark>80)
        grade='A';
    else if(mark>60)
        grade='B';
    else if(mark>50)
        grade='C';
    else
        grade='F';

    cout<<grade<<endl;
}</pre>
```