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Midterm Exam II At Started: Oct 27 at 5:04pm **Quiz Instructions**

Question 2

Question 3

public class A{

0 20 25 30

0 20 25

public static void main(String[]args) {

for(int i = 20; i < 30; i = i + 5)

20 21 22 23 24 25 26 27 28 29

20 21 22 23 24 25 26 27 28 29 30

The output of the following program is

public class D{

System.out.print(i + " ");

Notes and scratch papers are allowed.

Questions

② Question 1

② Question 2

? Question 3

? Question 4

② Question 5

② Question 6

② Question 7

? Question 8

Time Running: Hide Time

Attempt due: Oct 27 at 6:20pm

1 Hour, 14 Minutes, 20 Seconds

Question 1 20 pts Consider the following code snippet. int input=5; if (input>0) while(input!=0) if (input%2==1)input--; else{ input=input/2; System.out.println("halves the input"); System.out.println("input is " + input); a. (10 points) Using only spaces and line breaks, reformat the code snippet to make the algebraic operations, assignments, comparisons, and the control flow easier to understand. b. (5 points) Use braces, { and }, to further clarify the code. c. (5 points) What does the code print on screen? Edit View Insert Format Tools Table $\mathsf{B} \quad I \quad \underline{\cup} \quad \underline{\mathsf{A}} \vee \ \underline{\mathscr{D}} \vee \ \mathsf{T}^2 \vee | \quad \vdots$ 12pt ∨ Paragraph ∨

① words </> ::

10 pts

20 pts

Predict the output of the following program: public class C{ public static void main(String[]args) { int i; int j; for(i = 0; i < 4; i++){ for(j = i; j < 4 + i; j++) System.out.print("*"); System.out.println(); Edit View Insert Format Tools Table $\mathsf{B} \quad I \quad \underline{\cup} \quad \underline{\mathsf{A}} \vee \ \underline{\mathscr{D}} \vee \ \mathsf{T}^2 \vee | \quad \vdots$ 12pt ∨ Paragraph ∨ **★** 0 words </> ✓ **★**

Complete the following Java program so that it checks the value of integer to see if it is between

5 and 20 (including 5 and 20). While is less than 5 or is greater than 20, it must keep asking the

user to re-enter a new value for using keyboard. At the end, the program needs to calculate and

print the square root of on the screen. import java.util.Scanner; public class MonthName { public static void main(String[]args) { Scanner s = new Scanner(System.in); int i = s.nextInt(); //Your code comes here... Edit View Insert Format Tools Table $\mathsf{B} \quad I \quad \underline{\cup} \quad \underline{\mathsf{A}} \vee \quad \underline{\mathscr{D}} \vee \quad \mathsf{T}^2 \vee \qquad \vdots$ 12pt ∨ Paragraph ∨ **★** 0 words </> ✓ **★ Question 4** 10 pts Predict the output of the following program:

Question 5 10 pts The output of the following program is public class B{ public static void main(String[]args) { int i = 0; while (i < 12) { i++; System.out.print("B"); if (i == 2 && i == 4) continue; if (i == 6) break; System.out.print("E"); Question 6 10 pts

public static void main(String[]args) { String data = "monarchy"; int i; for(i = data.length() - 1; i >=0; i--){ switch(data.charAt(i)){ case 'a': System.out.print("X"); break; case 'h': System.out.print("Y"); break; default: System.out.print("Z"); Question 7 10 pts Predict the output of the following program: public class E{ public static void main(String[]args) {

int[] numbers = {5, 6, 7, 8, 1, 2}; for(int i = numbers.length - 1; i > -1; i -= 2){ System.out.print(numbers[i]); **Question 8** 10 pts The output of the following program is public class F{ public static void main(String[]args) { int[] number = {6, 5, 4, 3, 9, 8, 7, 2, 1, 0}; int i;

for(i = 1; i <= number.length; i++)</pre>

System.out.print(",");

System.out.print(number [i-1]);

if(i % 4 != 0)

else

Quiz saved at 5:05pm Submit Quiz