

BABCOCK UNIVERSITY

ILISAN-REMO, OGUN STATE, NIGERIA.

SCHOOL OF COMPUTING AND ENGINEERING SCIENCES

DEPARTMENT OF SOFTWARE ENGINEERING

COURSE: Introduction to Programming in C (COSC111)

1st Semester 2021.2022 Session

CLASS TEST (GUIDE) Date: 16-03-2022

**SECTION A**

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| 1. What is the associativity of equality sign (=)?   1. left to right (b) right to left   (c) none of the above (d) any of a and b | 2. Which one of the following is not a derived data type in C:  (a) double (b) array  (c) structure (d) enum |
| 3. What is the output of the flowing code chunk:  //using tenary operator  int a = 30;  int b = 20;  printf("%d", (a < b? a : b));  (a) 30 (b) 20 (c) 50 (d) No | 4. Assuming a variable f has been initialized to 5, which of the following statements sets g to 0?  (a) if(f > 6 || f == 5) g = 0;  (b) if(f < 3 || f > 4) g = 0;  (c) if(f >= 0 || f < 2) g = 0;  (d) All of the above statements set g to 0 |
| 5. Assuming the variable **score** has been assigned the value 9, which of the following statements displays PAN?  (a) if(score <= 9) printf("PAN");  (b) if(score > 9)**;** printf("PAN");  (c) if(score > 0)**;** printf("PAN");  (d) All of the mentioned displayed PAN. | 6. If a discount of 5% is given for buying mayonnaise, what is the logic for amount paid:  (a) amtPaid = totalCost – 5 \* totalCost  (b) amtPaid = totalCost – 0.5 \* totalCost  (c) amtPaid = totalCost – 0.05 \* totalCost  (d) amtPaid = totalCost – 5 / totalCost |
| 7. Consider the following code chunk and find the value of quotient:  int dividend, divisor, quotient;  dividend = 7;  divisor = 2;  quotient = dividend / divisor;  (a) 3.5 (b) 3.0 (c) 3 (d) 3.50 | 8. Error as a result of wrong sequence of instructions is termed:…………….  (a) syntax error (b) exception error  (c) logic error (d) run-time error |
| **9.** How many times does the following loop run?  for (j = 0; j <= 10; j++){…}  (a) 10 (b) 11 (c) 9 (d) 1 | 10. What is wrong with the following statement:  **int long = 700;** |

**SOLUTION SECTION A:** //**5 Marks (1/2 mark each)**

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| 1 | B |
| 2 | A |
| 3 | B |
| 4 | D |
| 5 | D |
| 6 | C |
| 7 | C |
| 8 | C |
| 9 | B |
| 10 | **long** is a keyword |

**SECTION B**

1. Consider the following code and debug for successful compilation:

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| 1. //Program on test for compilation error skills 2. **#include <iostream> //<stdio.h> 1 Mark** 3. **int main()** 4. **{** 5. **int n;** 6. **scanf("%d", n); //&n 1 Mark** 7. **if(n%2= = 0);** 8. **{ //1 Mark for %d, and 1 Mark for , n** 9. **printf("\t The result:= %f , n");// printf("\t The result:= %d", n);** 10. **}** 11. **else printf("\n The result is not:= n"); // printf("\n The result is not:= %d", n); 1 Mark** |

1. Write a program to find the sum of even numbers from first 10 positive integers

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| 1. /\*program to find the sum of even numbers between 1 and 10\*/ 2. #include <stdio.h> 3. int main() 4. { 5. int i; 6. int sumEven=0; //**1 Mark** 7. for(i=1;i<=10;++i) //**1 Mark** 8. { 9. if(i%2==0) //**1 Mark** 10. { 11. sumEven=sumEven+i; //**1 Mark** 12. } 13. }//end of for 14. printf("\nThe sum of Even of first 10 integers =%d",sumEven); //**1 Mark** 15. return 0; 16. } |