

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
IS 136 PROGRAMMING IN C
TEST I

A. Assuming the declaration and relevant files included, give the output for the following codes

```
1. main() { int k=0, num[7] = {1,2,3,4,5,6,7}; while(k<7) printf("%d ", 2*num[k]); k++;
2. printf("%d\n", 2*2);
3. main() { int ret = 4; int k = 2; printf("There is a problem? %d\n", 2*ret); }
4. main() { char cityplayer[] = "Mario 2"; char manoplayer[] = "Mario 2";
printf("Cityplayer: %s\n", cityplayer); printf("Manoplayer: %s\n", manoplayer);
printf("Size: %d", strlen(cityplayer)); printf("Manoplayer: %s\n", manoplayer); }
```

B. Provide code fragments

1. In a need to define a function named shule which takes in, as parameters, age of type integer and height of type float. Write the function header, if it only returns a float type expression
2. Declare a multi-dimensional array named matunda of type float with seven columns and eleven rows

C. With reference to line numbers, identify syntax errors from the following program

```
1. #include<stdio.h>
2. int product(int a, int b){
3. int product = a*b;
4. return product
5. }
6. main{
7. float num, num2;
8. printf("Number: ");
9. scanf("%d", &num);
10. printf("Number 2: ");
11. scanf("%d", &num2);
12. printf("Product %d X %d = %d\n", num, num2, product(&num, &num2));
13. }
```

D. Match the items in Column A with those in Column B

1. Compile	A. Source code (specific) to executable (generic)
2. Data types	B. Amount of memory required, permissible range and prompting users
3. strcmp	C. Executable to source code
4. do .. while loop	D. Amount of memory required, permissible range and list operations
	E. Returns 0 if the first string was greater than the second,
	F. At least one iteration will be executed
	G. Source code (generic) to executable (specific)
	H. Returns 1 if the first string was greater than the second,
	I. Permissible range, amount of memory required possible operation
	J. Exactly the same as while loop