Chapter 10	
Roll 2102024 Reg 10151	
MULTIPLE CHOICE	
10.1 (d) All of the above	words requiry. Indooring
10.2 (d) All of the above	Contract Con
10.3 (d) All of the above	
10.4 (9) External	
10.5 (d) Both 1 and 2	
10.6 (c) A compiler error	is generated for
the mismatch,	
10.7 (d) AU of the above	
REVIEW QUESTIONS	
10.1 (a) True	(w) False
(b) False	W True
(c) False	(m) True
(d) False	(n) True
(e) True	(0) Filse
(f) True	(P) True
(q) False	(a) True
(n) True	(7) False (5) True
(i) True	(#) True
JI False	Inve

- 10.2 on actual parameters
- (b) variable mames
- (c) function
- (q) *
- (e) int
- (1) recursive
- 10) local variable on automostic variable
- (n) Scope
- (i) static variable
- (1) automatic
- 10.3 The main was a user defined function.

 But it has some cases like every c
 file must have one main. And the
 program itself stard executing from main.
- 10.4 Two types of function for passing parameter is colling by value or reference. For pass by reference I use it when I don't need to change the original value Otherwise I use pass by reference.

10.5 Prototyping also known as function declaration which is a method forz specifying the function. It allows the compiler to perform error checking and helps to define and call the function from anywhere in the file.

10.6(a) Actual and formal arguments. Actual arguments are used while colling a function and formal argument is used while defining a functions declaration.

(b) & operator and * operator: & operator is used to get the memorry address of a variable. Where * is used to get the value from a rendary memory address.

(c) Global and local variables: Global variables are declarced outside all functions and can be used from anywhere. On the other hand local variables can be used in a certain block or a function. They have a local scope.

(d) Automatic and static variables: Automatic variables are also known as local variables. They are used for temportory storage. On the other hand static variables retain their value between function and

(e) Scope and visibility of variables: Scope

referes to the region of a program where a vartiable is recognized. Where the visibility refers to whether it can be referenced from a specific location.

- 10.7 (a) Compiler error
- (b) Compiler envor

 - (c) Compiler ention.
 - (e) Compillation entroit.

- (a) Invalid. Because parrenthesis is rused in the arrgument.
- (b) Involid. Semicolon missing.
 (c) Inadid. Data type not specified.
- (d) Invalid. Duplicate use of woid.
- (e) Invalid. Data type forz one parciable not specified.
- (f) Invalid. No return type and arguments data type.
 - (9) Invalid. Address of bis not a variable.
- 10.9 (a) Invalid. Placing of the end not allowed
 - (b) Invalid. Arithmetic operation on argument.
 - (e) Invalid. Integers in the originment.
 - (d) Invalid. Wrong use of semicolon in the argument,
- (e) Invalid. Data type not declared for y.
- (2) No return type
- (8) Invalid. Address early be a variable.

00.10 (6) (4) 0 10,11 (For int Airide double divide (flood n, flood o): 5,000000 6)4,500000 100

7 0

consider contract sytat, function we have to consider contract sytat, function name partenthesis, argument, return value scope and proper contest like definition and declaration position.

10.16 white passing pointer variable we have to use # prefix in the formal argument and we must send the address in the actual parameter on function calling,

10.17 The rules to consider while passing array includes array size array notation. We must pass the array as memory address of first element. And on the formal parameter we should use [] to receive.

10.18 Passing the gloabal variable to a function will create unexpected behavior like Function will create it's own scope. This may lead to a much more complex problems.

DEBUGGING

^{10.1 (}a) This function cannot neturin, as written in the pletimition. So reduring won't work.

- (b) we must return something from this function, int abe (int or, int to)
- Hetheren a; (c) Wrong returen type. In the definition it is told to recture int but returning double.
- (d) correct
- (e) It should return an integer. Not empty.
- 10.2 (a) Return type specifying is not required.
- (b) Void in the arranment list isht required.
 (c) We can't declare and send as arranment.
- (d) Valid.
- (e) Valid.

INTERVIEW QUESTIONS

10.1 At is not possible to execute instruction after the main has ended,

of planner Andrew Site

10.2 Forzmal arguments are declared in function prototype ora definition: on the other hand actual parameters are the values passed to the function. It is used while calling the function.

10.3 call by value is a mechanism where on copy of the variables are send. On the other hand, call by reference send the memory address of a variable.

10.4 int ged (int a, int b)

if (b == 0)return a;

else

return acd (b, a > b);

return acd (b, a > b);

10.5 Comma operator is used to seperate multiple expressions or variables in a statement.

10.6 To apply green color, we have to write,

printf ("\033[0; 32n Hello World \033[0m13;

10.7 The default return type of a function is int.