

## MIDTERM EXAMINATION Spring 2010

**Question No: 1 ( Marks: 1 ) - Please choose one**

In order to get 256 from the number 2568 we divide this number by 10 and take,

- ▶ Its remainder
- ▶ The number
- ▶ **Its quotient**
- ▶ Its divisor

**Question No: 2 ( Marks: 1 ) - Please choose one**

The correct syntax of do-while loop is,

- ▶ (condition ) while; do { statements; };
- ▶ { statements; } do-while ();
- ▶ while(condition); do { statements; };
- ▶ **do { statements; } while (condition);**

**Question No: 3 ( Marks: 1 ) - Please choose one**

Which of the following function(s) is/are included in **stdlib.h** header file?

- ▶ double atof(const char \*nptr)
- ▶ int atoi(const char \*nptr)
- ▶ char \*strcpy ( char \*s1, const char \*s2)
- ▶ **1 and 2 only (Pg 191)**

**Question No: 4 ( Marks: 1 ) - Please choose one**

If the break statement is missed in switch statement then,

- ▶ The compiler will give error
- ▶ **This may cause a logical error (Pg 76)**
- ▶ No effect on program
- ▶ Program stops its execution

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

**Question No: 5 (Marks: 1) - Please choose one**

The data type before a function name represents its,

► **Return Type (Pg 499)**

► Function data

► Function arguments

► Function name

**Question No: 6 (Marks: 1) - Please choose one**

Member function tellp() returns the current location of the \_\_\_\_\_ pointer.

► tellp()

► write()

► seekg()

► **get() (Pg 215)**

**Question No: 7 (Marks: 1) - Please choose one**

What does  $5 | 6$ , evaluate to in decimal where '|' is bitwise OR operator?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ► 3

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ► 4

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ► 5

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ► **7**

$5 | 6 =$

**0 1 0 1**

**0 1 1 0**

-----

**0 1 1 1 = 7**

**Question No: 8 (Marks: 1) - Please choose one**

\_\_\_\_\_ C is widely known as development language of \_\_\_\_\_ operating system.

► Linux

► Windows

► **Unix (Pg 12)**

► Mac OS

**Question No: 9 (Marks: 1) - Please choose one**

\_\_\_\_\_ What will be the result of arithmetic expression  $6 + 27/3 * 3$ ?

► 33

► 45

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

**Question No: 10 (Marks: 1) - Please choose one**

How many bytes are occupied by declaring following array of characters?

**char str[] = "programming";**

- 10
- 11
- **12**
- 13

**Question No: 11 (Marks: 1) - Please choose one**

What will be the correct syntax for initialization of pointer *ptr* with string "programming"?

- char ptr = 'programming' ;
- **char \*ptr = "programming" ;**
- char \*ptr = 'programming' ;
- \*ptr = "programming" ;

pg 166

array element in each array initialized with a single character enclosed in single quote.

pg 21

While assigning a character value to a char type variable single quotes are used around the character as 'a'.

**Question No: 12 (Marks: 1) - Please choose one**

What will be the result of expression  $x \% 2$ , if  $x = 7$ ?

- **1**
- 3
- 7
- 2

**Question No: 13 (Marks: 1) - Please choose one**

UNIX has been developed in \_\_\_\_\_ language.

- **C (pg 12)**
- JAVA
- B
- FORTRAN

**Question No: 14 (Marks: 1) - Please choose one**

Declaring structures does not mean that memory is allocated.

- **True (Pg 229)**
- False

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |



**Question No: 3 ( Marks: 1 ) - Please choose one**

The condition in while loop may contain logical expression but not relational expression.

- (a) True
- (b) False**

**Question No: 4 ( Marks: 1 ) - Please choose one**

Searching is easier when an array is already sorted

- (a) True**
- (b) False

**Question No: 5 ( Marks: 1 ) - Please choose one**

If an array has 100 elements, what is allowable range of subscripts?

- (a) 0 - 99**
- (b) 1 - 99
- (c) 0 - 100
- (d) 1 - 100

**Question No: 6 ( Marks: 1 ) - Please choose one**

What will be the value of 'a' and 'b' after executing the following statements?

a = 3;  
b = a++;

- (a) 3, 4
- (b) 4, 4
- (c) 3, 3**
- (d) 4, 3

**Question No: 7 ( Marks: 1 ) - Please choose one**

What will be the correct syntax to initialize all elements of two-dimensional array to value 0?

- (a) `int arr[2][3] = {0,0} ;`
- (b) `int arr[2][3] = {{0},{0}} ;`**
- (c) `int arr[2][3] = {0},{0} ;`
- (d) `int arr[2][3] = {0} ;`

**Question No: 8 ( Marks: 1 ) - Please choose one**

Which of the following function returns the size of a string variable?

- (a) `strlen()`
- (b) `stringlen()`
- (c) `strlen()`**
- (d) `strLength()`

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

When applied to a character array, the strlen function returns the length of the string stored there,

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

not its allocated size.

<http://www.gnu.org/s/hello/manual/libc/String-Length.html>

**Question No: 9 ( Marks: 1 ) - Please choose one**

What will be the range of numbers generated by function `rand () % 9`?

- (a) 0 to 9
- (b) 1 to 9
- (c) 0 to 8**
- (d) 1 to 8

**Question No: 11 ( Marks: 1 ) - Please choose one**

Computer can understand only machine language code.

- (c) True**
- (d) False

**Question No: 13 ( Marks: 1 ) - Please choose one**

What does  $5 \wedge 6$ , evaluate to in decimal where '^' is Exclusive OR operator?

- (a) True
- (b) False**

**Detail:-**

It mean

$5 = 0101$

$6 = 0110$

$5 \wedge 6 = 0011$

If both input is same then the output is 0 and if different then output is 1

**Question No: 14 ( Marks: 1 ) - Please choose one**

If the file is not properly closed in the program, the program\_\_\_\_\_.

- (a) Terminate normally
- (b) Indicate Runtime error
- (c) Indicate Compile time error
- (d) Crashes**

**Eventually run out of file handles and/or memory space and crash.)**

<http://www.codingunit.com/c-tutorial-file-io-using-text-files>

**Question No: 15 ( Marks: 1 ) - Please choose one**

Which of the following header file include string conversion functions?

- (a) `string.h`
- (b) `stdlib.h` (Pg 190)**
- (c) `ctype.h`
- (d) `sconvert.h`

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |



## MIDTERM EXAMINATION 2009

**Question No: 1 ( Marks: 1 ) - Please choose one**

A precise sequence of steps to solve a problem is called

- Statement
- **Program**
- Utility
- Routine

**Question No: 2 ( Marks: 1 ) - Please choose one**

The Compiler of C language is written in

- Java Language
- UNIX
- FORTRON Language
- **C Language**

**Question No: 3 ( Marks: 1 ) - Please choose one**

Initialization of variable at the time of definition is,

- Must
- Necessary
- **Good Programming**
- None of the given options

**Question No: 4 ( Marks: 1 ) - Please choose one**

In if structure the block of statements is executed only,

- When the condition is false
- When it contain arithmetic operators
- When it contain logical operators
- **When the condition is true**

**Question No: 6 ( Marks: 1 ) - Please choose one**

Dealing with structures and functions passing by reference is the most economical method

- **True**
- False

**Question No: 7 ( Marks: 1 ) - Please choose one**

Pointer is a variable which store,

- Data
- **Memory Address**
- Data Type
- Values

**Question No: 8 ( Marks: 1 ) - Please choose one**

Preprocessor program perform its function before \_\_\_\_\_ phase takes place.

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

➤ Editing

|                       |  |  |
|-----------------------|--|--|
| <b>VU APEX CAMPUS</b> | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| <b>Contact Us:</b>    | <b>0322-8877744</b>                              |  |

- Linking
- **Compiling**
- Loading

**Question No: 9 ( Marks: 1 ) - Please choose one**

Which of the following can not be a variable name?

- area
- \_area
- **10area**
- area2

**Question No: 10 ( Marks: 1 ) - Please choose one**

Which looping process is best, when the number of iterations is known?

- **for**
- while
- do-while
- all looping processes require that the iterations be known
- 

**Question No: 11 ( Marks: 1 ) - Please choose one**

Which character is inserted at the end of string to indicate the end of string?

- new line
- tab
- **null**
- carriage return

**Question No: 13 ( Marks: 1 ) - Please choose one**

Which of the following header file defines the **rand()** function?

- iostream.h
- conio.h
- **stdlib.h**
- stdio.h

**Question No: 14 ( Marks: 1 ) - Please choose one**

Commenting the code \_\_\_\_\_

- **Makes a program easy to understand for others.**
- Make programs heavy, i.e. more space is needed for executable.
- Makes it difficult to compile
- All of the given options.

**Question No: 15 ( Marks: 1 ) - Please choose one**

What's wrong with this for loop?

for (int k = 2, k <=12, k++)

- the increment should always be ++k
- the variable must always be the letter i when using a for loop
- there should be a semicolon at the end of the statement

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

➤ the commas should be semicolons

|                       |   |   |
|-----------------------|---|---|
| <b>VU APEX CAMPUS</b> | <b><a href="http://vuapex.com.pk">vuapex.com.pk</a></b> | <b><a href="http://vuapex.pk">vuapex.pk</a></b> |
| <b>Contact Us:</b>    | <b>0322-8877744</b>                                     |   |

**Question No: 16 ( Marks: 1 ) - Please choose one**

For which array, the size of the array should be one more than the number of elements in an array?

- int
- double
- float
- **char**

**MIDTERM EXAMINATION  
2009**

**Question No: 1 ( Marks: 1 ) - Please choose one**

The function of cin is

- ▶ To display message
- ▶ **To read data from keyboard**
- ▶ To display output on the screen
- ▶ To send data to printer

**Question No: 2 ( Marks: 1 ) - Please choose one**

In C/C++ language the header file which is used to perform useful task and manipulation of character data is

- ▶ cplex.h
- ▶ **ctype.h (Pg 188)**
- ▶ stdio.h
- ▶ delay.h

**Question No: 3 ( Marks: 1 ) - Please choose one**

How many parameter(s) function getline() takes?

- ▶ 0
- ▶ 1
- ▶ 2
- ▶ **3**

The member function getline() also takes three parameters: the buffer to fill, one more than the maximum number of characters to get, and the termination character. getline() functions exactly like get() does with these parameters, except getline() throws away the terminating character.

<http://newdata.box.sk/bx/c/htm/ch16.htm>

.

**Question No: 4 ( Marks: 1 ) - Please choose one**

Word processor is

- ▶ Operating system
- ▶ **Application software**

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

► Device driver

|                       |  |  |
|-----------------------|--|--|
| <b>VU APEX CAMPUS</b> | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| <b>Contact Us:</b>    | <b>0322-8877744</b>                              |  |

► Utility software

**Question No: 5 ( Marks: 1 ) - Please choose one**

**For which values of the integer \_value will the following code becomes an infinite loop?**

```
int number=1;
while (true) {
cout << number;
if (number == 3) break;
number += integer_value; }
```

► any number other than 1 or 2

► **only 0**

► only 1

► only 2

**Rational:**

**number += integer\_value .....**above line decide the fate of loop so any thing other then zero leads to value of 3 which will quite the loop. Only zero is the value which keeps the loop infinite.

**Question No: 6 ( Marks: 1 ) - Please choose one**

Each pass through a loop is called a/an

► enumeration

► **Iteration**

► culmination

► pass through

**Question No: 7 ( Marks: 1 ) - Please choose one**

A continue statement causes execution to skip to

► the return 0; statement

► the first statement after the loop

► the statements following the continue statement

► **the next iteration of the loop**

**Continue** statement is used, when at a certain stage, you don't want to execute the remaining statements inside your loop and want to go to the start of the loop.

**Question No: 8 ( Marks: 1 ) - Please choose one**

What is the correct syntax to declare an array of size 10 of int data type?

► int [10] name ;

► name[10] int ;

► **int name[10] ;**

► int name[] ;

**Question No: 9 ( Marks: 1 ) - Please choose one**

Consider the following code segment. What will the following code segment display?

```
int main(){
int age[10] = {0};
cout << age ;
```

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

}

- ▶ Values of all elements of array
- ▶ **Value of first element of array**
- ▶ Starting address of array
- ▶ Address of last array element

**Question No: 11 ( Marks: 1 ) - Please choose one**

How many bytes will the pointer *intPtr* of type *int* move in the following statement?

*intPtr* += 3 ;

- ▶ 3 bytes
- ▶ 6 bytes
- ▶ **12 bytes**
- ▶ 24 bytes

**one int is 4 bytes so  $4 \times 3 = 12$  bytes movement.**

**Question No: 12 ( Marks: 1 ) - Please choose one**

If there are  $2(n+1)$  elements in an array then what would be the number of iterations required to search a number using binary search algorithm?

- ▶ n elements
- ▶  **$(n+1)$  elements**
- ▶  $2(n+1)$  elements
- ▶  $2(n+1)$  elements

**Question No: 13 ( Marks: 1 ) - Please choose one**

Which of the following operator is used to access the value of variable pointed to by a pointer?

- ▶ **\* operator**
- ▶ -> operator
- ▶ && operator
- ▶ & operator

**Question No: 14 ( Marks: 1 ) - Please choose one**

The \_\_\_\_\_ statement interrupts the flow of control.

- ▶ switch
- ▶ continue
- ▶ goto
- ▶ **break**

**Question No: 15 ( Marks: 1 ) - Please choose one**

Analysis is the----- step in designing a program

- ▶ Last
- ▶ Middle
- ▶ Post Design
- ▶ **First**

**Analysis will be always followed by design and then code.**

**Question No: 16 ( Marks: 1 ) - Please choose one**

Paying attention to detail in designing a program is \_\_\_\_\_

- ▶ Time consuming

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |



- ▶ Redundant
- ▶ **Necessary**
- ▶ Somewhat Good

In programming, the details matter. This is a very important skill. A good programmer always analyzes the problem statement very carefully and in detail. You should pay attention to all the aspects of the problem.

## MIDTERM EXAMINATION Spring 2009

**Question No: 1 ( Marks: 1 ) - Please choose one\_\_\_\_\_**

There are mainly ----- types of software

- ▶ **Two**
- ▶ Three
- ▶ Four
- ▶ Five

Software is categorized into two main categories

- System Software
- Application Software

**Question No: 2 ( Marks: 1 ) - Please choose one\_\_\_\_\_**

In C/C++ the #include is called,

- ▶ Header file
- ▶ **Preprocessor Directive (Pg 15)**
- ▶ Statement
- ▶ Function

**Question No: 3 ( Marks: 1 ) - Please choose one\_\_\_\_\_**

&& is -----operator.

- ▶ An arithmetic
- ▶ **Logical**
- ▶ Relational
- ▶ Unary

we use logical operators ( && and || ) for AND and OR respectively with relational operators.

**Question No: 4 ( Marks: 1 ) - Please choose one\_\_\_\_\_**

In flow chart, the symbol used for decision making is,

- ▶ Rectangle
- ▶ Circle
- ▶ Arrow

▶ **Diamond (Pg 51)**

[http://www.ehow.com/about\\_5081911\\_symbols-used-flowchart.html](http://www.ehow.com/about_5081911_symbols-used-flowchart.html)

**Question No: 6 ( Marks: 1 ) - Please choose one\_\_\_\_\_**

C++ views each file as a sequential stream of\_\_\_\_\_.

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

- ▶ Bits
- ▶ 0's or 1's
- ▶ Words

**Question No: 7 ( Marks: 1 ) - Please choose one**\_\_\_\_\_

If the elements of an array are already sorted then the useful search algorithm is,

- ▶ Linear search
- ▶ **Binary search (Pg 188)**
- ▶ Quick search
- ▶ Random search

**In binary search algorithm, the 'divide and conquer' strategy is applied.  
This plies only to sorted arrays in ascending or descending order.**

**Question No: 8 ( Marks: 1 ) - Please choose one**\_\_\_\_\_

The address operator (&) can be used with,

- ▶ Statement
- ▶ Expression
- ▶ **Variable**
- ▶ Constant

**Question No: 9 ( Marks: 1 ) - Please choose one**\_\_\_\_\_

When a pointer is incremented, it actually jumps the number of memory addresses

- ▶ **According to data type (Pg 160)**
- ▶ 1 byte exactly
- ▶ 1 bit exactly
- ▶ A pointer variable can not be incremented

**Question No: 11 ( Marks: 1 ) - Please choose one**\_\_\_\_\_

Call by reference mechanism should be used in a program when there is

- i. large amount of data to be passed
- ii. small amount of data to be passed
- iii. need to change the passed data
- iv. no need to change the passed data

Choose the appropriate option for the above case.

- ▶ (i) and (ii) only
- ▶ **(i) and (iii) only**
- ▶ (ii) and (iii) only
- ▶ (ii) and (iv) only

**Question No: 12 ( Marks: 1 ) - Please choose one**\_\_\_\_\_

Which of the following is the starting index of an array in C++?

- ▶ **0**
- ▶ 1
- ▶ -1
- ▶ any number

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

**Question No: 13 ( Marks: 1 ) - Please choose one\_\_\_\_\_**

The return type of a function that do not return any value must be \_\_\_\_\_

- ▶ int
- ▶ **void**
- ▶ double
- ▶ float

**Question No: 14 ( Marks: 1 ) - Please choose one\_\_\_\_\_**

Which of the following is an extension of header file?

- ▶ .exe
- ▶ .txt
- ▶ **.h**
- ▶ .c

**Question No: 15 ( Marks: 1 ) - Please choose one\_\_\_\_\_**

We want to access array in random order which approach is better?

- ▶ **Pointers**
- ▶ **Array index (Pg 176)**
- ▶ Both pointers and array index are better
- ▶ None of the given options.

**Question No: 16 ( Marks: 1 ) - Please choose one\_\_\_\_\_**

When we declare a multidimensional array the compiler store the elements of multidimensional array in the form of,

- ▶ Columns
- ▶ Rows
- ▶ **Contiguous memory location (Pg 174)**
- ▶ Matrix

## **MIDTERM EXAMINATION 2009**

**Question No: 1 ( Marks: 1 ) - Please choose one**

In C/C++ the string constant is enclosed

- ▶ In curly braces
- ▶ In small braces
- ▶ In single quotes
- ▶ **In double quotes** <http://www.lugaru.com/man/String.Constants.html>

**Question No: 2 ( Marks: 1 ) - Please choose one**

|                       |  |  |
|-----------------------|--|--|
| <b>VU APEX CAMPUS</b> | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| <b>Contact Us:</b>    | <b>0322-8877744</b>                              |  |

The size of int data type is

|                       |  |  |
|-----------------------|--|--|
| <b>VU APEX CAMPUS</b> | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| <b>Contact Us:</b>    | <b>0322-8877744</b>                              |  |

- ▶ 1 bytes
- ▶ 2 bytes
- ▶ 3 bytes
- ▶ **4 bytes (Pg 257)**

Question No: 3 ( Marks: 1 ) - Please choose one  
In Flow chart process is represented by

- ▶ **Rectangle (Pg 51)**
- ▶ Arrow symbol
- ▶ Oval
- ▶ Circle

Question No: 5 ( Marks: 1 ) - Please choose one  
When we are using const keyword with a variable x then initializing it at the time of declaration is,

- ▶ **Must**
- ▶ Optional
- ▶ Not necessary
- ▶ A syntax error

Question No: 6 ( Marks: 1 ) - Please choose one  
Which of the following is the correct way to assign an integer value 5 to element of a matrix say 'm' at second row and third column?

- ▶ **m[2][3] = 5 ;**
- ▶ m[3][2] = 5 ;
- ▶ m[1][2] = 5 ;
- ▶ m[2][3] = '5' ;

Question No: 7 ( Marks: 1 ) - Please choose one  
How many total elements must be in two-dimensional array of 3 rows and 2 columns?

- ▶ 4
- ▶ 5
- ▶ **6 (3\*2=6)**
- ▶ 7

Question No: 8 ( Marks: 1 ) - Please choose one

Which of the following is the correct statement for the following declaration?

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

const int \*ptr.

- ptr is a constant pointer
- ptr is constant integer pointer
- ptr is a constant pointer to int
- **ptr is a pointer to const int** <http://www.allinterview.com/showanswers/65662.html>

Question No: 9 ( Marks: 1 ) - Please choose one

Consider the following code segment. What will be the output of this code segment?

```
int arr[6] = {2, 3, 7, 4, 5, 6} ;  
int *ptr1 = &arr[1] ;  
int *ptr2 = &arr[4] ;  
cout << (ptr2-ptr1) ;
```

- ▶ 3
- ▶ 9
- ▶ 12
- ▶ **2**

Question No: 10 ( Marks: 1 ) - Please choose one

What will be the correct syntax to assign an array named arr of 5 elements to a pointer ptr?

- ▶ \*ptr = arr ;
- ▶ ptr = arr ;
- ▶ \*ptr = arr[5] ;
- ▶ ptr = arr[5] ;

Question No: 11 ( Marks: 1 ) - Please choose one

C is a/an\_\_\_\_\_language

- ▶ low level
- ▶ object based
- ▶ object oriented
- ▶ **function oriented** (Pg 77)

Question No: 13 ( Marks: 1 ) - Please choose one

The variables having a name, type and size are just like empty boxes.

- ▶ False
- ▶ **True**

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

Question No: 15 ( Marks: 1 ) - Please choose one

Most efficient method of dealing with structure variables is to define the structure globally

- ▶ True <http://mathbits.com/mathbits/compsci/Structures/Define.htm>
- ▶ False

Question No: 16 ( Marks: 1 ) - Please choose one

Syntax of union is identical to \_\_\_\_\_

- ▶ **Structure (pg 242)**
- ▶ Class
- ▶ Function
- ▶ None of the given options

## MIDTERM EXAMINATION

2008

Question No: 16 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ In Program

commenting the code liberally is

- ▶ **Useful.**
- ▶ Time consuming
- ▶ Not necessary

**Question :** If we want to store a string “abc” in an array str then the size of this array must be at least,

- (a) 2
- (b) 3
- (c) 4**
- (d) 5

**Question :** How many bytes will the pointer *intPtr* of type **int** move in the following statement?

**intPtr += 3 ;**

- (a) 3 bytes
- (b) 6 bytes
- (c) 12 bytes
- (d) 24 bytes

## MIDTERM EXAMINATION

2007

**Question :** The remainder (%) operator is,

- ▶ **An arithmetic operator (Pg 258)**
- ▶ A logical operator
- ▶ A relational operator

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |



► A division operator

|                       |  |  |
|-----------------------|--|--|
| <b>VU APEX CAMPUS</b> | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| <b>Contact Us:</b>    | <b>0322-8877744</b>                              |  |

**Question :When a call to function statement is encountered,**

- ▶ The control is transfer to its Prototype
- ▶ **The control is transfer to its definition**
- ▶ The compiler stop execution of whole program
- ▶ The program hangs

## **MIDTERM EXAMINATION**

### **2006**

**Question :The value of  $2*15/3*7+3*2$  is**

- 146
- 76
- 8
- 70

**Question: Carefully analyze the following lines of code and chose the correct option.**

ch1="a";

ch2='a';

- ch1 and ch2 are strings
- **ch1 is string and ch2 is character**
- ch2 is string and ch1 is character
- ch1 and ch2 are characters

**Question :The size of a double variable is**

- 2 bytes
- 4 bytes
- **8 bytes**
- 10 bytes

**The size of an int is: 4 bytes.**

**The size of a short int is: 2 bytes.**

**The size of a long int is: 4 bytes.**

**The size of a char is: 1 bytes.**

**The size of a float is: 4 bytes.**

**The size of a double is: 8 bytes.**

**Question :An array is also called**

- an array variable
- array declaration
- struct
- **constant pointer**

|                |  |  |
|----------------|--|--|
| VU APEX CAMPUS | <a href="http://vuapex.com.pk">vuapex.com.pk</a> | <a href="http://vuapex.pk">vuapex.pk</a> |
| Contact Us:    | 0322-8877744                                     |  |

|                       |   |   |
|-----------------------|---|---|
| <b>VU APEX CAMPUS</b> | <b><a href="http://vuapex.com.pk">vuapex.com.pk</a></b> | <b><a href="http://vuapex.pk">vuapex.pk</a></b> |
| <b>Contact Us:</b>    | <b>0322-8877744</b>                                     |   |