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## Certificate in Basic Accountancy with Tally 9.0

1) Where would you activate cheque printing facility?

- A) In F12 Configuration
  - B) In F11 Features**
  - C) In Company Creation
  - D) In Company Info
- 

2) Which feature enables TDS in Tally?

- A) Accounting Features
  - B) Statutory & Taxation**
  - C) Inventory Features
  - D) Configuration
- 

3) Which command is used to change the title of the report while printing?

- A) Alt + P
  - B) Ctrl + P
  - C) F11 - Features
  - D) F12 - Configuration**
- 

4) Which key is used to enable payroll?

- A) F11- Accounting Features**
  - B) F11- Inventory Feature
  - C) F11 - Statutory & Taxation
  - D) F12 - Configuration
- 

5) Which accounting group is used for creating a ledger as professional tax?

- A) Current Assets
- B) Current Liabilities**
- C) Indirect Expenses
- D) Direct Expenses

---

## Basic selling skills

1) What is the best time to judge the personality characteristics of a salesperson?

- A) at the time of recruitment
  - B) during training
  - C) while making presentations
  - D) during performance appraisal
- 

2) What is the process of identifying the potential customers termed as?

- A) Prospecting
  - B) Listing
  - C) Searching
  - D) Finding
- 

3) What should be the CORRECT order of activities while a salesman narrates the story of the product to the prospective customer?

- A) Attention, Interest, Desire, Action
  - B) Awareness, Information, Demonstration, Action
  - C) Attention, Information, Decision, Awareness
  - D) Action, Interpretation, Demonstration, Attention
- 

4) What is the objective of a post-sale call made by a salesperson?

- A) to ensure proper installation
  - B) to take the payment
  - C) to provide gifts
  - D) courtesy call
- 

5) Name the process where Salespeople first identify the potential customers and then screen out the rest.

- A) filtering
- B) screening
- C) sorting
- D) qualifying

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## Export Management

1) Which document is issued by an officer of a Vessel stating that the goods have been received on board?

- A) Cargo Arrival Notice
  - B) Mate Receipt**
  - C) Bill of Loading
  - D) Letter of Credit
- 

2) By whom is the Certificate of Export Realization issued?

- A) Reserve Bank of India
  - B) Customs Authority
  - C) Exporters self declaration
  - D) Authorized Dealer**
- 

3) When are the Drawback claims allowed?

- A) If Goods are produced or manufactured using imported materials.
  - B) If Goods exported are damaged in transit.
  - C) If value addition is negative.
  - D) If goods are manufactured in India and exported.**
- 

4) Exporter should avoid which type of Letter of Credit?

- A) Confirmed L/C
  - B) Transferable L/C
  - C) Irrevocable L/C
  - D) Revocable L/C**
- 

5) Which of the following is considered as post shipment finance given by the banks?

- A) Packing Credit
- B) Loan against export order
- C) Advance against Bills sent on Collection basis**
- D) Advance against cash Incentives

---

## Health Care Management and Organisation

1) Which managerial skill is required at all levels of management in an organization?

- A) Training skill
  - B) Technical skill
  - C) Conception skill
  - D) Human skill**
- 

2) What does DOT represent in occupational descriptions?

- A) Dictionary of Occupational Titles**
  - B) Dictionary of Occupational Therapy
  - C) Department of Occupational Treatment
  - D) Department of Occupational Trends
- 

3) What is the major future public health problem in our country?

- A) Communicable diseases
  - B) Changing technology
  - C) Non-communicable diseases**
  - D) Nutritional deficiency diseases
- 

4) Which of the following is the sustainable motivational tool?

- A) Monetary reward
  - B) Employee satisfaction
  - C) Non monetary reward**
  - D) Family satisfaction
- 

5) Which of the following should be considered while designing work space?

- A) Ergonomics**
- B) Physics
- C) Geophysics
- D) Global Warming

---

## Industrial Fire Fighting

1) Which of the following is a fixed Fire Protection System?

- A) DCP Extinguisher
  - B) CO<sub>2</sub> Extinguisher
  - C) Halon Extinguisher
  - D) Deluge System**
- 

2) Which Indian standard specifies fixed fire protection system requirements for oil industry?

- A) OISD-116**
  - B) OISD-118
  - C) OISD-105
  - D) OISD-145
- 

3) In line with OISD, what should be the minimum distance of hydrant from a storage tank?

- A) 15 Meter**
  - B) 25 Meter
  - C) 10 Meter
  - D) 20 Meter
- 

4) What should be added to riser system in case the equipments protected are exposed to extremely cold temperatures?

- A) Anti coolant
  - B) Anti freeze concentrate**
  - C) Lubricants
  - D) Warming Liquids
- 

5) What should be the minimum quantity of AFFF Type foam stored totally as per OISD Standard?

- A) 0.7 %
- B) 0.8 %
- C) 0.85 %
- D) 0.9 %**

---

## Basic Principles of Life Insurance

1) Which of the following defines the life insurance Policy?

- A) A contract of insurance upon human life
  - B) A Bilateral contract of human life
  - C) A unilateral contract of indemnity of human life
  - D) A contract of premium and annuity of human life
- 

2) Which of the following serves the basic purpose of life insurance ?

- A) To create a capital sum assured
  - B) To create security against Mortality
  - C) Financial planning
  - D) To create an investment for tax saving
- 

3) Which of the following terms is referred as reverse of life insurance?

- A) Bonus
  - B) Annuities
  - C) Premium
  - D) Installments
- 

4) Which of the following hazards arises, when the proposal for life insurance is being made with the intention to seek undue advantage through the insurance policy?

- A) Occupational Hazards
  - B) Moral Hazards
  - C) Environmental Hazards
  - D) Group Hazard
- 

5) Which of the following will be implicable , when the spread of risk premium on a uniform basis throughout the term of the policy is applied?

- A) Level premium
- B) Spread premium
- C) Basis premium
- D) Surplus premium

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## Nursing Assistant

1) Mrs. Shwetha delivers twins during the 7th month. When caring for Mrs. Shwetha's twins the nurse should :

- A) Keep them prone to prevent aspiration
  - B) Keep them in a high humidity environment**
  - C) Reduce oxygen concentration to prevent eye damage
  - D) Reduce calorie intake to decrease metabolic rate
- 

2) Station +1 indicate that the presenting part is

- A) Slightly below the ischial spines**
  - B) Slightly above the ischial spines
  - C) High in the false pelvis
  - D) On the perineum
- 

3) Where is Intracellular fluid found?

- A) Surrounding the cells
  - B) Inside the cells**
  - C) Outside the cells
  - D) In interstitial spaces
- 

4) Name the fracture where the bone has broken into several fragments.

- A) Comminuted**
  - B) Compound
  - C) Greenstick
  - D) Pathologic
- 

5) Leukoderma is due to which deficiency?

- A) Iron
- B) Vitamin .K.
- C) Melanin**
- D) Vitamin .E.

---

## Marketing Management

1) In the "Product portfolio analysis" the term Cash cows belongs to which BCG Matrix?

- A) High growing industry in a slow market share.
  - B) High market share in a slow growing industry**
  - C) Slow growing industry in a slow market share
  - D) High growing industry in a high market share.
- 

2) What is the managerial tool that builds up the relationship between desired results and variable means?

- A) Marketing plan
  - B) Marketing budget**
  - C) Market share
  - D) Marketing strategy
- 

3) What is the market that buys goods and services for producing products to sell?

- A) Consumer market
  - B) Business market**
  - C) Government market
  - D) Reseller market
- 

4) What kind of competitor is "Tang" for "Pepsi"?

- A) Close competitors**
  - B) Direct competitors
  - C) Substitute competitors
  - D) Indirect competitors
- 

5) What is the technical term for a very wide gap between expectation and actual performance in marketing a product?

- A) Pre purchase dissonance
- B) Post purchase dissonance**
- C) Mid purchase dissonance
- D) Selective purchase dissonance

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## Event Management

1) What is the CORRECT sequence of the five C's of event management?

- A) Costing-Conceptualisation-Canvassing-Customization-Carrying out
  - B) Conceptualisation-Costing-Canvassing-Customization-Carrying out**
  - C) Costing-Conceptualisation-Customization-Canvassing-Carrying out
  - D) Conceptualisation-Canvassing-Costing-Customization-Carrying out
- 

2) In which type of event category there is a possibility of the entertainment tax being waived?

- A) Competitive events
- B) Fashion events
- C) Cause-based events**
- D) Traditional events

3) Which marketing need is fulfilled when events help in rejuvenating brands during the different stages of "Product life cycle"?

- A) Focusing the target market
  - B) Market research
  - C) Sales promotion
  - D) Image building**
- 

4) Which feature of an event concept detaches the event from the constraints posed by canvassing?

- A) Event property**
  - B) Event organizers
  - C) Event vehicle
  - D) Event budgeting
- 

5) Which of the following is one of the essential needs to maintain the price competitiveness in the corporate set up of event agency?

- A) Concept variation
- B) Geographic coverage
- C) Assessing overheads**
- D) Sourcing structure

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## Hospitality Management

1) Hospitality industry had grown by how much percentage in the year 2005 - 2006?

- A) 23%
  - B) 23.20%
  - C) 23.50%
  - D) 23.70%**
- 

2) What is the forecasted number of International tourist arrival in Delhi in 2010?

- A) 18 Lakh**
  - B) 16 Lakh
  - C) 20 Lakh
  - D) 19 Lakh
- 

3) Which country in the world is most affected in terms of hospitality due to global issues?

- A) Afghanistan**
  - B) Iraq
  - C) Iran
  - D) Israel
- 

4) How many Hotels does Hilton plan to open in India along with DLF?

- A) 20**
  - B) 30
  - C) 10
  - D) 40
- 

5) Where does Starwood plan to open its 100th Hotel?

- A) India
- B) China**
- C) Bristol
- D) New York

---

## Shipping and Logistics

1) What is the latest version of the Uniform Customs and Practice for Documentary Credits?

- A) UCP500
  - B) UCP600**
  - C) UCP610
  - D) UCP700
- 

2) What would be the incoterm, if a foreign customer asks you to deliver the goods to their warehouse after import duty paid and customs cleared?

- A) DDU
  - B) DDP**
  - C) FOB
  - D) Ex-Works
- 

3) What is the maximum time limit to file the Drawback Supplementary claim?

- A) 1 Month
  - B) 3 Months
  - C) 6 Months
  - D) 12 Months**
- 

4) When you buy Machinery for your production in the month of March, you have paid the excise duty. How you will take the CENVAT credit?

- A) This month 50%, Next Month 50%**
  - B) 100% this month
  - C) 50% this month, balance 50% after 12 Months
  - D) 50% this month, balance 50% after 3 Months
- 

5) Which Drawback shipping will go to the Assistant commissioner queue in EDI?

- A) Drawback amount more than 5 Lakhs
- B) Drawback amount more than 10 Lakhs
- C) Drawback amount more than 1 Lakh**
- D) Drawback amount more than 25 thousand

## Certificate in Banking

1) Which of the following is the main function of a financial system?

- A) Flow of funds from the areas of surplus to the area of deficit
- B) Flow of funds from the areas of deficit to the areas of surplus
- C) Increment of interest rate
- D) Growth in earning over the time and expectation of the same in future

2) By which of the following methods can the Prime lending rates(PLR) be calculated?

- A) Actual cost of fund methods and Opportunity cost of fund methods
- B) Securitization Method
- C) Deprecation and Natural Methods
- D) Primary period and secondary period method

3) Name the process of buying trade debts at a discount and making profit when debt is realized and also taking over collection of trade debts at agreed price.

- A) General Lien
- B) Forfeiting
- C) factoring
- D) Mark to market

4) Unit banking refers to which of the following systems?

- A) A system with a single bank having units at different places
- B) A system with over all operations of a bank conducted from a single office
- C) A system which deals with the units of UTI
- D) A system which deals with the small scale sector

5) What is Cross selling in retail banking?

- A) selling products / services to an already existing customer or a non- competitive product of an insurance / housing company for a commission.
- B) selling of products of other private sector banks by public sector banks
- C) selling of mutual funds of their associate / subsidiary concern
- D) selling of products through agents / dealers

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## Certificate in Retail

1) Which Retail model tries to prove that innovation in retail leads to development of more retail formats rather than reducing them?

- A) Conflict Theory
  - B) Evolution Theory
  - C) Environmental Theory
  - D) Change Theory
- 

2) What does "Stores brand " refer to?

- A) To the stores
  - B) To the Location
  - C) To the private label
  - D) To the outlet
- 

3) Which technique involves the unloading of goods arriving at an RDC (regional distribution centre) from the inbound vehicle and moving to the goods receiving area?

- A) Docking
  - B) Cross Docking
  - C) Pure Cross Docking
  - D) Warehousing
- 

4) Which retail market combines Supermarket and department stores? 0

- A) Combination Stores
  - B) Hypermarket
  - C) Tetra Stores
  - D) Big Box Stores
- 

5) Tantri Stores wants to setup Ayurvedic Medicine stores in major cities. How would you want the customers to perceive Tantri Stores in Their minds?

- A) As a normal Pharmacy store
- B) As a premium Ayurvedic store
- C) Ayurvedic store that does service
- D) As a complete ayurvedic experience

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## Windows XP Operating System & Basic Computer Skills

1) How many Windows XP editions are available for different installations?

- A) 3
  - B) 4
  - C) 5**
  - D) 6
- 

2) Pick the correct statement?

- A) NTFS is more secured than FAT**
  - B) FAT is more secured than NTFS
  - C) NTFS can be converted to FAT without losing data.
  - D) FAT32 can be converted into NTFS without losing data
- 

3) How many ways can we open a Microsoft Word Document?

- A) 2
  - B) 3**
  - C) 4
  - D) 5
- 

4) What is the default value of the left margin of a page in Ms-Word?

- A) 1.25 inches**
  - B) 1.3 inches
  - C) 1.35 inches
  - D) 1.2 inches
- 

5) Which of the following shortcut key is used to select the entire row?

- A) Shift + Home
- B) Shift + End
- C) Shift + Spacebar**
- D) Shift + Tab

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## Webpage designing with HTML

1) What is the software program that enables you to view Web pages on your computer?

- A) Internet browser
  - B) Windows media player
  - C) MS Office
  - D) Windows explorer
- 

2) What is the tag to define smaller heading in a HTML page?

- A) < H1>
  - B) < H2>
  - C) < H3>
  - D) < H4>
- 

3) Where should meta tags be placed in a html document?

- A) between the < p> and < /p> tags
  - B) between the < head> and < /head> tags
  - C) between the < title> and < /title> tags
  - D) between the < div> and < /div> tags
- 

4) What is the most important factor to be considered while designing a web site?

- A) It should be very colorful.
  - B) It should be user friendly.
  - C) It should be full of graphics.
  - D) It should be scrollable.
- 

5) What is important while using font style in a web site?

- A) It should be bold.
- B) It should be readable.
- C) It should be stylish.
- D) It should be colorful.

## JavaScript and CSS

1) A web developer wants to put dynamic text into the HTML pages. Which of the following can be used to do it?

- A) JSP
- B) JHTML
- C) Javascript**
- D) HTML

2) What is the number in JavaScript which is derived by dividing a negative number by zero?

- A) negative infinity**
- B) infinity
- C) 0
- D) There is no such number

3) What is the difference between alert and document.write in JavaScript?

- A) The alert displays the message in a dialog box instead of displaying on the web page.**
- B) Both display the message in a dialog box instead of displaying on the web page.
- C) The document.write displays the message in a dialog box instead of on the web page.
- D) Both does not display the message in a dialog box instead they display on the web page.

4) In one of the scenario's user wants to take start-date as input from the user to execute a report. How can that be done using JavaScript?

- A) Using the Alert Dialog Box
- B) Using the Prompt Dialog Box**
- C) Using the Confirm Dialog Box
- D) Using the Pop-up Dialog Box

5) In one of the scenarios user wants to take some assurance from the user to commit the transaction in the system. Based on the user selection, the transaction should either be committed to DB or revoked. How can it be done using JavaScript?

- A) Using the Alert Dialog Box
- B) Using the Prompt Dialog Box
- C) Using the Confirm Dialog Box**
- D) Using the Pop-up Dialog Box

## C Programming

1) What is a string?

- A) String is a group of float numbers.
- B) String is a group of integers.
- C) String is a group of characters.**
- D) String is a group of structures.

2) Which of the following standard library function is used to receive multi-word strings?

- A) scanf()
- B) fscanf()
- C) getc()
- D) gets()**

3) FILE \*fp ;

What is FILE in the above declaration?

- A) inbuilt data type
- B) union
- C) struct**
- D) enum

4) FILE is defined in which of the following file?

- A) conio.h
- B) file.h
- C) stdio.h**
- D) ctype.h

5) What would be the output of the following program?

```
#include <stdio.h>
void main ( void )
{
    int display ( void ) ;
    int ( *ptr ) ( void ) = display ;
    int a = 1, b = 3 ;
    a += ( b = ( *ptr ) ( ) ) ;
    printf ( "%d %d", a, b ) ;
}
display ( void )
{
    return ( 3 ) ;
}
```

- A) 3 4
- B) 4 7
- C) 4 3**
- D) 4 4

---

## Engineering Drawing with AutoCAD (2D)

1) What is the plot option in layers used for?

- A) You have to select this option if you do not want to plot the contents of the layer with the drawing
  - B) You have to select this option if you want to plot the contents of the layer with the drawing
  - C) You select this option if you want to display the contents of the layer on the AutoCAD screen
  - D) You select this option if you do not want to display the contents of the layer on the AutoCAD screen
- 

2) What is the use of “LAYTRANS” COMMAND?

- A) translates a selected layer and its contents to another layer, removing the source layer from the drawing
  - B) translates a selected layer and its contents to another layer, without removing the source layer from the drawing
  - C) removes the source layer from the drawing
  - D) translates a selected properties from layer layer
- 

3) To be able to customize AutoCAD to user requirement which one of the following file can be modified?

- A) Acad.session
  - B) Acad.dwg
  - C) Acad.profile
  - D) Acad.dwt
- 

4) In autocad, which command is available to automatically recover the backup files?

- A) Backup file manager
  - B) Backup
  - C) Auto backup
  - D) Drawing recovery manager
- 

5) Which one of the following indicates the basic difference between the Isometric and Axonometric drawing?

- A) Isometric is drawn at 45 degree and axonometric is drawn at 30 degree angle.
- B) Isometric is drawn at 30 degree and axonometric is drawn at 45 degree angle.
- C) Axonometric drawing is exactly opposite of Isometric drawing
- D) Isometric drawing projected at 0 degree is called as Axonometric drawing

## C++

1) What is the output of the following code snippet?

```
#include< iostream.h >
class Static
{
    int t1;
    static int t2;
public:
    Static( int c = 0 )
    {
        t1 += c;
        t2++;
    }
    static int sample ( int p )
    {
        return ( t2 += ( 3 + p ) );
    }
    void count ( void )
    {
        cout << t2 << endl;
    }
};
int Static :: t2 = 0;
int main ()
{
    Static t3;
    cout << Static :: sample ( t3.sample ( 3 ) );
}

```

- A) 14
- B) 13
- C) 20
- D) 17**

2) Identify the overloaded functions

- A) int draw(int x, int y); int draw1(int x, int y);
- B) int draw(int x, int y); int draw(int x, int y, int z);**
- C) int draw(char x, char y); int draw(char a, char b);
- D) int greaterthan(int x, int y); boolean > (int x, int y);

3) Consider the following code snippet:

```
#include < iostream.h >
using namespace std;
class A
{
    int data;
public:
    void f(int arg) { data = arg; }
    int g() { return data; }
};
class B
{
public:
    A x;
};
int main()
{
    B obj;
    obj.x.f(20);
    obj.x.f(30);
    cout << obj.x.g() << endl;
}
```

What would be the output of the above code?

- A) 20
- B) 30**
- C) 20 30
- D) Error

4) Class A definition contains a variable by name 'privatedata' defined under Private access. Class B is privately derived class from Class A. An object of class B is declared. Which of the following is true?

- A) Class B function can access the variable privatedata.
- B) If Class B was derived publicly from class A, privatedata variables would have been accessible from Class B function
- C) Object of Class B can access the privatedata variable.
- D) Object of Class B cannot access the privatedata variable.**

5) What is the meaning of “=0” in the following code snippet?

```
#include < iostream.h>
class Sample
{
    int i ;
public :
    void virtual Display ( void ) = 0 ;
};
void main ( void )
{
    ...
}
```

- A) =0 is assigned to Display.
- B) =0 tells the compiler that the function will be a pure virtual function.**
- C) =0 tells the number of arguments to the function is zero.
- D) =0 tells that there are zero data members under the label “public”.

## Core Java

1) Given the following class, which of these are valid methods of referring to the class from outside the package com.xyz?

```
package com.xyz;
public class Base
{
    // ....
    // lot of code...
}
```

- A) By referring to class BASE
- B) By importing the package com.\* and referring to the class as xyz.Base importing com.\* is illegal.
- C) By importing com.Base\* and referring to the class as Base.
- D) By referring to the class as com.xyz.Base.**

2) Consider the following class:

```
class TestClass
{
    int x;
    public static void main ( String[] args )
    {
        // lot of code.
    }
}
```

Which of the following statements is CORRECT?

- A) By declaring x as static, main can access this.x
- B) By declaring x as public, main can access this.x
- C) By declaring x as protected, main can access this.x
- D) main() cannot access this.x as it is declared without any modifier.**

3) Given:

```
1. package fable;
2.
3. import java.util.Vector;
4.
5. protected class MyVector extends Vector {
6. int i = 1;
7. public MyVector() {
8. i = 2;
9. }
10. }
11.
12. public class MyNewVector extends MyVector {
13. public MyNewVector() {
14. i = 4;
15. }
16. public static void main ( String args[] ) {
17. MyVector v = new MyNewVector();
18. }
19. }
```

What would be the result?

- A) Compilation will fail at line 5**
- B) Compilation will fail at line 6
- C) Compilation will fail at line 14
- D) Compilation will fail at line 17

4) What would the following program print?

```
public class TestClass
{
    public static void main ( String[ ] args )
    {
        for : for ( int i = 0; i < 10; i++ )
        {
            for ( int j = 0; j < 10; j++ )
            {
                if ( i + j > 10 ) break for;
            }
            System.out.println ( "hello" );
        }
    }
}
```

- A) It will print "hello" 6 times.
- B) It will not compile.**
- C) It will print "hello" 5 times.
- D) It will print "hello" 4 times.

5) Which of the following methods is available in the java.lang.Math class?

- A) double atan ( double )**
- B) double atai ( double )
- C) double itan ( double )
- D) double invtan ( double )

## PhP Programming

1) What is the output of following code?

```
< ?php
$num = 8;
$string = "Welcome in string of eight world.";
$string = ereg_replace('eight', $num, $string);
echo $string;
?>
```

- A) Welcome in string of 8 world.
- B) Welcome in string of world.**
- C) Welcome in string of eight world.
- D) This gives an error.

---

2) What does this code print?

```
< ?php
$x = array();
$x[null] = 3;
$x[0] = 4;
$x['0'] = 5;
$x[0.0] = 8;
$x[''] = 9;
$x[] = 10;

print_r( $x );
?> \
```

- A) 8,9,10**
- B) 4,8,9,10
- C) 4,5,8,9,10
- D) 3,4,5,8,9

---

3) Which type of regular expression is more powerful and faster in PHP?

- A) POSIX version
- B) Perl Version**
- C) CGI Version
- D) CLI Version

---

4. What is the difference between `ereg_replace()` and `eregi_replace()`?

- A) `eregi_replace()` ignores integer values but `ereg_replace()` does not
- B) `ereg_replace()` ignores integer values but `eregi_replace()` does not
- C) `ereg_replace()` ignores case distinction while matching alphabetical characters but `eregi_replace()` does not
- D) `eregi_replace()` ignores case distinction while matching alphabetical characters but `ereg_replace()` does not**

---

5) How to send error as email?

- A) `error_log("Oops!", 0,"operator@example.com");`
- B) `error_log("Oops!", 1,"operator@example.com");`**
- C) `error_log("Oops!", 2,"operator@example.com");`
- D) `error_log("Oops!", 3,"operator@example.com");`

---

## DTP with Page Maker

1) Where would you find “Document Setup” in Page Maker?

- A) File menu
- B) View menu
- C) Layout menu
- D) Element menu

---

2) What is the difference between creating a normal publication and a template?

- A) Template is a new, untitled publication which is created by default whereas publication has a default text and graphic setup.
- B) Templates are basically guidelines to follow where as publication is the base file for real time production
- C) Template has all the useable contents present in the stage while publication don't have any such elements present
- D) Publication automates the publishing while templates are published document

---

3) What is Desktop publishing?

- A) Arranging colors and images on the page
- B) Arranging text and graphics on the page
- C) Creating layouts on the page
- D) Writing a story on the page

---

4) Which of the following indicates the style of fonts?

- A) Border
- B) Page layout
- C) Alignment
- D) Emphasis

---

5) What does the term “All Caps” represent?

- A) All letters small
- B) All letters Italic
- C) All letters capital
- D) All letters caped

---

## Basic Hardware Course and Networking Components

1) Which of the following is the exact order for the layers of the OSI model?

- A) Application, Presentation, Session, Transport, Network, Data-link, Physical
  - B) Application, Data-link, Session, Transport, Network, Presentation, Physical
  - C) Application, Presentation, Network, Session, Transport, Data-link, Physical
  - D) Application, Session, Data-link, Presentation, Transport, Network, Physical
- 

2) You want to purchase a network card that sends and receives data simultaneously. Which type of card should you purchase?

- A) Digital
  - B) Half-duplex
  - C) Full-duplex
  - D) Analog
- 

3) What technology is best suited to transfer large files from your home to a remote corporate office periodically and quickly?

- A) Frame Relay
  - B) ISDN
  - C) Ethernet
  - D) Ethernet
- 

4) How would you resolve the issue Unmountable boot volume in Windows XP?

- A) Run CHKDSK /R in recovery console
  - B) Re-install the OS
  - C) Re-start the system in the last known good configuration.
  - D) Run System restore.
- 

5) What is the executable file that is directly responsible for starting win 9x?

- A) command.com
- B) win.exe
- C) win.com
- D) Config.sys

---

## Engineering Drawing with AutoCAD (3D)

1) Which of the following commands can be used to explode the text to be able to extrude it?

- A) EXPLODE
  - B) TXTEXP**
  - C) TEXTEXP
  - D) TXTEXPLODE
- 

2) To generate projected 2D representations of your 3D models in given views you can use which of one of the following commands?

- A) 3DDRAW
  - B) 3DVIEW
  - C) SOLVIEW and SOLDRAW**
  - D) DRAW
- 

3) We can create animation of 3D parts in Autocad using which one of the following commands?

- A) \_anipath**
  - B) \_animate
  - C) \_spline
  - D) \_animation
- 

4) If you set the value of SHADEEDGE variable to 3, then what is the outcome?

- A) gives a shaded colour surface with no lines
  - B) gives a shaded colour surface with lines. This tends to give the best overall results
  - C) gives a background colour surface which gives a similar effect to the Hide command
  - D) gives a block colour surface**
- 

5) Which of the following commands will give you a solid object?

- A) Revsurf
- B) Revolution
- C) Revolver
- D) Revolve**

## Advanced C Programming - Data Structures

1) What does p indicate in the following code snippet?

```
#include <stdio.h>
void main()
{
    struct source
    {
        char name[ 25 ];
        int price ;
        char code ;
    };
    struct source *p ;
    struct source x = { "ABC", 100, 'E' };
    p = &x ;
}
```

- A) Pointer to string
- B) Pointer to int
- C) Pointer to structure**
- D) Pointer to char

2) Which of the given statements is CORRECT about the following code snippet?

```
#include <stdio.h>
void main()
{
    enum abc
    {
        enum xyz { a, b, c }, x, y, z
    } p ;
    printf ( "%d %d %d %d", p.xyz.b, p.x, p.y, p.z ) ;
}
```

- A) The program will print the output 1 2 3 4.
- B) The program will print the output 0 1 2 3.
- C) Variable of enum xyz is not created.
- D) Nested enums are not allowed.**

3) Which of the following prefix expression is obtained on converting the infix expression  $A * ( B - C )$ ?

- A) \* A - B C**
- B) \* - A B C
- C) - A \* B C
- D) A B C \* -

4) What would be the output of the following code snippet?

```
#include <stdio.h>
void main()
{
    int p = 90 ;
    printf ( "%d", p >> 3 ) ;
}
```

- A) 0
- B) 1
- C) 11**
- D) 00001011

5) Which of the following prefix expression is obtained on converting the infix expression  $( A + B ) / ( C - D )$ ?

- A) / + A B - C D**
- B) + / A B - C D
- C) + - A B / C D
- D) / - A B + C D

## OOP using C++

1) Class defaults to:

- A) private
- B) public
- C) protected
- D) None of the options

2) Outputs to the standard error stream are directed either to the \_\_\_\_\_ or the \_\_\_\_\_ stream object.

- A) cerr, cout
- B) cerr, cout
- C) cout, cin
- D) cerr, clog

3) A class that contains objects of another class is known as the:

- A) Derived class
- B) Friend class
- C) Base class
- D) Container class

4) Which of the following statements is/are TRUE?

1. Defining a const as a member function that modifies a data member of an object is a syntax error.
2. Defining a const as a member function that calls a non-const member function of the class on the same instance of the class is a syntax error.

- A) Only 1
- B) Only 2
- C) Both 1 and 2
- D) None of the statements

5) Consider the following code snippet:

```
class ConstTest
{
    private:
        const int i ;
    public:
        ConstTest() : i ( 10 )
        {
        }
};
```

What would you infer from the above code?

- A) A class that can be used for inheritance
- B) A class that can be used for defining abstract base classes
- C) A class that specifies the way to define a const member data
- D) None of the options

**J2EE**

1) Which of the following is a requirement for an EJB 2.0 compliant container?

- A) Multi user synchronized access to entity beans.
- B) Multi user simultaneous access to entity beans.
- C) Multi user simultaneous access to stateful session beans.
- D) Support for nested transactions.

2) Which of the following security requirement matches with the given EJB role?

EJB role: Application Assembler

- A) Map security role references to security roles.
- B) Assign a security domain and principal realm to an enterprise application.
- C) Create an application security policy descriptor.
- D) Specify role permissions for security roles.

3) Which of the following is an example of JSP directive?

- A) import
- B) taglibrary
- C) servlet
- D) page

4) Which of the following JSP fragments CORRECTLY defines a method?

- A) `< % public void m1() { ... } %>`
- B) `< %@ public void m1() { ... } %>`
- C) `< % public void m1() { ... }; %>`
- D) `< %! public void m1() { ... }; %>`

5) To load servlets again and again, servers use \_\_\_\_\_ that load servlets from the default servlets directory.

- A) Class loaders
- B) Custom loaders
- C) Custom class loaders
- D) Root loaders

---

## MS SQL RDBMS

1) Which of the following is/are among the 12 rules of a Relational Database Management System as described by E. F. Codd?

- A) Information rule
  - B) Guaranteed access rule
  - C) Logical data independence rule
  - D) All the options**
- 

2) Which of the following statements is TRUE w.r.t primary key and unique key constraints?

- A) A table can contain EITHER only one primary key OR one unique key.
  - B) A primary key can only be one column but a unique key can be a combination of one or more columns in a relational table.
  - C) Primary keys do not allow NULL value insertion whereas a unique key does allow it unless specified otherwise with the NOT NULL clause.**
  - D) All the options
- 

3) How to implement a constraint that deletes an entry in the child table on deleting the corresponding entry in the parent table?

- A) Apply a check constraint and turn on delete cascade.
  - B) Apply Referential integrity constraint with delete cascade option.**
  - C) Apply Referential integrity constraint and a Trigger to delete from the child table.
  - D) Apply a check constraint and a Trigger delete from the child table.
- 

4) What would be the result of the following query?

```
ALTER TABLE EMPLOYEE ADD (PRIV_SALARY DECIMAL (8,2) NULL);
```

- A) Adds new column PRIV\_SALARY to the EMPLOYEE table with values as NULL
  - B) Adds new nullable column PRIV\_SALARY to the EMPLOYEE table**
  - C) Changes the datatype and nullability of an existing column PRIV\_SALARY of EMPLOYEE table
  - D) Contains an error
- 

5) An ALTER statement is used to:

- A) Add a table column**
- B) Add a view
- C) Drop a view
- D) Add trigger

---

## Programming with ASP.NET

1) What type of application is a .NET Remoting application?

- A) Thin client
- B) Closely coupled**
- C) Loosely coupled
- D) Thick client

---

2) MyReport.aspx page is designed to display a HTML report. Which of the following statements will ensure that all dates displayed in the report are in dd/mm/yy format?

- A) Page.Culture = "en-GB"**
- B) < Globalization culture ="en-GB"/>
- C) Page.Culture = "en-US"
- D) < Globalization culture ="en-US"/>

---

3) Which of the following page specific configuration settings can be present in ASP.NET Web.config file?

- A) masterPage
- B) pageTheme
- C) enableViewState**
- D) enableApplicationState

---

4) How do you get information about the name value collection from a web-based form that is submitted using HTTP GET method?

- A) Request.QueryString**
- B) Request.Form
- C) Request.Get
- D) Request.Post

---

5) Which of the following statements are correct?

- I. It is useful to load application state data when the application starts.
- II. We cannot put code to load application state into the Application\_Start() method in the Global.asax file.
- III. In application state we can add objects to the StaticObjects collection only in the Global.asax file.

- A) Only I and II are correct
- B) Only I and III are correct**
- C) Only II and III are correct
- D) I, II and III are correct

## Programming with VB.NET

1) What will be the output of the VB.NET code snippet given below?

```
Class base
  Sub fun()
    Console.WriteLine ( "Hi" )
  End Sub
  Sub fun ( ByVal i As Integer )
    Console.WriteLine ( "Hello" )
  End Sub
End Class
Class derived : Inherits base
  Sub fun()
    Console.WriteLine ( "Bye" )
  End Sub
End Class
Module Module1
  Sub Main()
    Dim d As derived
    d = New derived
    d.fun()
    d.fun ( 13 )
  End Sub
End Module
```

A) Bye  
Hello

**B) The code will give an error**

C) Hi  
Hello

D) Hi  
Bye  
Hello

---

2) Base class contains two data members of Integer type. Derived class also contains two data members of Integer type. If the object of derived class is created in Main() then what will be the size of this object?

- A) 8 bytes
- B) 12 bytes
- C) 4 bytes
- D) 16 bytes**

3) What will be the output of the following VB.NET code snippet if we input a number as 1.34?

```
Module Module1
  Sub Main()
    Dim index As Integer
    Dim a ( 10 ) As Integer
    Try
      Console.WriteLine ( "Enter number : " )
      index = Convert.ToInt32 ( Console.ReadLine() )
      a ( index ) = 30
    Catch ex As IndexOutOfRangeException
      Console.WriteLine ( "Index out of Bounds" )
    Catch ex As FormatException
      Console.WriteLine ( "Bad format" )
    Finally
      Console.WriteLine ( "Clean Up" )
    End Try
    Console.WriteLine ( "Remaining program" )
  End Sub
End Module
```

A) Index out of Bounds  
Clean Up  
Remaining program

B) Index out of Bounds  
Clean Up

C) Bad format  
Remaining program

**D) Bad format**  
Clean Up  
Remaining program

---

4) Which of the following exceptions is thrown for an invalid casting or explicit conversion?

A) CastException  
**B) InvalidCastException**  
C) InnerCastException  
D) InvalidCastingException

---

5.) Which of the following statements is/are correct?

I. To serialize the object of class Demo, attribute is added before serialization.  
II. The System.Xml.Serialization namespace contains classes that are used to serialize objects into XML format documents or streams.

A) Only I is correct.  
B) Only II is correct.  
**C) Both I and II are correct.**  
D) Both I and II are incorrect.

## Advanced Java

1) Consider the following code:

```
class Super
{
    float x;
    float y;
    float z;
    Super(float a, float b)
    {
        x = a;
        y = b;
    }
    Super(float a, float b, float c)
    {
        XXXX
        z = c;
    }
}
```

How to invoke the constructor within a constructor ( XXXX ) of the same class?

- A) super(a,b);
- B) Super(a,b)
- C) this(a,b);**
- D) This(a,b)

2) How can you implement encapsulation in a class?

- A) Make all variables protected and only allow access via methods
- B) Make all variables private and only allow access via methods**
- C) Ensure all variables are represented by wrapper classes
- D) Ensure all variables are accessed through methods in an ancestor class

3) Consider the following code snippet:

```
1. class MyThread extends Thread {
2. static String sName = "vandeleur";
3. public static void main(String[] args){
4. new Thread(new MyThread()).start();
5. MyThread t = new MyThread();
6. t.piggy(sName);
7. System.out.println(sName);
8. }
9. public void piggy(String sName){
10. sName = sName + " wiggy";
11. start();
12. }
13. public void run(){
14. for(int i=0;i < 4; i++){
15. sName = sName + " " + i;
16. }
17. }
18. public void run(){
19. System.out.println("AAA");
20. }
21. public void run(Runnable r){
22. System.out.println("BBB");
23. }
24. }
```

What would be the output of the above code?

- A) vandeleur
- B) vandeleur wiggy
- C) Compile time error**
- D) vandeleur wiggy AAA BBB

4) Which of the following should be used by JVM to map Java threads directly to the native threads in the underlying OS?

- A) Thread
  - B) Thread monitor
  - C) Thread timer
  - D) Thread scheduler**
- 

5) What is the priority assigned to main class by JVM?

- A) 1
- B) 5**
- C) 10
- D) 7

---

## Software Testing

1) The TEXT stream object follows which of the following methods for reading?

- A) READ
  - B) READLINE
  - C) READALL
  - D) All the options**
- 

2) If the Object is not recognised by the script what method is used to get the Object recognised?

- A) Descriptive Programming**
  - B) Virtual object
  - C) Object Spy
  - D) All the options
- 

3) Which of the following information is NOT a part of TestPlan?

- A) An Architectural overview of the application
  - B) Individuals responsible for testing the application
  - C) Prerequisite for testing the application
  - D) Expected results**
- 

4) Each Object declaration has all of the following except:

- A) State**
  - B) Tags
  - C) Identifiers
  - D) Class
- 

5) When a rational robot script is opened or created some of the already created verification points are not displayed in the Asset pane of the Script window. Which type of verification points will not be displayed in the Asset pane of the Script window?

- A) Alphanumeric and Clipboard.
- B) Module Existence and Object Data.
- C) Window Existence, and Alphanumeric (with verification method Numeric Equivalence or Numeric Range).**
- D) Object Properties and Region Image.