

Academic Year (2021-22)

Department of Information Technology (Under Graduate Course) B.Sc.IT

Question Bank

Semester – II

Object oriented Programming (USIT201)

Advanced Learners

1. One name may forms is _____ characteristic of Object Oriented Programming
 - A. Abstraction
 - B. Encapsulation
 - C. Polymorphism
 - D. Inheritance
2. _____ is compile time polymorphism
 - A. Function overloading
 - B. This pointer
 - C. Virtual Functions
 - D. Pointer Functions
3. _____ is runtime polymorphism
 - A. Function overloading
 - B. This pointer
 - C. Virtual Functions
 - D. Pointer Functions
4. _____ is a type of compile time polymorphism
 - A. Operator overloading
 - B. This pointer
 - C. Virtual Functions
 - D. Pointer Functions
5. Functions can be overloaded by changing _____ and _____ of arguments
 - A. Shape and design
 - B. Number and type
 - C. Number and shape
 - D. String and design
6. How can we define inheritance in OOP?
 - A. reusing the code already written
 - B. Using the code already written once
 - C. Using already defined functions in another program
 - D. Calling the data and functions into derived segment
7. How many inheritance are provided by OOP in C++?
 - A. 5
 - B. 4
 - C. 6
 - D. 3
8. In which mechanism one class acquires the property of another class
 - A. Abstraction
 - B. Data Hiding
 - C. Inheritance
 - D. Polymorphism

9. Hybrid Inheritance is combination of
- A. Single and Multilevel
 - B. Multiple and Hierarchical
 - C. Single and Multiple
 - D. Multiple and Multilevel
10. Which inheritance has one base class and more than one derive class?
- A. Single
 - B. Multilevel
 - C. Multiple
 - D. Hierarchical

Slow Learners

1. OOP stands for
- A. Object Open Programming
 - B. Open Object Programming
 - C. Object Oriented Programming
 - D. Open Oval Programming
2. POP stands for
- A. Procedure Oriented Programming
 - B. Procedure Open Programming
 - C. Procedure Over Programming
 - D. Program Over Programming
3. To create an object of class "Animal" syntax is
- A. Class Animal
 - B. Animal Class
 - C. Animal obj1
 - D. Class obj1
4. The blueprint of data members and member functions is known as
- A. Data
 - B. Information
 - C. Class
 - D. List
5. The process of hiding irrelevant details from user is known as
- A. Inheritance
 - B. Abstraction
 - C. Message Passing
 - D. Polymorphism
6. Which among the following is called first, automatically, whenever an object is created?
- A. Class
 - B. Constructor
 - C. New
 - D. Trigger
7. The type of constructor which is called implicitly
- A. New
 - B. Default
 - C. Copy
 - D. Custom
8. The type of constructor with arguments
- A. New
 - B. Default

- C. Copy
 - D. Parameterized
9. The type of constructor used to clone objects
- A. New
 - B. Default
 - C. Copy
 - D. Parameterized
10. The pointer which is used to refer current object is
- A. New
 - B. Current
 - C. Thread
 - D. this

Assignment

1. What is the syntax of class template?
- A. template <parameters> class declaration
 - B. Template <parameters> class declaration
 - C. temp <parameters> class declaration
 - D. Temp <parameters> class declaration
2. _____ & _____ keyword can be used in template?
- A. Function & class
 - B. Class & Typename
 - C. Typename & function
 - D. Class & object
3. :: template is used to perform what operation?
- A. Reusing
 - B. Reusing & binding
 - C. Binding & rebinding
 - D. Rebinding & reusing
4. Define template.
- A. is a formula for creating a generic class
 - B. is used to manipulate the class
 - C. is used for creating the attributes
 - D. Is used to create object for class
5. Which is not a non-type template parameter?
- A. integral type
 - B. Pointer
 - C. Reference to object
 - D. Pointer to member

Microprocessor Architecture (USIT202)

Advanced Learners

1. Microprocessor was introduced in the year _____.
- A. 1945
 - B. 1971
 - C. 1974
 - D. 1980
2. Flip – flops are used in a microprocessor to indicate _____.
- A. Shift register

- B. latches
- C. counters
- D. flag

3. The number of address lines required to access 64 Kbyte of memory of the microprocessor is _____.

- A. 16
- B. 32
- C. 20
- D. 8

4. Flip –flops are used in a microprocessor to indicate _____.

- A. shift register
- B. latch
- C. counters
- D. flag

5. The first microprocessor was _____.

- A. 4001
- B. 8085
- C. 4003
- D. 4004

6. The number of flags in 8085 are _____.

- A. 4
- B. 8
- C. 6
- D. 5

7. _____ bus is bi-directional.

- A. Data
- B. Address
- C. Control
- D. Memory

8. _____ Register is part of ALU.

- A. A
- B. B
- C. C
- D. D

9. Register A is of _____ bits in Microprocessor 8085.

- A. 4
- B. 8
- C. 16
- D. 32

10. A _____ instruction includes the op-code and operand in the same byte.

- A. one-byte
- B. two-byte

- C. three-byte
- D. four-byte

Slow Learners

1. STA 4000 is _____ byte instruction.
 - A. one
 - B. three
 - C. two
 - D. four

2. Stack pointer is a ----- register.
 - A. 16 bit
 - B. 8 bit
 - C. 32 bit
 - D. 4bit

3. If accumulator content is 88H, after execution of CMA accumulator content will be _____.
 - A. 77H
 - B. 93H
 - C. FFH
 - D. 80

4. LDA is -----Instruction.
 - A. arithmetic
 - B. logical
 - C. branch
 - D. data transfer

5. In which of these modes, the immediate operand is included in the instruction itself?
 - A. register operand mode
 - B. immediate operand mode
 - C. register and immediate operand mode
 - D. none of the mentioned

6. A sequence of two registers that multiplies the content of DE register pair by two and stores the result in HL register pair (in 8085 assembly language) is _____.
 - A. XCHG & DAD B
 - B. XTHL & DAD H
 - C. PCHL & DAD D
 - D. XCHG & DAD H

7. The accumulator contains 85H, register B contains 68H, what is the content of accumulator and CY (carry) after executing the following code?
ADD B
DAA
 - A. 35H, 1
 - B. 53H, 0
 - C. 35H, 0
 - D. 53H, 1

8. Which instruction is required to rotate the content of accumulator one bit right along with carry?
A. RLC
B. RAL
C. RRC
D. RAR

9. The Pentium pro dramatically, increases the number of execution step to _____ from Pentium.
A. 12
B. 14
C. 16
D. 32

10. Pentium pro have integrated level _____ cache.
A. 1
B. 2
C. 3
D. 4

Assignment

1. The new Pentium new extension uses page size of _____ bytes.
A. 1M
B. 2M
C. 4M
D. 8M

2. The Pentium 4 was released in _____.
A. 36831
B. 37196
C. 40483
D. 44136

3. A dual core processor has _____ internal processor.
A. 1
B. 2
C. 3
D. 4

4. If accumulator content is 88H, after execution of CMA accumulator content will be _____.
A. 77H
B. 93H
C. FFH
D. 80H

15. LDA is -----Instruction.
A. arithmetic
B. logical
C. branch
D. data transfer

Advanced Learners

1. What is the correct syntax for referring to an external script called "TEST.js"?

- A) <script src="TEST.js">
- B) <script href="TEST.js">
- C) <script ref="TEST.js">
- D) <script name="TEST.js">

2. Predict the output of the following JavaScript code:

```
<script type="text/javascript">  
a = 8 + "8";  
document.write(a);  
</script>
```

- A) 16
- B) 88
- C) Compilation Error
- D) Run Time Error

3. Predict the output of the following JavaScript code.

```
<script type="text/javascript">  
var a="MALAYALAM";  
var x=a.lastIndexOf("A");  
document.write(x);  
</script>
```

- A) 7
- B) 0
- C) 9
- D) Error

4. What will be the output of the following PHP code?

```
<?php  
$num = 1;  
$num1 = 2;  
print $num . "+" . $num1;  
?>
```

- a) 3
- b) 1+2
- c) 1.+2
- d) Error

5. What will be the output of the following PHP code?

```
<?php  
$num = "1";  
$num1 = "2";  
print $num+$num1;  
?>
```

- a) 3
- b) 1+2
- c) Error
- d) 12

6. What will be the output of the following PHP code?

```
<?php
$color = "maroon";
$var = $color[2];
echo "$var";
?>
```

- a) a
- b) Error
- c) \$var
- d) r

7. Which of the below statements is equivalent to `$add += $add`?

- a) `$add = $add`
- b) `$add = $add + $add`
- c) `$add = $add + 1`
- d) `$add = $add + $add + 1`

8. Which statement will output `$x` on the screen?

- a) `echo "\$x";`
- b) `echo "$$x";`
- c) `echo "/$x";`
- d) `echo "$x";`

9. Which of the below symbols is a newline character?

- a) `\r`
- b) `\n`
- c) `/n`
- d) `/r`

10. If `$a = 12` what will be returned when `($a == 12) ? 5 : 1` is executed?

- a) 12
- b) 1
- c) Error
- d) 5

Slow Learners

1. TCP/IP stands for:

- a. Transmission Control Protocol/Intranet Protocol.
- *b. Transmission Control Protocol/Internet Protocol.
- c. Transportation Control Protocol/Internet Protocol.
- d. Transportation Control Protocol/Intranet Protocol.

2. E-mails are exchanged using

- *a. SMTP(Simple Mail Transfer Protocol).
- b. FTP(File Transfer Protocol).
- c. Telnet
- d. SASL/TLS(Simple Authentication and Security Layer And Transport Layer Security)

3. A network protocol used for bidirectional text oriented communication.
- a. SMTP(Simple Mail Transfer Protocol).
 - b. FTP(File Transfer Protocol).
 - *c. Telnet
 - d. SASL/TLS(Simple Authentication and Security Layer And Transport Layer Security)
4. It is a standard application protocol that transfers a file from one host to another over TCP network.
- a. SMTP(Simple Mail Transfer Protocol).
 - *b. FT P(File Transfer Protocol).
 - c. Telnet
 - d. SASL/TLS(Simple Authentication and Security Layer And Transport Layer Security)
5. It is a trading or facilitating trading of products or services using computer networks, primarily internet.
- a. Video Conferencing
 - b. Business to Consumer (B-C)
 - c. Business to Business(B-B)
 - *d. E-Commerce
6. Electronic market for selling products to consumers.
- a. Video Conferencing
 - *b. Business to Consumer (B-C)
 - c. Business to Business(B-B)
 - d. E-Commerce
7. It is using a set of telecommunication technologies allowing more than one location to transmit and receive audio and video signals simultaneously.
- *a. Video Conferencing
 - b. Business to Consumer (B-C)
 - c. Business to Business(B-B)
 - d. E-Commerce
8. It is popular today differs from video conferencing as it is designed to serve multiple individuals rather than multiple locations.
- *a. Videotelephony
 - b. Audiotelephony
 - c. 3-D calling
 - d. All Of the above
9. ISP stands for:
- a. Intranet Service Provider
 - *b. Internet Service Provider
 - c. Internet Server Protocol
 - d. Intranet Server Protocol
10. IAP stands for :
- *a. Internet Access Provider
 - b. Intranet Access Provider

- c. Intranet Application Protocol
- d. Internet Application Protocol

Assignments

1. Which one of the following statements is used to create a table?

- a) CREATE TABLE table_name (column_name column_type);
- b) CREATE table_name (column_type column_name);
- c) CREATE table_name (column_name column_type);
- d) CREATE TABLE table_name (column_type column_name);

2. Which one of the following statements instantiates the mysqli class?

- a) mysqli = new mysqli()
- b) \$mysqli = new mysqli()
- c) \$mysqli->new(mysqli())
- d) mysqli->new(mysqli())

3. Which one of the following methods is responsible for sending the query to the database?

- a) query()
- b) send_query()
- c) sendquery()
- d) mysqli_query()

4. Which one of the following methods recuperates any memory consumed by a result set?

- a) destroy()
- b) mysqli_free_result()
- c) alloc()
- d) free()

5. Which one of the following methods recuperates any memory consumed by a result set?

- a) destroy()
- b) mysqli_free_result()
- c) alloc()
- d) free()

Numerical and Statistical Methods(USIT204)

ADVANCED LEARNER

SLOW LEARNER

Green Computing (USIT205)

Advanced Learner

- 1. The concept where one server connects with many individual computers is known as
 - A. Recycling
 - B. Power Management
 - C. Reuse
 - D. Virtualization

2. The toxin which is present in circuit boards and semiconductors
 - A. Lead
 - B. Sodium
 - C. Cadmium
 - D. Potassium
3. The major toxin present in Cathode Ray Tube up to 6 percent is
 - A. Potassium
 - B. Nickel
 - C. Mercury
 - D. Lead
4. In which year the European countries banned the use of e-waste
 - A. 1990s
 - B. 1980s
 - C. 1970s
 - D. 1950s
5. The client which depends on other computers to function for its own self
 - A. Server
 - B. Printer
 - C. Blade Client
 - D. Thin Client
6. The tool to monitor server on a large scale used by administrators is
 - A. IBM Power Executive
 - B. Power Manager
 - C. Server Manager
 - D. Thin Manager
7. The low cost device used to monitor power is known as
 - A. Device Manager
 - B. Kill A watt
 - C. Power Manager
 - D. Watt manager
8. The efficiency of backup of data can be increased using
 - A. Virtualization
 - B. Thin Client
 - C. Data Duplication
 - D. Blade Server
9. The device that regulates the power and changes it to Alternating Current
 - A. Solar Panel
 - B. Invertor
 - C. Executor
 - D. Watt Panel
10. The panels used to absorb solar radiation
 - A. Solar Panel
 - B. Photovoltaic Panel
 - C. Glass Panel
 - D. Steel Panel

Slow Learner

1. The supply chain management where environment supportive actions are implemented

- A. Fine supply
 - B. Better supply
 - C. Green supply
 - D. Good supply
2. The pyramid of analysis and actions will have the lowest layer as
- A. Individual
 - B. Building
 - C. National
 - D. City
3. The pyramid of analysis and actions have highest layer as
- A. Global
 - B. City
 - C. Local
 - D. Building
4. The organization should prefer _____ paper
- A. Post consumer
 - B. Post consumer recycled
 - C. Good Quality
 - D. Average Quality
5. The organization must use janitors which are
- A. Sodium free
 - B. Chlorine free
 - C. Lead free
 - D. Mercury free
6. The toxin found in glass TV and CRT
- A. Sodium
 - B. Potassium
 - C. Barium
 - D. Lead
7. The famous place in Africa where most e-waste is there
- A. Computer Village
 - B. San Village
 - C. Mos Village
 - D. E-waste Village
8. The number of shipping containers transferred every month to Lagos
- A. 100
 - B. 500
 - C. 20
 - D. 10
9. _____ uses the datacenter's airconditioning system to adapt to changing workloads with sensors attached to the computers
- A. air-side economizer
 - B. water-side economizer
 - C. Static Smart Cooling
 - D. Dynamic Smart Cooling
10. To deliver the precise cooling environment, ____ must be exchanged at a sufficient rate
- A. WATER

- B. AIR
- C. STEAM
- D. BREEZE

Assignment

1. In high-density datacenters, air has to be exchanged ___ times an hour
 - A. 50
 - B. 60
 - C. 70
 - D. 80

2. Which is considering as system in conjunction with the hot-aisle/cold-aisle design can equate to more energy efficiency.
 - A. DATA MANAGEMENT
 - B. EQUIPMENT MANAGEMENT
 - C. CABLE MANAGEMENT
 - D. DEVICE MANAGEMENT

3. The data center density will depend on
 - A. Higher rack size
 - B. Lower rack size
 - C. Rack percentage
 - D. Rack ratio

4. WIFI APs announce their presence at regular intervals by sending a _____
 - A. SSL PACKET
 - B. TCP PACKET
 - C. ARP PACKET
 - D. BEACON PACKET

5. It's possible to manage many power settings using _____ in Windows or a similar tool in Linux and Mac environments
 - A. SECURITY POLICY
 - B. GROUP POLICY
 - C. USAGE POLICY
 - D. UTILITY POLICY