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SR.NO	Project NAME	Technology
1	E-Learning HUB	React+Springboot+MySQL
2	PG MATES	React+Springboot+MySQL
3	Tour and Travel	React+Springboot+MySQL
4	Marriage Hall booking	React+Springboot+MySQL
5	Bus ticket booking Mini Project	React+Springboot+MySQL
6	Quizz App /Exam Portal Mini Project	Springboot,MySQL,JSP,Html
7	Event Management System	React+Springboot+MySQL
8	Hotel Mangement System	React+Springboot+MySQL
9	Agriculture Web Project	React+Springboot+MySQL
10	AirLine Reservation System	React+Springboot+MySQL
11	E-Commerce Web Project	React+Springboot+MySQL
12	Sport Ground Booking	React+Springboot+MySQL
13	CharityDonation web project	React+Springboot+MySQL
14	Hospital Management Project	React+Springboot+MySQL
15	Online voting System Mini project	Springboot,MySQL,JSP,Html
16	E-Commerce shop mini project	Springboot,MySQL,JSP,Html
17	Job Portal web project	React+Springboot+MySQL
18	Insurance policy Portal	React+Springboot+MySQL
19	Transpotation Services portal	React+Springboot+MySQL
20	E-RTO Driving licence portal	React+Springboot+MySQL
21	doctor Appointment Portal	React+Springboot+MySQL
22	Online food delivery Project	React+Springboot+MySQL
23	Municipal Corporation Management	React+Springboot+MySQL
24	E-College Portal Project	React+Springboot+MySQL
25	Gym Management	React+Springboot+MySQL
X 26	Bike Booking System Portal	React+Springboot+MySQL
27	Food Waste Management Portal	React+Springboot+MySQL
28	Online Pizza delivery Portal	React+Springboot+MySQL
29	Fruite Delivery portal	React+Springboot+MySQL
30	HomeRental Booking Project	React+Springboot+MySQL
31	FarmerMarketplace	React+Springboot+MySQL

AJP TEST

Total points 21/40



Time-1hr ,40 questions

Name *

ashok pate

E-mail *

ashokdgate@gmail.com

CENTER *

 JUHU KHARGHAR

✓ Which of the following statements is true regarding the scope of 'request' in JSP? 1/1

- A. Option 1Objects with request scope are accessible from pages processing the same request where they were created
- C. References to objects with request scope are stored in the request object
- B. All references to the object shall be released after the request is processed; in particular, if the request is forwarded to a resource in the same run time, the object is still reachable
- D. All of the above



X What is the correct syntax for annotation wiring?

0/1

- <annotation-context:config /> to bean configuration.
- <annotation-config /> to bean configuration.
- <annotation-context-config /> to bean configuration. X
- <context:annotation-config/> to bean configuration.

Correct answer

- <context:annotation-config/> to bean configuration.

X Beans can be created by which of the following properties?

0/1

- Scope
- Property X
- Class
- It's own constructor

Correct answer

- It's own constructor

✓ A bean can have more than one name using multiple id attributes?

1/1

- True ✓
- False



✓ The annotations must be added to the implementation class but not the interface 1/1

True ✓

False

✓ Attribute used to handle web flow requests. 1/1

servlet-mapping ✓

servlet-attr

servlet-flow

servlet-requests1

✗ . Which HTTP method is not considered as idempotent? 0/1

Get ✗

post

Put

Head

Correct answer

Put



✗ . Which method is used by servlet to handle form data from a client?

0/1

- HttpServlet.doPost()
- HttpServlet.doPut()
- HttpServlet.doHead()
- ServletRequest doGet()

✗

Correct answer

- HttpServlet.doPost()

✗ . Which types define the methods getAttribute() and setAttribute()?

0/1

- HttpSession
- ServletContext
- ServletRequest
- All of the above

✗

Correct answer

- ServletRequest

✓ . _____ bean can have persistent relationship with other entity beans.

1/1

- CMP
- Entity
- BMP
- Message-driven beans

✓



✓ SessionFactory is a thread-safe object.

1/1

True



false

✗ Which of the following methods hits database always?

0/1

load()

loadDatabase()

getDatabase()



get()

Correct answer

get()

✓ Which of the following is not an advantage of Hibernate Criteria API?

1/1

Allows to use aggregate functions

Cannot order the result set



Allows to fetch only selected columns of result

Can add conditions while fetching results



- ✓ Spring HibernateTemplate can simplify your DAO implementation by managing sessions and transactions for you.

1/1

- True
 False



- ✗ Sessionfactory can manage contextual sessions for you and allows you to retrieve them by the:-

- getSession() method
 getCurrent() method
 getCurrentSession() method
 none of the mentioned



Correct answer

- getCurrentSession() method

- ✓ DAO methods require access to the session factory, which can be injected:-

1/1

- a setter method
 constructor argument
 none of the mentioned
 all of the mentioned



✗ Spring provides to simplify your DAO implementation by managing entitymanagers and transactions for you:-

0/1

- HibernateTemplate ✗
- JpaTemplate
- SpringTemplate
- None of the mentioned

Correct answer

- JpaTemplate

✓ You can assign a component name in this annotation and have the session factory autowired by the Spring IoC container with @Autowired.

1/1

- True ✓
- False

✗ A set of persistent annotations for you to define mapping metadata.

0/1

- JPA
- JSR
- XML ✗
- None of the mentioned

Correct answer

- JPA



- ✓ Each entity class to be persisted by an ORM framework, a default constructor with no argument is required.

1/1

- True
 False



- ✗ What are the major components of the JDBC?

0/1

- DriverManager, Driver, Connection, Statement, and ResultSet
 DriverManager, Driver, Connection, and Statement
 DriverManager, Statement, and ResultSet
 DriverManager, Connection, Statement, and ResultSet



Correct answer

- DriverManager, Driver, Connection, Statement, and ResultSet

- ✓ Which of the following method is used to perform DML statements in JDBC?

1/1

- executeResult()
 executeQuery()
 executeUpdate()
 execute()



✖ Which methods are required to load a database driver in JDBC?

0/1

- getConnection()
- registerDriver()
- forName()
- Both b and c

✖

Correct answer

- Both b and c

✓ JDBC API supports _____ and _____ architecture model for accessing the database.

1/1

- Two-tier
- Three-tier
- Both a and b
- Only b

✓



✖ Which of the following is not a jsp directive?

0/1

- include
- page
- scriptlet
- useBean

✖

Correct answer

- scriptlet

✖ How many JDBC driver types does Sun define?

0/1

- One
- Two
- Three
- Four

✖

Correct answer

- Four



✗ The difference between Servlets and JSP is the 0/1

- A.translation
- B. compilation
- C. syntax
- D. Both A and B

✗

Correct answer

- C. syntax

✓ Which option is true about session scope? 1/1

- A. Objects are accessible only from the page in which they are created
- B. Objects are accessible only from the pages which are in same session ✓
- C. Objects are accessible only from the pages which are processing the same request
- D. Objects are accessible only from the pages which reside in same application

✗ The method forward(request, response) will 0/1

- A. return back to the same method from where the forward was invoked
- B. not return back to the same method from where the forward was invoked and the web pages navigation continues
- C. Both A and B are correct ✗
- D. None of the above

Correct answer

- A. return back to the same method from where the forward was invoked



✓ JSP includes a mechanism for defining or custom tags. 1/1

- A. static attributes
- B. local attributes
- C. dynamic attributes
- D. global attributes



✓ Why DB connections are not written directly in JSPs? 1/1

- A.. Response is slow
- B. Not a standard J2EE architecture
- C. Load Balancing is not possible
- D. Both B and C
- Other: _____



✗ How many jsp implicit objects are there and these objects are created by the web container that are available to all the jsp pages? 0/1

- A.8
- B. 9
- C. 10
- D. 7



Correct answer

- B. 9



✖ Why use Request Dispatcher to forward a request to another resource, instead of using a sendRedirect? 0/1

- A.Redirects are no longer supported in the current servlet API
- B. Redirects are not a cross-platform portable mechanism
- C. The RequestDispatcher does not use the reflection API ✖
- D. The RequestDispatcher does not require a round trip to the client, and thus is more efficient and allows the server to maintain request state

Correct answer

- D. The RequestDispatcher does not require a round trip to the client, and thus is more efficient and allows the server to maintain request state

✓ Which attribute specifies a JSP page that should process any exceptions thrown but not caught in the current page? 1/1

- A.The ErrorPage Attribute ✓
- B. The IsErrorPage Attribute
- C. Both A & B
- D. None of the above

✓ JDBC is a interface, which means that it is used to invoke SQL commands directly 1/1

- A.low-level ✓
- B. middle-level
- C. higher-level
- D. user



What is JDBC?

1/1

- A. java compiler
- B. Java API
- C. Java interpreter
- D. Both A and B



. Dynamic interception of requests and responses to transform the information is done by

0/1

- A.servlet container
- B. servlet config
- C. servlet context
- D. servlet filter



Correct answer

- D. servlet filter



✖ This is a software distribution model in which applications are hosted by a vendor or service provider and made available to customers over a network, typically the Internet. 0/1

- A. Platform as a Service (PaaS) ✖
- B. Infrastructure as a Service (IaaS)
- C. Software as a Service (SaaS)
- D. None

Correct answer

- C. Software as a Service (SaaS)

✓ What is the initial contact point for handling a web request in a Page-Centric architecture? 1/1

- A. A JSP page ✓
- B. A JavaBean
- C. A servlet
- D. A session manager

✓ How to send data in get method? 1/1

- A. We can't
- B. Through url ✓
- C. Through payload
- D. None of these



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Question 1 of 40

Which of the following is not the part of main thread libraries in use today?

Correct answer: A.
You chose: A.

This question displayed answers in random order during the test.

- A. HPUX threads
- B. Java threads
- C. Win32 threads
- D. POSIX Pthreads

Points: 1 / 1

Question 2 of 40

Secondary method is divided into equal size partition (fixed) called _____ and Main memory is divided into small fixed-sized blocks of (physical) memory called _____

Correct answer: C.
You chose: A.

This question displayed answers in random order during the test.

- A. segments, frames
- B. pages, segments
- C. pages, frames
- D. frames, pages

Question 3 of 40

What will be the output of the below code snippet:

```
public class Main{  
    static int num1 = 100;  
    static int num2 = 200;  
    static{  
        num1 += 1;  
        num2 += 1;  
    }  
    public static void main(String args[]){  
        num1 +=5;  
        num2 +=10;  
        System.out.println(num1 + num2);  
    }  
    static{  
        num1 +=200;  
        num1 +=300;  
    }  
}
```

Correct answer: **C.**

You chose: **B.**

This question displayed answers in random order during the test.

A. 15

✗ B. 517

→ C. 817

D. 315

Question 4 of 40

What is the latest Long-Term Support(LTS) released for Java standard Edition (SE)?

Correct answer: C.

You chose: C.

This question displayed answers in random order during the test.

A. Java 15

B. Java 16

C. Java 17

D. Java 19

Points: 1 / 1

Question 5 of 40

What will be the output of the below code snippet?

```
public class Main{
    public static void main (String[] args){
        String s1="pgdac";
        String s2=new String("pgdac");
        String s3="pgdac";
        if(s1 == s2){
            System.out.println("s1 and s2 equal");

        }else{
            System.out.println("s1 and s2 not equal");
        }
        if(s1 == s3){
            System.out.println("s1 and s3 equal");
        }else{
            System.out.println("s1 and s3 not equal");
        }
    }
}
```

Correct answer: C.

You chose: C.

This question displayed answers in random order during the test.

A. s1 and s2 not equal
s1 and s3 not equal

B. s1 and s2 equal
s1 and s3 not equal

✓ C. s1 and s2 not equal
s1 and s3 equal

D. s1 and s2 equal
s1 and s3 equal

Question 6 of 40

Which method can be defined only once in a program?

Correct answer: A.

You chose: A.

This question displayed answers in random order during the test.

A. main method

B. private method

C. finalize method

D. static method

Points: 1 / 1

Question 7 of 40

Using Priority Scheduling Algorithm, find the average waiting time for the following set of processes given with their priorities in the order : Process: Burst Time:Priority respectively

P1: 10:3

P2: 1:1

P3: 2:4

P4: 1:5

P5: 5:2

Correct answer: A.

Selected answer: No answer given

→ A. 8.5 milliseconds

B. 3 milliseconds

C. 7.75 milliseconds

D. 8 miliseconds

Points: 0 / 1

Question 8 of 40

Which of the following is the right way to create a new object in java?

Correct answer: A.

You chose: A.

This question displayed answers in random order during the test.

- A. `ClassName object = new ClassName();`
- B. `obj=classname();`
- C. `Object.create();`
- D. `classname.objectname();`

Points: 1 / 1

Question 9 of 40

Signal delivery in a process model takes place:

Correct answer: **C**.

You chose: **B**.

This question displayed answers in random order during the test.

- A. None of the above
- B. in the context of the process that received the signal
- C. in the context of the kernel
- D. in the context of the process that generated the signal

Points: 0 / 1

Question 10 of 40

Consider a reference string: 4,7,6,1,7,6,1,2,7,2

the number of frames in the memory is 3 and it uses First In First Out page replacement policy. Calculate hit and miss ratios respectively.

Correct answer: **B**.

You chose: **D**.

This question displayed answers in random order during the test.

A. Hit Ratio=50%, Miss ration=50%

→ B. Hit Ratio=40%, Miss Ratio=60%

C. Hit Ratio=40%, Miss ration=40%

✗ D. Hit Ratio=60%, Miss ration=40%

Points: 0 / 1

Question 11 of 40

The output of script is:

```
Weekday 1 : Mon  
Weekday 2 : Tue  
Weekday 3 : Wed  
Weekday 4 : Thur  
Weekday 5 : Fri
```

Choose the correct script:

Correct answer: B.

You chose: D.

This question displayed answers in random order during the test.

A. i=1
for day in Mon Tue Wed Thu Fri
do
echo "Weekday \${((1+i))} : \$day"
done

→ B. i=1
for day in Mon Tue Wed Thu Fri
do
echo "Weekday \${((i++))} : \$day"
done

C. i=0
for day in Mon Tue Wed Thu Fri
do
echo "Weekday \${(i++)} : \$day"
done

✗ D. i=1
for day in Mon Tue Wed Thu Fri
do
echo "Weekday \${(i++)} : \$day"
done

Question 12 of 40

The section of code, which is accessed by the shared variable is known as _____.

Correct answer: B.

You chose: A.

This question displayed answers in random order during the test.

- A. Mutex
- B. Critical Section
- C. Block V
- D. Semaphore

Points: 0 / 1

Question 13 of 40

`echo $(uname -r)` is an example of _____

Correct answer: D.

You chose: B.

This question displayed answers in random order during the test.

- A. command substitution
- B. brace expansion
- C. arithmetic expansion
- D. parameter expansion

Points: 0 / 1

Question 14 of 40

Which one is the fastest form of Inter-process Communication(IPC)?

Correct answer: A.

You chose: C.

This question displayed answers in random order during the test.

→ A. Shared Memory

B. Signals

✗ C. Message Queues

D. Pipes

Points: 0 / 1

Question 15 of 40

As a part of paging technique, physical memory is broken into fixed blocked called as _____.

Correct answer: B.

You chose: C.

This question displayed answers in random order during the test.

A. Blocks

→ B. Frames

✗ C. Segments

D. Pages

Question 16 of 40

The command used to display long listing of file is:

Correct answer: A.

You chose: A.

This question displayed answers in random order during the test.

- A. ls -l
- B. ls -r
- C. ls -a
- D. ls -t

Points: 1 / 1

Question 17 of 40

Which of the following for loop declaration is not valid?

Correct answer: D.

You chose: D.

This question displayed answers in random order during the test.

- A. for(int i=7;i<=77;i+=7)
- B. for(int i=2;i<=20;i=2*i)
- C. for(int i=20;i>=2;--i)
- D. for(int i=99;i>=0;i/9)

Question 18 of 40

Memory management technique in which Operating System stores and retrieves data from secondary storage for use in main memory is called _____

Correct answer: C.

You chose: A.

This question displayed answers in random order during the test.

- A. Fragmentation
- B. Thrashing
- C. Paging
- D. Mapping

Points: 0 / 1

Question 19 of 40

Consider a single level paging scheme. The virtual address space is 4 MB and page size is 4KB. What could be the number of pages of process here?

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

- A. $(2^{10})-1$ pages
- B. 2^{10} pages
- C. 2^{1000} pages
- D. 2^{100} pages

Question 20 of 40

Which of the following should surround regular expression to ensure that they are processed properly?

Correct answer: C.
You chose: B.

This question displayed answers in random order during the test.

- A. Double quotation marks
- X** B. Parenthesis
- C. Single quotation marks**
- D. Backslashes

Points: 0 / 1

Question 21 of 40

Which of these is not a bitwise operator??

Correct answer: A.
You chose: D.

This question displayed answers in random order during the test.

- A. <=' operator**
- B. |=' operator
- C. &=' operator
- X D. &' operator**

Question 22 of 40

What value is returned by the fork() system call on a successful creation of the child process to the child?

Correct answer: C.

You chose: B.

This question displayed answers in random order during the test.

A. 1

✗ B. PID of the parent process

→ C. 0

D. -1

Points: 0 / 1

Question 23 of 40

Which of the following signals cannot be blocked, ignored and caught?

Correct answer: D.

You chose: D.

This question displayed answers in random order during the test.

A. SIGINT SIGILL

B. SIGINT SIGSTOP

C. SIGINT SIGKILL

✓ D. SIGKILL SIGSTOP

Question 24 of 40

A graphical operating system- Windows NT, developed by Microsoft uses _____ type of kernel?

Correct answer: C.

You chose: A.

This question displayed answers in random order during the test.

- A. Micro
- B. Monolithic
- C. Hybrid
- D. Nano

Points: 0 / 1

Question 25 of 40

A _____ is a data structure maintained by the Operating System for every process and identified by an integer process ID(PID)

Correct answer: D.

You chose: A.

This question displayed answers in random order during the test.

- A. Process Register
- B. Process Pointer
- C. Program Counter
- D. Process Control Block

Question 26 of 40

Scheduling of threads by:

Correct answer: D.

You chose: B.

This question displayed answers in random order during the test.

A. Input

✗ B. Main Memory

C. Output

➔ D. Operating System

Points: 0 / 1

Question 27 of 40

Logical extension of multiprogramming operating system is:

Correct answer: B.

You chose: A.

This question displayed answers in random order during the test.

✗ A. Multi-tasking

➔ B. Time sharing and Multi-tasking

C. Single programming

D. Time sharing

Points: 0 / 1

Question 28 of 40

Kernel generate signals to

Correct answer: A.

You chose: C.

This question displayed answers in random order during the test.

- A. notify processes of events
- B. Kernel does not generate signals
- X C. call user space
- D. stop execution of ended process

Points: 0 / 1

Question 29 of 40

Which of the following represent legal flow control statements?

Correct answer: C.

You chose: B.

This question displayed answers in random order during the test.

- A. exit();
- X B. continue(inner);
- C. break;
- D. break();

Points: 0 / 1

Question 30 of 40

Another type of multiple-CPU system is the:

Correct answer: A.

You chose: A.

This question displayed answers in random order during the test.

 A. Clustered System

B. Mini Computer

C. Network Computer

D. Super Computer

Points: 1 / 1

Question 31 of 40

Which piece of code displays that the two functions are reentrant functions

Correct answer: C.

You chose: A.

This question displayed answers in random order during the test.

✗ A. None of the above

B. int my_function(int x){
 return x*10;
}
int my_second_function(int x){
 return my_function(y)*20;
}

→ C. int my_function(int x){
 return x*10;
}
int my_second_function(int x){
 return my_function(x)*20;
}

D. int x;
int my_function(){
 return x*10;
}
int my_second_function(){
 return my_function()*20;
}

Points: 0 / 1

Question 32 of 40

Each process (in a process-model) has a:

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

- A. Signal action activity
- B. All of the above
- C. Single pending field
- D. Signal mask field

Points: 1 / 1

Question 33 of 40

_____ involves storing the context or state of process so that it can be reloaded when required and execution can be resumed from the same point as earlier.

Correct answer: C.

You chose: D.

This question displayed answers in random order during the test.

- A. Process Swapping
- B. Process Switching
- C. Context Switching
- D. Context Swapping

Question 34 of 40

Where is Swap Space located/exists?

Correct answer: A.

You chose: D.

This question displayed answers in random order during the test.

- A. Secondary Memory
- B. Primary Memory
- C. Registers
- ✗ D. Virtual Memory

Points: 0 / 1

Question 35 of 40

Which of the following variable need to be initialized before using it?

Correct answer: D.

You chose: B.

This question displayed answers in random order during the test.

- A. Global
- ✗ B. Instance
- C. Static
- D. Local

Points: 0 / 1

Question 36 of 40

Which of the following environment variable contains the value of default shell prompt?

Correct answer: A.

You chose: D.

This question displayed answers in random order during the test.

- A. PS1
- B. \$HOME
- C. PS2
- ✗ D. SHELL

Points: 0 / 1

Question 37 of 40

Which is valid way to declare and initialize an array?

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

- A. int [] arr = (5,8,2);
- ✓ B. int arr [] = {4,3,7};
- C. int arr [][] = {4,9,7,0};
- D. int [] arr = {"1", "2", "3"};

Points: 1 / 1

Question 38 of 40

Which of the following is used as a special cache to keep track of recently used page table entries?

Correct answer: B.

You chose: A.

This question displayed answers in random order during the test.

- A. Register
- B. Translation Lookaside Buffer(TLB)
- C. Stack
- D. Heap

Points: 0 / 1

Question 39 of 40

Which of these statements is incorrect?

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

- A. main() method must be made public.
- B. Every class must contain a main() method
- C. There can be only one main() method in a program
- D. Applets does not require a main() method at all

Question 40 of 40

A dirty bit or modified bit is a bit that is associated with a block of computer memory and indicates whether or not the corresponding block of memory has been modified. When the dirty bit is switched _____, the page is modified and can be replaced in memory. If it is _____, no replacement is necessary since no updates have been made.

Correct answer: A.

You chose: A.

A. on,off

B. off,on

C. off,off

D. None of the above.

Points: 1 / 1

Question 1 of 40

Method Overloading has multiple methods with:

Correct answer: **B**.
You chose: **C**.

This question displayed answers in random order during the test.

- A. Same method name & same data type of arguments
- B. Same method name but different number or datatype of arguments**
- ✗ C. All of the above**
- D. Same method name & same number of arguments

Points: 0 / 1

Question 2 of 40

Which of the following can be used to move thread from waiting state to runnable state?

Correct answer: **A**.
You chose: **B**.

This question displayed answers in random order during the test.

- A. using notifyAll method**
- ✗ B. using awake method**
- C. using start method
- D. using yield method

Question 3 of 40

What will be the output for given statement?

```
System.out.println("5"+"10"+"3"+"9"+1);
```

Correct answer: C.

You chose: C.

This question displayed answers in random order during the test.

A. 51391

B. 271

✓ C. 510391

D. 28

Points: 1 / 1

Question 4 of 40

Enum constant _____.

Correct answer: B.

You chose: C.

This question displayed answers in random order during the test.

A. is implicitly private static final

→ B. must be defined as first statement

✗ C. is an object of type enum

D. ordinal value starts from 1

Question 5 of 40

What is false about constructor?

Correct answer: C.

You chose: C.

This question displayed answers in random order during the test.

- A. Java does not provide default copy constructor
- B. Constructors cannot be synchronized in Java
- C. Constructor can have explicit return type**
- D. "this" and "super" can be used in a constructor

Points: 1 / 1

Question 6 of 40

Which of the following is true about HashMap<K,V> API?

Correct answer: B.

You chose: A.

This question displayed answers in random order during the test.

- X** A. it is sorted map implementation class
- B. it allows to add null key reference(once)**
- C. it is inherently thread safe
- D. it does not guarantee constant time performance.

Points: 0 / 1

Question 7 of 40

A place where a Class's objects are kept is called as:

Correct answer: A.

You chose: A.

This question displayed answers in random order during the test.

✓ A. Heap

B. File

C. Stack

D. Disk

Points: 1 / 1

Question 8 of 40

in order to prevent a collision, which of the following is not a most effective technique?

Correct answer: B.

You chose: A.

This question displayed answers in random order during the test.

✗ A. Use the chaining method

→ B. Increasing hash table size

C. Use uniform hashing

D. Make the hash function appear random

Question 9 of 40

What type of conversion is shown in the following code?

long l=100; int i=(int)l;

Correct answer: C.

You chose: C.

This question displayed answers in random order during the test.

- A. Implicit Type Conversion
- B. None of the Above
- C. Explicit Type conversion
- D. Auto Type conversion

Points: 1 / 1

Question 10 of 40

Which of the following is an example of a garbage collection method?

Correct answer: D.

You chose: C.

This question displayed answers in random order during the test.

- A. Cleanup model
- B. Sweep Model
- C. Space management model
- D. Mark and Sweep Model

Question 11 of 40

What will be the output if Sample.java does not have the main() method?

Correct answer: D.

You chose: B.

This question displayed answers in random order during the test.

- A. Class will get executed without any error
- B. Compile time error using javac command
- C. Class will get executed with an exception
- D. Run time error using java command

Points: 0 / 1

Question 12 of 40

Aggregation is also called as:

Correct answer: C.

You chose: C.

- A. OR A Relation
- B. AND A Relation
- C. HAS A Relation
- D. None of the Above

Points: 1 / 1

Choose the incorrect syntax for a lambda expression.

Correct answer: A.

You chose: B.

This question displayed answers in random order during the test.

- A. (String s)->{"lambda expression of type String";}
- ✗ B. ()->3.567
- C. (param)->System.out.println("parameterized lambda expression");
- D. ()->System.out.println("lambda expression");

Points: 0 / 1

Question 14 of 40

What will be the output of the following code snippet?

```
int a=15;  
int b=25;  
if((a<b) || (a==5)>15)  
    System.out.println(a);  
else  
    System.out.println(b);
```

Correct answer: C.

You chose: C.

This question displayed answers in random order during the test.

- A. 25
- B. Error
- ✓ C. 15

Question 15 of 40

When is it decided if a method should be overloaded?

Correct answer: A.

You chose: A.

This question displayed answers in random order during the test.

- A. At compile time
- B. At run time
- C. At coding time
- D. At execution time

Points: 1 / 1

Question 16 of 40

Which of the following statement is correct to check the largest number from given three numbers?

Correct answer: C.

You chose: C.

This question displayed answers in random order during the test.

- A. None of the Above
- B. $b > (a > b ? a : b) ? c : (a > b ? a : b);$
- C. $c > (a > b ? a : b) ? c : (a > b ? a : b);$
- D. $a > (a > b ? a : b) ? c : (a > b ? a : b)$

Question 17 of 40

Anonymous Inner Class can _____

Correct answer: A.

You chose: A.

This question displayed answers in random order during the test.

- A. be extended by another class
- B. access the member of its outer class
- C. not be instantiated
- D. have a name

Points: 1 / 1

Question 18 of 40

What are generic methods?

Correct answer: C.

You chose: B.

This question displayed answers in random order during the test.

- A. Generic methods are the methods that extend generic class methods
- B. Generic methods are methods that take void parameters
- C. Generic methods are methods that introduce their own type parameters
- D. Generic methods are the methods defined in a generic class

Points: 0 / 1

Question 19 of 40

Which of the following is false about static keyword?

Correct answer: C.

You chose: C.

This question displayed answers in random order during the test.

- A. static methods can access other static method directly
- B. static block gets called only once and a class can have multiple static block
- C. Non static methods cannot access other static members directly
- D. static import can access directly all the static members of the class

Points: 1 / 1

Question 20 of 40

Which of the following for loop declaration does not meet the requirements?

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

- A. for(int i=2;i<=20;i=2*i)
- B. for(int i=99;i>0;i/2)
- C. for(int i=20;i>=2;--i)
- D. for(int i=7;i<=77;i+=7)

Points: 1 / 1

Question 21 of 40

"Object value = 13.041;" represents _____

Correct answer: D.

You chose: D.

This question displayed answers in random order during the test.

- A. Composition and Down Casting
- B. Generalization and Down Casting
- C. Auto Boxing and Up Casting
- D. Widening and Up Casting

Points: 1 / 1

Question 22 of 40

What will be the output of the following program?

```
class W{  
    static int c=0;  
    public static void main(String[] args){  
        W w1 = c();  
        W w2 = c(w1);  
        W w3 = c(w2);  
        W w4 = c(w3);  
    }  
    private W(){  
        System.out.println("c="+c);  
    }  
    static W c(){  
        return c++ <= 0 ? new W() : null;  
    }  
  
    static W c(W w){  
        return w.c++ == 1 ? new W() : null;  
    }  
}
```

Correct answer: D.

You chose: A.

This question displayed answers in random order during the test.

✖ A. Null Pointer Exception

B. c=1,c=2,c=3,c=4

C. c=1,c=2,c=3

→ D. c=1,c=2

Question 23 of 40

When do you expect the daemon thread to be terminated?

Correct answer: C.

You chose: D.

This question displayed answers in random order during the test.

- A. When interrupt() method is called
- B. None of these
- C. Once all non-daemon threads execution is completed
- ✗ D. When wait() method is called

Points: 0 / 1

Question 24 of 40

What is not the advantage of Reflection?

Correct answer: A.

You chose: C.

This question displayed answers in random order during the test.

- A. Examine a class's field at compile time
- B. Examine a class's field and method at runtime
- ✗ C. Construct an object for a class at runtime
- D. Examine an object's class at runtime

Question 25 of 40

If there are multiple operators in the expression, then they will follow the rule of

Correct answer: B.

You chose: A.

This question displayed answers in random order during the test.

- ✖ A. Associativity
- B. Precedence
- C. Random
- D. POSIX

Points: 0 / 1

Question 26 of 40

What is the aim of the following code?

```
import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
public class FileInputStreamExample{
    public static void main(String[] args) throws IOException{
        File file = new File("/home/avenues/Downloads/WhatsApp Image 2022-08-13 at
8.58.05 PM.jpeg");
        FileInputStream inputStream = new FileInputStream(file);
        byte bytes[] = new byte[(int)file.length()];
        int numOfBytes = inputStream.read(bytes);
        System.out.println("Data copied successfully.....");
        System.out.println(numOfBytes);
    }
}
```

Correct answer: C.

You chose: C.

This question displayed answers in random order during the test.

- A. To write the file
- B. To delete an image file
- C. To read the file through input stream
- D. To create an image file

Points: 1 / 1

Question 27 of 40

What will be the output for the following code?

```
public class Test implements Runnable{  
    public static void main(String[] args) throws InterruptedException{  
        Thread thread = new Thread(new Test());  
        thread.start();thread.start();thread.start();  
        System.out.println(thread.getState());  
    }  
    public void run(){ System.out.println("Welcome");}  
}
```

Correct answer: A.

You chose: B.

This question displayed answers in random order during the test.

- ➡ A. Welcome and IllegalThreadStateException
- ✗ B. Welcome, Welcome and Welcome
- C. Welcome, Welcome and IllegalThreadStateException
- D. IllegalThreadStateException

Points: 0 / 1

Question 28 of 40

Name the map that should be kept in multi-threading environment to keep up the natural order of keys?

Correct answer: C.

You chose: A.

- A. ConcurrentHashMap
- B. concurrentSkipListMap
- C. ConcurrentMap
- D. None of the above

Points: 0 / 1

Question 29 of 40

The number of threads in the Java programme shown below is:

```
public class ThreadExtended extends Thread{  
    public void run(){  
        System.out.println("\nThread is running now\n");  
    }  
    public static void main(String[] args){  
        ThreadExtended threadE = new ThreadExtended();threadE.start();  
    }  
}
```

Correct answer: D.

You chose: A.

This question displayed answers in random order during the test.

- A. 0
- B. 3
- C. 1
- D. 2

Points: 0 / 1

Question 30 of 40

Just-In-Time Compiler increases the efficiency of _____

Correct answer: B.

You chose: D.

This question displayed answers in random order during the test.

A. Resource Allocation

→ B. Compiler

C. Garbage Collector

✗ D. Interpreter

Points: 0 / 1

Question 31 of 40

Which is the correct syntax to make a single dimensional array?

Correct answer: A.

You chose: A.

✓ A. int a[] = new int[5];

B. int a = new int[5];

C. Both of the above

D. None of the above

Points: 1 / 1

Question 32 of 40

Choose the correct set of String class methods from the following:

Correct answer: B.

You chose: D.

This question displayed answers in random order during the test.

A. getBytes, toCharArray, lowerCase

→ B. endsWith, length, intern

C. copyValueOf, format, valueAt

✗ D. charAt, compareTo, containsAll

Points: 0 / 1

Question 33 of 40

Calculate the output of the following code snippet:

```
interface A{ }
class C {}
class D extends C {}
class B extends D implements A{ }
public class Test extends Thread{
    public static void main(String[] args){
        B b = new B();
        if(b instanceof A)
            System.out.println("b is an instance of A");
        if(b instanceof C)
            System.out.println("b is an instance of C");
    }
}
```

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

A. b is an instance of C

✓ B. b is an instance of A followed by b is an instance of C

C. Nothing

D. b is an instance of A

Points: 1 / 1

Question 34 of 40

What is the output of the following code?

```
import java.io.*;
public class Hello{
    public static void printsr(int n){
        int i,j;
        for(i=0;i<n;i++){
            for(j=0;j<=i;j++){
                System.out.print("* ");
            }
            System.out.println();
        }
    }

    public static void main(String[] args){
        int n=5;
        printsr(5);
    }
}
```

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

A. * * * *
* * * *
* * *
* *
*

✓ B. *
* *
* * *
* * * *
* * * * *

Question 35 of 40

When do Java exceptions occur in the course of a program's execution?

Correct answer: B.

You chose: A.

This question displayed answers in random order during the test.

✗ A. Compile Time

→ B. Run Time

C. Can occur any time

D. None of the above

Points: 0 / 1

Question 36 of 40

_____ directly inherits the Object "public boolean equals(Object obj)" method and does not override it

Correct answer: B.

You chose: D.

This question displayed answers in random order during the test.

A. Runnable

→ B. Enum

C. StringBuffer

✗ D. String

Question 37 of 40

Which of the following statement is false?

Correct answer: A.

You chose: D.

This question displayed answers in random order during the test.

- A. Checked & Unchecked exception are detected or occur only in run-time
- B. throws key word is for satisfying javac instead of java
- C. javac by default handles the checked exceptions instead of unchecked exception
- ✗ D. finally block always survives except System.exit(0)

Points: 0 / 1

Question 38 of 40

Which of these is used as a default for member of a class if no access specifier is used for it?

Correct answer: C.

You chose: D.

This question displayed answers in random order during the test.

- A. private
- B. auto
- C. default
- ✗ D. public

Question 39 of 40

int x=100;
int this example, Literal(Constant) is:

Correct answer: **B**.
You chose: **B**.

This question displayed answers in random order during the test.

- A. int
- B. 100
- C. x
- D. =

Points: 1 / 1

Question 40 of 40

Collections.emptySet() is used to get

Correct answer: **D**.
You chose: **A**.

This question displayed answers in random order during the test.

- A. No Such Method
- B. Mutable HashSet
- C. Non-Serializable Set
- D. Immutable Set



Question 1

48.7s



0 pts

What is the output of this program?

```
1. class A
2. {
3.     public int i;
4.     public int j;
5.     A()
6.     {
7.         i=1;
8.         j =2;
9.     }
10. }
11. class B extends A
12. {
13.     int a;
14.     B()
15.     {
16.         super();
17.     }
18. }
19. Class super_use
20. {
21.     Public static void main(String args[])
22.     {
23.         B obj =new B();
24.         System.out.println(obj.i+" "+obj.j)
25.     }
26. }
```

12

Your Answer

21

Runtime Error

Compilation Error

Correct Answers

Your Answers

PREV

NEXT



Question 3

16.3s



0 pts

Why are generics used?

Generics make code more fast

Your Answer

Generics make code more optimized and readable

Generics add stability to your code by making more of your bugs detectable at compile time

Generics add stability to your code by making more of your bugs detectable at a runtime

Correct Answers

Your Answers

PREV

NEXT



Question 5

6.3s 0 pts

Consider the following:

```
class X implements Runnable
{
    public static void main(String args[])
    {
        /* Missing code? */
    }
    public void run() { }
}
```

Which of the following lines of code is suitable to start a thread?

Your Answer

Thread t= new Thread(X);

Thread t= new Thread(X); t.start();

X run = new X(); Thread t= new Thread(run); t.start();

Thread t= new Thread(); x.run();

Correct Answers

Your Answers

PREV

NEXT



Question 6

9s



0 pts

What is coercion?

Your Answer

A:Coercion is a phenomenon of promoting sub class to super class

B: Coercion is a phenomenon of casting super class to sub class

C:Coercion is an changing the data types according to cast operator

D:Coercion is the conversion between different data types done while compiling

Correct Answers

Your Answers

PREV

NEXT



Question 8

8.8s



0 pts

Which of the following is a correct difference between the Iterator and ListIterator?

- Iterator traverses the elements only in forward direction whereas the ListIterator traverses back and forth.

Iterator traverses back and forth while the ListIterator traverses the elements in forward direction.

Iterator traverses the elements in backward direction while the ListIterator moves in forward direction.

Your Answer

Iterator used to iterate array while ListIterator used to iterate ArrayList& LinkedList

Correct Answers

Your Answers

PREV

NEXT



Question 10

4.6s



0 pts

Choose options, which are true.

- A thread is in DEAD/TERMINATED state when it has completed its execution. Once a thread enters dead state, it cannot be made active again.

A thread is in BLOCKED/WAITING/SLEEPING state when it is not eligible to be run by the Scheduler. Thread is alive but is waiting for something.

A thread is RUNNING state when it's the one that is currently, what else to say, Running.

Your Answer

all of these

Correct Answers

Your Answers

PREV

NEXT



Question 11

6.5s



0 pts

The _____ interface should be implemented by any class whose instances are intended to be executed by a thread.

Your Answer

Serializable

Comparable

Collection

Runnable

Correct Answers

Your Answers

PREV

NEXT



Question 12

4.8s



0 pts

Which of these method of Thread class is used to find out the priority given to a thread?

get()

Your Answer

ThreadPriority()

getPriority()

getThreadPriority()

Correct Answers

Your Answers

PREV

NEXT



Question 13

2.7s



0 pts

Which of the following statements is true?

Your Answer

A static method cannot be synchronized

Non-synchronized method can become synchronized if it's being called from a synchronized method

- When a thread call wait() from a synchronized method, it releases the lock

Primitive variables can be protected from concurrent access using synchronized block.

Correct Answers

Your Answers

PREV

NEXT



Question 14

2.6s



0 pts

Which of these method can set the out stream to OutputStream?

setStream()

setosteam()

setOut()

Your Answer

streamtoOstream()

Correct Answers

Your Answers

PREV

NEXT



Question 15

2.2s



0 pts

Which of the following can be referenced by this variable?

Your Answer

The instance variables of a class only

The methods of a class only

The instance variables and methods of a class

The class variable

Correct Answers

Your Answers

PREV

NEXT



Question 17

10.6s 0 pts

Which of the following is not a wrapper class?

String

Your Answer

Integer

Boolean

Character

Correct Answers

Your Answers

PREV

NEXT



Question 18

2.4s



0 pts

finalize method is a method of the class

Your Answer

String

Exception

 Object

None of the above

 Correct Answers Your Answers

PREV

NEXT



Question 19

2.1s



0 pts

Which of these is not a correct statement?

Every class containing abstract method must be declared abstract

Your Answer

Abstract class defines only the structure of the class not its implementation

Abstract class can be initiated by new operator

Abstract class can be inherited

Correct Answers

Your Answers

PREV

NEXT



Question 20

2.5s 0 pts

What is the value returned by function compareTo() if the invoking string is greater than the string compared?

Your Answer

Zero

value less than zero

value greater than zero

none of the mentioned

Correct Answers

Your Answers

PREV

NEXT



Question 21

3.1s



0 pts

What will be the Output of the below code?

```
public class A {  
    public static void main(String[] args)  
    {  
        if (true)  
            break;  
        System.out.println("Hello");  
    }  
}
```

Nothing

Compile time error

Runtime error

Your Answer

Hello

Correct Answers

Your Answers

PREV

NEXT



Question 22

2.4s



0 pts

Which of the following is a correct difference between ArrayList and LinkedList?

Your Answer

ArrayList uses a doubly linked list whereas the LinkedList uses a dynamic array.

- ArrayList uses a dynamic array whereas the LinkedList uses doubly linked list.

ArrayList uses a single linked list whereas the LinkedList uses dynamic array

Both ArrayList and LinkedList are internally using doubly linked list

- Correct Answers

- Your Answers

PREV

NEXT



Question 26

2.2s



0 pts

Which of these exception is thrown by close() and read() methods?

IOException

FileNotFoundException

Your Answer

FileNotFoundException

FileNotFoundException

Correct Answers

Your Answers

PREV

NEXT



Question 27

2.1s



0 pts

```
1. public class TestOne {  
2.     public static void main (String[] args) {  
3.         Thread.sleep(3000);  
4.         System.out.println("sleep");  
5.     }  
6. }
```

Your Answer

A: No error, prints sleep

 B: Compilation error

C: Runtime Error

D: No error & no output

 Correct Answers Your Answers

PREV

NEXT



Question 28

1.8s



0 pts

What will be the output of the following program?

```
public class Test {  
    public static void main(String[] args)  
    {  
        for (int i = 0; i < 10; i++)  
        int x = 10;  
    }  
}
```

Your Answer

No Output

10

Compile Time Error

Runtime Error

Correct Answers

Your Answers

PREV

NEXT



Question 29

1.9s



0 pts

What is the output of this program?

1. **import**java.io.*;
2. **class** files
3. {
4. **Public static void** main(String args[])
5. {
6. File obj =**new**File("/java/system");
7. System.out.print(obj.canWrite());
8. System.out.print(" "+obj.canRead());
9. }
10. }

Your Answer

true false

false true

true true

false false

Correct Answers

Your Answers

PREV

NEXT



Question 30

1.7s



0 pts

The concept of multiple inheritances is implemented in Java by:

- I. Extending two or more classes.
- II. Extending one class and implementing one or more interfaces.
- III. Implementing two or more interfaces

Your Answer

Only (II)

(I) and (II)

(II) and (III)

Only (I)

Correct Answers

Your Answers

PREV

NEXT



Question 31

1.7s



0 pts

What is the process of defining a method in a subclass having same name & type signature as a method in its superclass?

Method overloading

Method overriding

Your Answer

Method hiding

none of the above

Correct Answers

Your Answers

PREV

NEXT



Question 32

1.8s



0 pts

Which statement is true about a static nested class?

You must have a reference to an instance of the enclosing class in order to instantiate it.

- It does not have access to non static members of the enclosing class.

Your Answer

It's variables and methods must be static.

must extend the enclosing class.

Correct Answers

Your Answers

PREV

NEXT



Question 34

3.8s



0 pts

Inner class gets access to

- outer class variables

Your Answer

outer class variables only if we created outer class object in inner class.

inner class variables only

none of the above.

Correct Answers

Your Answers

PREV

NEXT



Question 35

1.4s



0 pts

Which of these class contains the methods print() &println()?

System

Your Answer

System.out

BufferedOutputStream

PrintStream

Correct Answers

Your Answers

PREV

NEXT



Question 36

1.7s



0 pts

Which of the following methods cause the string object referenced by s to be changed?

s.concat()

s.touppercase()

Your Answer

s.replace()

None of the above

Correct Answers

Your Answers

PREV

NEXT



Question 37

2.7s



0 pts

Which is the new method introduced in java 8 to iterate over a collection?

for (String i : StringList)

Your Answer

foreach (String i : StringList)

StringList.forEach()

List.for()

Correct Answers

Your Answers

PREV

NEXT



Question 39

2.6s



0 pts

What does foo.getClass().getMethod("doSomething", null) return?

doSomething method instance

- Method is returned and we can call the method as method.invoke(foo,null);

Your Answer

Class object

Exception is thrown

Correct Answers

Your Answers

PREV

NEXT



Question 2

4.3s



940 pts

```
{  
public static void main(String [] args)  
{  
    PassA p = new PassA();  
    p.start();  
}  
void start()  
{  
    long [] a1 = {3,4,5};  
    long [] a2 = fix(a1);  
    System.out.print(a1[0] + a1[1] + a1[2] + " ");  
    System.out.println(a2[0] + a2[1] + a2[2]);  
}  
long [] fix(long [] a3)  
{  
    a3[1] = 7;  
    return a3;  
}
```

1215

1515

345375

Your Answer

 375375 Correct Answers Your Answers

PREV

NEXT



Question 4

11.4s



840 pts

What is the result of the following code?

```
import java.util.*;  
enum Animals  
{  
    DOG("woof"), CAT("meow"), FISH("burble");  
    String sound;  
    Animals(String s) { sound = s; }  
}  
public class test11 {  
    static Animals a;  
    public static void main(String [] args) {  
        System.out.println(a.DOG.sound + " " +  
            a.FISH.sound);  
    }  
}
```

Multiple compilation errors

Your Answer

woofburble

Compilation fails due to an error on line 3

Correct Answers

Your Answers

PREV

NEXT



Question 7

9.6s



870 pts

Where is String Pool stored?

Java Stack

Your Answer

Java Heap

Permanent Generation

Metaspace

Correct Answers

Your Answers

PREV

NEXT



Question 9

12.4s



830 pts

Which of the following is a correct method to convert the array of strings into a list?

Arrays class `toList()` method

Arrays class `doList()` method

Your Answer

Arrays class `asList()` method

none

Correct Answers

Your Answers

PREV

NEXT



Question 16

12.6s



830 pts

What is the output of the following code?

```
>> enum Season { WINTER, SPRING, SUMMER, FALL};  
>> System.out.println(Season.WINTER.ordinal());
```

Your Answer

0

1

2

3

Correct Answers

Your Answers

PREV

NEXT



Question 23

1.7s



970 pts

Which of these class contains the methods used to write in a file

FileStream

Your Answer

FileInputStream

BufferedOutputStream

FileBufferStream

Correct Answers

Your Answers

PREV

NEXT



Question 24

1.7s



970 pts

Which of the following are methods of the Runnable interface?

Your Answer

run

start

yield

stop

Correct Answers

Your Answers

PREV

NEXT



Question 25

2.4s



960 pts

Which one of the following is a class loader?

Your Answer

bootstrap

compiler

heap

interpreter

Correct Answers

Your Answers

PREV

NEXT



Question 33

1.8s



970 pts

Which collection class allows you to grow or shrink its size and provides indexed access to its elements, but whose methods are not synchronized?

`java.util.HashSet`

`java.util.LinkedHashSet`

`java.util.List`

Your Answer

`java.util.ArrayList`

Correct Answers

Your Answers

PREV

NEXT



Question 38

2.4s



960 pts

Classes that do not implement _____ interface will not have any of their State serialize or deserialized.

List

Single Thread Model

Your Answer

Serializable

Comparable

Correct Answers

Your Answers

PREV

NEXT



Question 40

2.8s



960 pts

Which of the following statements are incorrect?

Your Answer

- Variables declared as final occupy memory

final variable must be initialized at the time of declaration

Arrays in java are implemented as an object

All arrays contain an attribute-length which contains the number of elements stored in the array

Correct Answers

Your Answers

PREV

NEXT

Question 2



7.7s



0 pts



largest time is spent on which of the software development phase?

Your Answer

testing

enhancement

bug fixing

analysis and design

Question 3



7.8s



0 pts



Which data type gets returned from length() method in String class?

double

Your Answer

String

int

number

Question 4



3.8s



0 pts



'Aging' is

keeping track of cache contents

Your Answer

keeping track of what pages are currently residing in memory

keeping track of how many times a given page is referenced

increasing the priority of jobs to ensure termination in a finite time

Question 5



21s



0 pts



RAD Model is high speed implementation of

waterfall model

spiral model

Prototyping model

Your Answer

Component Assembly model

Correct Answers

Your Answers

← PREV

NEXT →

Question 6



2.9s



0 pts



Round robin scheduling is essentially the preemptive version of _____.



FIFO

Shortest job first

Shortes remaining

Your Answer

Longest time first

Correct Answers

Your Answers

← PREV

NEXT →

Question 8



5.4s



0 pts



Is String a primitive data type?

Your Answer

Yes

No

Both



Correct Answers



Your Answers



PREV



NEXT

Question 9



7.8s



0 pts



Which of the following is the best answer, in a modern Linux:

Your Answer

ls and ps are supervisor system utilities

ls and ps are regular system utilities

chrt is a regular system utility

None of the above

Correct Answers

Your Answers

← PREV

NEXT →

Question 10



1.8s



0 pts



In FIFO page replacement algorithm, when a page must be replaced

oldest page is chosen

newest page is chosen

Your Answer

random page is chosen

none of the mentioned



Correct Answers



Your Answers



PREV

NEXT

Question 12



7.4s



0 pts



Which is correct method to convert String into uppercase

changeUpperCase()

convertUpperCase()

Your Answer

toUpper()

toUpperCase()

Question 14



5.6s



0 pts



A General Purpose OS (GPOS) design uses, which of the following:

Your Answer

- High-level applications/frame-works are compiled and linked, with the CORE OS components
- High-level applications/frame-works are compiled and linked, with the system libraries
- High-level applications/frame-works are compiled and linked, with system utilities
- None of the above

Correct Answers

Your Answers

PREV

NEXT

Question 16



10.2s



0 pts



class diagram represents

conceptual design

Your Answer

organization of objects

set of actions

state machine

Question 18



3.7s



0 pts



Preemptive Shortest Job First scheduling is sometimes called:

Your Answer

Fast SJF scheduling

EDF scheduling – Earliest Deadline First

HRRN scheduling – Highest Response Ratio Next

SRTN scheduling – Shortest Remaining Time Next

Question 20



3.3s



0 pts



What is the error in the following code fragment?

```
float average [20];  
average[20] = 15.25;
```

Your Answer

A cast is required

data not initialized

A two-dimensional array is required

Array Out-of-bounds error

Correct Answers

Your Answers

← PREV

NEXT →

Question 21



1.9s



0 pts



if a process/thread is preempted :

it is added to blocked state

it is added to preempted state

it is added to ready state

Your Answer

it is added to stopped state



Correct Answers



Your Answers



PREV

NEXT



Question 22



2.7s



0 pts



To achieve a good design, different modules should have _____

Weak cohesion and low coupling

Weak cohesion and high coupling

Strong cohesion and low coupling

Your Answer

Strong cohesion and high coupling

Correct Answers

Your Answers

← PREV

NEXT →

Question 23



2.7s



0 pts



system libraries are linked to :

device drivers

applications

Your Answer

kernel

none of the above

Question 24



6.7s

0 pts



What is a variable?

Your Answer

Any inputted data

A type of algorithm

A labelled part of the computer's memory

A way of repeating a block of code

Correct Answers

Your Answers

← PREV

NEXT →

Question 25



1.8s



0 pts



_____ does the job of allocating a process to the processor.

Long term scheduler

Short term scheduler

Your Answer

Medium term scheduler

 Dispatcher

Correct Answers

Your Answers

← PREV

NEXT →

Question 26



1.9s



0 pts



If a user's process does not have sufficient execute permissions, for a directory, which of the following is true :

it cannot access the files, under the directory

it cannot update the files, under the directory, but can read their contents

Your Answer

it can read from and write to the files, under the directory

none of the above

Correct Answers

Your Answers

← PREV

NEXT →

Question 27



1.8s



0 pts



Major changes made to software after long periods is also called software reengineering or

perfective maintenance

regressive maintainence

adaptive maintainence

Your Answer

corrective maintainence

Correct Answers

Your Answers

← PREV

NEXT →

Question 28



2.6s



0 pts



Match the level testing can work on

- 1) Acceptance Testing 2) System Testing 3) Integration Testing 4) Unit Testing
a) Client Needs b) Requirements c) Design d) Code

Your Answer

1-d, 2-b, 3-c, 4-a

1-a, 2-b, 3-c, 4-d

1-a, 2-b, 3-d, 4-c

1-a, 2-c, 3-b, 4-d

Correct Answers

Your Answers

PREV

NEXT

Question 29



1.9s



0 pts



Example of Software Configuration Items (SCI) is

SRS

Code

Your Answer

User manual

All of the above

Correct Answers

Your Answers

← PREV

NEXT →

Question 30



1.7s



0 pts



Choose correct purpose of indexOf() in String class.

Your Answer

- returns the index (the position) of the last occurrence of a specified text in a string
- returns the character of the first occurrence of a specified character in a string
- returns the index (the position) of the first occurrence of a specified text in a string (excluding whitespace)
- returns the index (the position) of the first occurrence of a specified text in a string (including whitespace)

Correct Answers

Your Answers

← PREV

NEXT →

Question 32



18.5s



0 pts



Java code to create a non-element array of student marks with the size of 20.

double mark;

double [20] mark = new double;

Your Answer

double [] mark = new mark [20];

double [] mark = new double [20];

Correct Answers

Your Answers

PREV

NEXT

Question 33



6.3s



0 pts



Which of the following is best answer, for a General Purpose OS (GPOS):

Core components of the KERNEL of a GPOS manage hardware resources

Non-core components of a GPOS manage hardware resources

Your Answer

Typically, application developers interact, with KERNEL of a GPOS

None of the above

Question 35



1.8s



0 pts



What is meant by the term iteration?

A list of instructions for completing a task

Repeating a block of code

Your Answer

Giving a value to a variable

Breaking a problem down into simple parts

Correct Answers

Your Answers

← PREV

NEXT →

Question 36



1.7s



0 pts



Bar charts and activity networks are graphical notation which are used to illustrate the

Project Plan

Your Answer

Project dependencies

Project Schedule

Project Risk Analysis

Correct Answers

Your Answers

← PREV

NEXT →

Question 37



1.8s



0 pts



Which of the following would NOT appear as a symbol on a flowchart?

data type

decision

input/output

Your Answer

processing



Correct Answers



Your Answers



PREV



NEXT

Question 39



8.1s



0 pts



Mutual exclusion can be provided by the

Your Answer

Mutex locks

Binary semaphores

Both Mutex locks and binary semaphores

none of the mentioned

Correct Answers

Your Answers

← PREV

NEXT →

Question 40



2.1s



0 pts



A module whose all elements exhibit relationship which involves both data and control flow is said to be
----- cohesive

sequentially

Your Answer

Communicationally

Temporally

Procedurally

Question 7



21s



980 pts



Choose most appropriate purpose of trim() method in String?

to remove white spaces

to get a substring of the string

to cut String at desired index

Your Answer

to remove extra white spaces from start and end of String



Correct Answers



Your Answers



PREV



NEXT

Question 11



7.6s



890 pts



What type of data would your name be?

Real

Boolean

Integer

Your Answer

String

Correct Answers

Your Answers

← PREV

NEXT →

Question 13



13.9s



810 pts



What term is used to describe a variable being given a value?

Equals

Your Answer

Assignment

Input

Algorithm

Correct Answers

Your Answers

← PREV

NEXT →

Question 15



14.2s



810 pts



String txt = "ABCDEFGHIJKLMNPQRSTUVWXYZ";

What is the correct way to find the length of "txt" string?

int len = length(txt);

float len = txt.length();

Your Answer

int len = txt.length();

double len = length(txt);

Correct Answers

Your Answers

← PREV

NEXT →

Question 17



3.7s



950 pts



which of these terms apply to identify quality standards and how to satisfy them?

Quality projections

Your Answer

Quality management

Quality overview

Quality planning

Question 19



3.3s



950 pts



The requirement phase consist of

- a) Problem analysis b) Requirement specification
- c) Requirement validation d) Problem validation

a,b,c

Your Answer

a,b,c,d

a,b,d

a,c,d

Question 31



12.6s



830 pts



The Lines of Code (LOC) size do not include

Compiler Directives

Declarations

Your Answer

Comments

all of the above

Correct Answers

Your Answers

← PREV

NEXT →

Question 34



1.8s



970 pts



Which of the following is the best answer, in a modern General Purpose OS (GPOS):

Your Answer

Each active application is managed, using a single process or multiple processes

Each active application is managed, without using processes

Multiple active applications are managed, using a single common process

None of the above

Correct Answers

Your Answers

← PREV

NEXT →

Question 38



1.7s



970 pts



What must reside in the main memory under all situations in a resident - OS computer?

Linker

Your Answer

Loader

Assembler

Compiler

Question 1



55.4s



0 pts



Disk scheduling includes deciding:

which should be accessed next

order in which disk access requests must be serviced

the physical location of the file

Your Answer

the logical location of the file



Correct Answers



Your Answers



PREV

NEXT



Data Structure Mock CCEE

yogeshwari

Aug. 21, 2022, 10:44 p.m.

Thanks for taking the mock. Schedule of next mock will be shared to you in the group. Please keep an eye on the group.

Your score: 52% 21 / 40

Duration: 0:12:18

1. How many numbers of comparisons will be done in worst case using Binary Search if 1 / 1 point
the number of elements in the array are 32?

Your Answer: ✓ Correct

- 10
- 2
- 5
- 4

2. if the list is a circular linked list with first point to the first node and temp points to the 0 / 1 point
last node .Which of the following code snippet will delete a node, which is after temp?
class Node{

```
int data;
```

```
Node next;
```

```
}
```

Your Answer: ✗ Incorrect

- mynode=first;

```
mynode.next = temp.next;
```

```
mynode.next=first;
```

- mynode=first;

```
temp.next = mynode;
```

```
mynode.next=first;
```

○ temp.next = first.next;

mynode=first;

first=first.next;

mynode.next=null;

○ None of the above

3. In singly linked list if head points to the first node, which of the following code will print data in the last node? 1 / 1 point

Your Answer: **Correct**

temp=head;

while(temp!= null){

temp=temp.next;

}

System.out.println(temp.data);

temp=head;

while(temp.next != null){

temp=temp.next;

}

System.out.println(temp.data);

temp=head;

while(temp.next == null){

temp=temp.next;

}

System.out.println(temp.data);

```
 temp=head;  
  
while(temp == null){  
  
    temp=temp.next;  
  
}  
  
System.out.println(temp.data);
```

4. What is the worst case time complexity of Search() operation in an unbalanced Binary Search Tree having 'n' nodes? 1 / 1 point

Your Answer: ✓ Correct

- O(1)
- O(log n)
- O(n)
- O(nlogn)

5. In computational thinking terms, breaking down a complex problem into smaller, more specific sub-problems is called as _____ 1 / 1 point

Your Answer: ✓ Correct

- Problem Identification
- Decomposition
- Pattern Recognition
- Algorithmic Thinking

6. Consider the stack shown below 0 / 1 point

12 11 34 56 54 54 45

|

top

After performing the following operations in sequence, which value will be at top of the stack?

pop, pop, pop, push 29, push 30, pop, pop, pop

Your Answer: ✗ Incorrect

29

30

✗ 5

✓ 56

7. Which of the given options provides the increasing order of asymptotic complexity of functions f_1, f_2, f_3 and f_4 ? 0 / 1 point

$$f_1(n) = 2^n;$$

$$f_2(n) = n^{(3/2)}$$

$$f_3(n) = n \log n$$

$$f_4(n) = n^{\log n}$$

Your Answer: ✗ Incorrect

✓ f_3, f_2, f_4, f_1

✗ f_3, f_2, f_1, f_4

f_2, f_3, f_1, f_4

f_2, f_3, f_4, f_1

8. Which node pointer should be updated if a new node B is to be inserted in the middle of A and C nodes of a doubly linked list? 1 / 1 point

Your Answer: ✓ Correct

Next pointer of A, Previous Pointer of B, Next Pointer of C, and Previous of C

✓ Next pointer of A, Previous of B, Next of B, and Previous of C

Next Pointer of A, Previous Pointer of A, next pointer of B, and Previous Pointer of C

None of the Above

9. Which of the following algorithm can be used to efficiently sort a linked list? 0 / 1 point

Your Answer: ✗ Incorrect

- Merge Sort
- ✗ ○ Quick Sort
- Heap Sort
- Selection Sort

10. What is the maximum height of any AVL Tree with 7 nodes? Assume that height of a tree with single node is 0. 0 / 1 point

Your Answer: ✗ Incorrect

- 2
- 3
- ✗ ○ 4
- 5

11. The time complexity of merge sort algorithm is _____. 0 / 1 point

Your Answer: ✗ Incorrect

- $O(n)$
- $O(\log n)$
- ✗ ○ $O(n^2)$
- $O(n \log n)$

12. In Hash Table, which collision handling technique results in Secondary Clustering? 0 / 1 point

Your Answer: ✗ Incorrect

- ✗ ○ Mid-Square
- Quadratic Probing
- Linear Probing

Folding

13. Which of the following data structure is BEST suited to implement Priority Queue? 1 / 1 point

Your Answer: ✓ Correct

- Doubly Linked List
- Heap
- Queue using Linked List
- Array

14. The inorder traversal of _____ will yeild a sorted listing of elements 1 / 1 point

Your Answer: ✓ Correct

- Binary Trees
- Binary search trees
- Heaps
- AVL Trees

15. Which of the following is recursive preorder traversal function, if class node is defined as follows? 0 / 1 point

```
class Node{
```

```
    int data;
```

```
    Node left,right;
```

```
    public Node(int key){
```

```
        data = key;
```

```
        left=right=null;
```

```
}
```

Your Answer: ✗ Incorrect

✓ ○ void preorder(Node node){

```
    if(node == null)
```

```
        return;
```

```
        System.out.print(node.data+"----->");
```

```
        preorder(node.left);
```

```
        preorder(node.right);
```

```
}
```

✗ ○ void preorder(Node node){

```
    if(node != null)
```

```
        return;
```

```
        System.out.print(node.data+"----->");
```

```
        preorder(node.left);
```

```
        preorder(node.right);
```

```
}
```

○ void preorder(Node node){

```
    if(node != null)
```

```
        return;
```

```
        preorder(node.left);
```

```
        preorder(node.right);
```

```
        System.out.print(node.data+"----->");
```

```
}
```

```
 void preorder(Node node){  
  
    if(node != null)  
  
        return;  
  
    preorder(node.left);  
  
    preorder(node.right);  
  
    System.out.print(node.data+"----->");  
  
}
```

16. An ADT is defined to be a mathematical model of a user-defined type along with the collection of all _____ operations on that model. 1 / 1 point

Your Answer: ✓ Correct

- Cardinality
- Assignment
- ✓ Primitive
- Structure

17. You are very hungry and you decide to bake a batch by following your grandmother's chocolate chip cookie recipe. Which of the following computational thinking skills required to complete the above task? 1 / 1 point

Your Answer: ✓ Correct

- Abstraction
- ✓ Algorithm Design
- Pattern Recognition
- Decomposition

18. What is the best-case time complexity of Bubble sort to sort an array of 'n' elements? 0 / 1 point

Your Answer: ✗ Incorrect

- O(n^2)
- O($n \log n$)
- ✗ O(1)
- O(n)

19. What does the following return?

1 / 1 point

```
public int getval(Bnode T)
{
    // T = root node
    int value = 0;
    if(T)
    {
        // LC = Left child and RC = Right child
        if((T.LC == NULL) && (T.RC) == NULL))
            value=1;
        else
            value=value+getval(T.LC) + getval(T.RC);
    }
    return value;
}
```

Your Answer: ✓ Correct

- Number of internal nodes in the tree
- height of the tree
- Number of nodes without right sibling in the tree
- ✓ Number of leaf nodes in the tree

Consider the following type declaration for a doubly linked list node:

0 / 1 point

20. class DListNode{

 int data;

 DListNode prev;

 DListNode next;

}

Which of the following statements (in correct order) will correctly insert a newNode, before the node reference by current? Assume that current is neither first nor last node in the linked list.

Your Answer: ✗ Incorrect

- newNode.next=current;current.prev=newNode;newNode.prev=current;current.next = newNode;
- current.prev=newNode;newNode.next = current;newNode.prev=current;
- newNode.prev=current;newNode.next=current;current.prev.next=newNode;current.next.prev=newNode;
- newNode.prev=current.prev;newNode.next=current;current.prev.next=newNode;current.prev=newNode;

21. Which of the following algorithm can be used to detect negative cycle in a Graph?

0 / 1 point

Your Answer: ✗ Incorrect

- Prim
- Krushal
- Dijkstra
- Bellman Ford

22. An algorithm that calls itself directly or indirectly is known as _____.

1 / 1 point

Your Answer: ✓ Correct

- sub algorithm
- Recursive algorithm

- Polish algorithm
- Traversal algoritm

23. If already sorted array is passed to a sorting algorithm, which one will be slowest?

1 / 1 point

Your Answer: ✓ Correct

- Insertion sort
- Selection sort
- Heap sort
- Merge sort

24. What is the time complexity of the following code?

0 / 1 point

```
int sum=0;  
  
for(int i=0;i<n;i++){  
  
    sum=sum+10;  
  
    for(int j=0;j<n;j++){  
  
        sum=sum+j;  
  
        break;  
  
    }  
  
}
```

Your Answer: ✗ Incorrect

- O(n^2)
- O(n)
- O(1)
- O(log n)

1 / 1 point

25. How many stacks are required to implement Queue data structure?

Your Answer: **✓ Correct**

5

1

✓ 2

3

26. Using _____ in java, one can sort the arrays.

0 / 1 point

Your Answer: **✗ Incorrect**

✗ System.sort()

Collection.sort()

✓ Arrays.sort()

Array.sort()

27. _____ is a collision-resolution that searches the hash table for an unoccupied

0 / 1 point

location beginning with the original location that the hash function specifies and continuing at the increments of $1^2, 2^2, 3^2$, and so on

Your Answer: **✗ Incorrect**

✗ Linear Probing

Double Hashing

✓ Quadratic probing

Separate chaining

28. Create a Binary Search Tree for the given set of strings:

0 / 1 point

MAR,MAY,NOV,AUG,APR,JAN,DEC,JULY,FEB,JUN,OCT,SEPT

What are the leaf nodes generated in the tree?

Your Answer: **✗ Incorrect**

APR,FEB,DEC,JULY,SEPT

FEB,JUNE,SEPT

Can't create the tree

None of the above

29. Which data structure is required to convert the infix to prefix notation?

1 / 1 point

Your Answer: **Correct**

Stack

Linked List

Binary Tree

Queue

30. Which algorithm builds up a solution by choosing the option that looks the best at

0 / 1 point

every step.

Your Answer: **Incorrect**

Brute Force algorithm

Greedy algorithm

Recursive algorithm

Backtracking algorithm

31. Which of the following is false about a binary search tree?

0 / 1 point

Your Answer: **Incorrect**

The left child is always lesser than its parent

The right child is always greater than its parent

The left and right sub-trees should also be binary search trees

In order sequence gives decreasing order of elements

The data structure required for Breadth First Traversal on a graph is?

1 / 1 point

32. Your Answer: ✓ Correct

- Stack
- Array
- Queue
- Tree

33. What is the time complexity of following code:

0 / 1 point

```
int a = 0, i = N;  
while (i > 0)  
{  
    a += i;  
    i /= 2;  
}
```

Your Answer: ✗ Incorrect

- O(N)
- O(Sqrt(N))
- O(N / 2)
- O(log N)

34. What is the time complexity of the following code?

1 / 1 point

```
int count(int n)  
{  
    int c = 0;  
    for(int i = n; i > 0; i/= 2)  
        for(int j = 0; j < i; j++)  
            c += 1;  
    return c;  
}
```

Your Answer: ✓ Correct

- O(n^2)
- O($n \cdot \log n$)
- O(n)
- O($n \cdot \log n \cdot \log n$)

35. Which of the following ways can be used to represent a graph?

1 / 1 point

Your Answer: ✓ Correct

- Incidence Matrix
- Adjacency List and Adjacency Matrix
- No way to represent
- Adjacency List, Adjacency Matrix as well as Incidence Matrix

36. Kruskal's Algorithm for finding the Minimum Spanning Tree of a graph is a kind of a?

0 / 1 point

Your Answer: ✗ Incorrect

- DP Problem
- Greedy Algorithm
- Adhoc Problem
- None of the above

37. Which of the following is not part of ADT description?

1 / 1 point

Your Answer: ✓ Correct

- Data
- Operations
- Both of the above
- None of the above

38. In a circular queue, value of r will be

1 / 1 point

Your Answer: ✓ Correct

Your Answer. ▾ Correct

- r=r+1
- r=(r+1)%[Queue_Size-1]
- r=(r+1)%Queue_Size
- r=(r-1)%Queue_Size

39. Any node in the path from root node to the node is called

1 / 1 point

Your Answer: ✓ Correct

- Successor Node
- Ancestor Node
- Internal Node
- None of the above

40. The disadvantage in using circular linked list is

1 / 1 point

Your Answer: ✓ Correct

- It is possible to get into an infinite loop
- Last node points to first node
- Time consuming
- Requires more memory space

Summary - Quizizz

Time/ques

Streak

Medical Career Day
Placed 54 times
10 questions

Question 2 X 16.9s 0 pts

What is the use of Dijkstra algorithm?

Job sequencing

Your Answer

Find minimum spanning tree

Single source shortest path

None of these

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
played 88 times
questions

Proving Acute Care-
IT Event
played 40 times
questions

Some vocabulary about
buying or shopping....
played 1k times
questions

Shopping / Conditionals
played 9k times
questions

Scratch Programming
played 2k times
questions

Type here to search

29°C ENG 19:39 25-08-2022

Summary - Quizizz

Time/ques

Streak

Medical Career Day
Placed 54 times
10 questions

Question 3 X 74s 0 pts

Value returned by Hash Function is called as.....

Digest

Hash value

Your Answer

Hash code

All of these

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
played 88 times
questions

Proving Acute Care-
IT Event
played 40 times
questions

Some vocabulary about
buying or shopping....
played 1k times
questions

Shopping / Conditionals
played 9k times
questions

Scratch Programming
played 2k times
questions

Type here to search

29°C ENG 19:39 25-08-2022

Summary - Quizizz

Time/ques

Streak

Medical Career Day
Placed 34 times
10 questions

Question 7 X 41.7s 0 pts

1. Suppose prevnode, p, nextnode are three consecutive nodes in a Doubly Linked List. Deletion of node p in this Doubly Linked List can be represented by which code snippet?
[getPrev() method returns the prev node and getNext() method returns the next node in DLL.]
[SetPrev() method sets the prev node value and setNext() method sets the next node value in DLL.]

Your Answer:

p.getPrev().setPrev(p.getNext());
p.getNext().setNext(p.getPrev());

p.getPrev().setNext(p.getPrev());
p.getNext().setPrev(p.getNext());

p.getNext().setPrev(p.getPrev());
p.getPrev().setNext(p.getNext());

None of these

Correct Answers Your Answers PREV NEXT

Type here to search

29°C ENG 19:39 25-08-2022

Summary - Quizizz

Time/ques

Streak

Medical Career Day
Placed 34 times
10 questions

Question 9 X 10.6s 0 pts

In _____ the exploration of node is suspended as soon as new unexplored node is reached.

BFS

DFS

Prims algorithm

Kruskal's algorithm

Your Answer:

Correct Answers Your Answers PREV NEXT

Type here to search

29°C ENG 19:39 25-08-2022

Summary - Quizizz

Time/ques Streak

Medical Career Day
Played 34 times
10 questions

Question 10 X 10.6s 0 pts

Partition and exchange type of sort is...

Your Answer: Quick sort

Tree sort

Heap sort

Bubble sort

Correct Answers Your Answers PREV NEXT

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Summary - Quizizz

Time/ques Streak

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10 questions

Question 11 X 17.8s 0 pts

In which of the following tree height of left sub tree and height of right sub tree differ at most by one?

AVL Tree

Expression Tree

Threaded Binary Tree

Your Answer: Binary Search Tree

Correct Answers Your Answers PREV NEXT

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Summary - Quizizz

Time/ques

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Question 13 X 29.2s 0 pts

If the number of records to be sorted is small, then can be efficient.

Merge sort

Heap sort

Selection sort

Your Answer: Bubble sort

Correct Answers Your Answers PREV NEXT

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Summary - Quizizz

Time/ques

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Question 15 X 22.4s 0 pts

Which of the following algorithm design techniques is used in finding all pairs of shortest distances in a graph (Warshall algorithms)?

Dynamic programming

Back Tracking

Your Answer: Greedy

Divide & Conquer

Correct Answers Your Answers PREV NEXT

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Summary - Quizizz

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10 questions

Question 16 X 60.6s 0 pts

The postfix equivalent of prefix expression $* + a b - c d$ is

a b + c d - *

a b c d + - *

Your Answer:

a b + c d * -

a b + - c d *

Correct Answers Your Answers PREV NEXT

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Scratch Programming
Played 2k times
10 questions

Summary - Quizizz

Time/ques Streak

Medical Career Day
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Question 18 X 12.8s 0 pts

Queue can be used to implement

radix sort

quick sort

recursion

Your Answer:

depth first search

Correct Answers Your Answers PREV NEXT

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10 questions

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Played 2k times
10 questions

Summary - Quizizz

Time/ques

Streak

Medical Career Day
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10 questions

Question 19 X 12.5s 0 pts

If you want to store the name and marks of N students, which of the following is the correct choice?

An array of structures which contains name and marks as a field.

A structure containing arrays of Names and arrays of Marks

An array of names and Array of marks

Your Answer

All of the above

Correct Answers Your Answers PREV NEXT

Type here to search

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Summary - Quizizz

Time/ques

Streak

Medical Career Day
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10 questions

Question 20 X 15.8s 0 pts

Depth First Search graph traversal method makes use of data structure.

TREE

STACK

Your Answer

QUEUE

LINKED LIST

Correct Answers Your Answers PREV NEXT

Type here to search

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Time/ques Streak

Medical Career Day
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Question 23 X 13.1s 0 pts

A digraph said to be COMPLETE, if it has N vertices andedges.

N*N
 N-1
 N*(N-1)
 N*(N-1)/2

Your Answer: N*(N-1)

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
Solving Acute Care-IT Event
Some vocabulary about buying or shopping...
Solving / Conditionals
Scratch Programming

Summary - Quizizz

Time/ques Streak

Medical Career Day
Placed 54 times
10 questions

Question 24 X 13.3s 0 pts

The element at the root of heap is

largest
 smallest
 depending on type of heap it may be smallest or largest
 none of the above

Correct Answers Your Answers PREV NEXT

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Time/ques Streak

Medical Career Day
Placed 54 times
10 questions

Question 25 X 30.2s 0 pts

In-order, pre-order and post-order can be applied to

Your Answer: any trees

only binary trees

any trees other than binary trees

None of the above

Correct Answers Your Answers PREV NEXT

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Time/ques Streak

Medical Career Day
Placed 54 times
10 questions

Question 31 X 7.9s 0 pts

Worst case time complexity for linear search algorithm is...

O(n)

O(log n)

Your Answer: O(n^2)

O(n log n)

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
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Time/ques Streak

Medical Career Day
Placed 34 times
10 questions

Question 32 X 9.8s 0 pts

What is the best case complexity of quick sort?

Your Answer: $\Omega(n)$

$\Theta(\log n)$

$\Omega(n \log n)$

$\Omega(\log \log n)$

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
 Played 88 times
 10 questions

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Time/ques Streak

Medical Career Day
Placed 34 times
10 questions

Question 33 X 13s 0 pts

What this code is doing in a Binary search tree?

```
void do_job(BST node){  
    if(node!=NULL)  
    {  
        do_job (node.left());  
        do_job (node.right());  
        cout<<node.data;  
    }  
}
```

Traversing post-order

Your Answer: Traversing pre-order

Traversing in-order

Finding the dept

Correct Answers Your Answers PREV NEXT

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10 questions

Question 37 X 16.3s 0 pts

What is not true for linear collision processing?

Your Answer:

It is easier to program

It may include more collision

It requires space for links

All are true

Correct Answers Your Answers PREV NEXT

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Summary - Quizizz

Time/ques Streak

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10 questions

Question 39 X 19.1s 0 pts

How many nodes are present in binary tree of height 2?

Your Answer:

5

6

7

4

Correct Answers Your Answers PREV NEXT

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Time/ques Streak

Medical Career Day
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10 questions

Question 1 ✓ 7s 900 pts

Pick the odd man out of searching

linear search

binary search

bucket search

none of the above

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
Solved 88 times
10 questions

Proving Acute Care-
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Solved 40 times
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Time/ques Streak

Medical Career Day
Placed 54 times
10 questions

Question 4 ✓ 22.7s 690 pts

Convert the following infix expression into their Postfix form
 $(X^Y)/(A^B)$

/ ^ XY * A B

XY ^ AB ^ /

X ^ Y AB ^ /

none of the above

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
Solved 88 times
10 questions

Proving Acute Care-
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Solved 1k times
10 questions

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Solved 9k times
10 questions

Scratch Programming
Solved 2k times
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Time/ques Streak

Medical Career Day
Placed 54 times
10 questions

Question 5 ✓ 8.6s 880 pts

What is the worst-case performance of Selection sort algorithm?

O(log n)
 Your Answer: O(n²)
 O(n)
 O(n log n)

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
 Played 88 times
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Time/ques Streak

Medical Career Day
Placed 54 times
10 questions

Question 6 ✓ 12.9s 820 pts

What is the following statement true?

A spanning is minimum set of edges in Graph that contains no cycle connect all the vertices.

A spanning is minimum set of edges in Graph that connect all vertices.

A Graph will have only one possible spanning tree.

None of the above.

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
 Played 88 times
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Summary - Quizizz

Time/ques Streak

Medical Career Day
Placed 54 times
10 questions

Question 8 ✓ 7.2s 900 pts

We can efficiently reverse a string using a

linear queue

circular queue

stack

doubly linked list

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
Played 88 times
10 questions

Proving Acute Care-
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10 questions

Scratch Programming
Played 2k times
10 questions

Summary - Quizizz

Time/ques Streak

Medical Career Day
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10 questions

Question 12 ✓ 15.9s 780 pts

A tree node with no children is called as _____ node.

Your Answer:
 Leaf node

Root node

Parent node

Ancestor node

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
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Time/ques Streak

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Question 14 ✓ 52s 930 pts

Correct Answers Your Answers PREV NEXT

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Played 1k times
10 questions

Shopping / Conditionals
Played 9k times
10 questions

Scratch Programming
Played 2k times
10 questions

Which of the following are related to stack

push

pop

LIFO

All of the above

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Question 17 ✓ 14.7s 800 pts

Correct Answers Your Answers PREV NEXT

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Shopping / Conditionals
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10 questions

Scratch Programming
Played 2k times
10 questions

Which of the following are related to stack

push

pop

LIFO

All of the above

Summary - Quizizz

Time/ques Streak

Medical Career Day
Placed 34 times
10 questions

Question 21 ✓ 50s 600 pts

Identify the correct sequence of below actions for implementing decisions?

I. Create an action plan
II. Prioritize actions and assign roles
III. Break solution into action steps
IV. Follow-up at milestones

Your Answer: I, III, II, IV
 I, II, III, IV
 I, IV, II, III
 IV, III, II, I

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
Proving Acute Care-IT Event
Some vocabulary about buying or shopping...
Sorting / Conditionals
Scratch Programming

Type here to search

Summary - Quizizz

Time/ques Streak

Medical Career Day
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10 questions

Question 22 ✓ 20.3s 720 pts

What sorting algorithms have equal best case and worst case time complexity?

heap and selection sort
 Insertion sort & merge sort
Your Answer: merge sort and heap sort
 None of these

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
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Some vocabulary about buying or shopping...
Sorting / Conditionals
Scratch Programming

Summary - Quizizz

Time/ques Streak

Medical Career Day
Placed 54 times
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Question 26 ✓ 20.8s 720 pts

1. Statement 1: When applying Backtracking algorithm, all choices made can be undone when needed.
Statement 2: When applying Backtracking algorithm, the worst case scenario is, it exhaustively tries all paths, traversing the entire search space

Your Answer: Both, Statement 1 and 2, are true

Statement 1 is true, Statement 2 is false

Statement 2 is true, Statement 1 is false

Both, Statement 1 and 2, are false

Correct Answers Your Answers PREV NEXT

Type here to search

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Summary - Quizizz

Time/ques Streak

Medical Career Day
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Question 27 ✓ 24.5s 670 pts

If graph G has no edges then corresponding adjacency matrix is

unit matrix

Your Answer: zero matrix

matrix with all 1's

None of the above

Correct Answers Your Answers PREV NEXT

Type here to search

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Question 28 ✓ 9.7s 870 pts

The inorder traversal of some binary tree produces the sequence DBEAF, and the postorder traversal of the same tree produced the sequence DEBFCA. Which of the following is correct preorder traversal sequence?

DBAEFC
 ABEDFC
 Your Answer: ABDECF
 none of the above

Correct Answers Your Answers PREV NEXT

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Scratch Programming
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 10 questions

Summary - Quizizz

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Question 29 ✓ 27s 640 pts

Construct a binary search tree (BST) out of the following sequence of integers. The constructed tree should also satisfy the AVL criteria. Assume that in our BST – for every node, left subtree values are less than the node and right subtree values are greater than nodes.
70, 30, 50, 90, 110, 80, 60
What is the order in which the rotations will be performed while constructing the tree?

Left Right Left Right
 Right Left Right Left Right
 Right Left Right Left
 Your Answer: Left Right Left Right Left

Correct Answers Your Answers PREV NEXT

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Time/ques Streak

Medical Career Day
Placed 34 times
10 questions

Question 30 ✓ 11.1s 950 pts

Which of the following types of Linked List support forward and backward traversal?

Singly Linked List
 Doubly Linked List
 Circular Singly Linked List
 All of these

Your Answer: Doubly Linked List

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
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Time/ques Streak

Medical Career Day
Placed 34 times
10 questions

Question 34 ✓ 13.7s 810 pts

Which of the following are not Associative Containers?

priority queue
 map
 multimap
 multiset

Your Answer: priority queue

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
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questions

cratch Programming
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questions

Summary - Quizizz

Time/ques Streak

Medical Career Day
Placed 34 times
10 questions

Question 35 ✓ 11.7s 840 pts

Deleting a node in a linked list is a simple matter of using the delete operator to free the node's

Your Answer: True False

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
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10 questions

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10 questions

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opping / Conditionals
Played 9k times
10 questions

Scratch Programming
Played 2k times
10 questions

Summary - Quizizz

Time/ques Streak

Medical Career Day
Placed 34 times
10 questions

Question 36 ✓ 7.5s 890 pts

Which of the following are data structures

stack queue linked list

Your Answer: all of the above

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
Played 88 times
10 questions

Proving Acute Care-
IT Event
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Scratch Programming
Played 2k times
10 questions

Summary - Quizizz

Time/ques

Streak

Medical Career Day
Placed 54 times
10 questions

Question 38 ✓ 11.6s 840 pts

The integrity of transmitted data can be verified by using

Your Answer: Hash Message Authentication Code (HMAC)

Timestamp comparison

Data length comparison

None of these

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
played 88 times
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Summary - Quizizz

Time/ques

Streak

Medical Career Day
Placed 54 times
10 questions

Question 40 ✓ 12.1s 830 pts

What is the recursive traversing of Pre-order traversal

Your Answer: visit the root node, traverse the left sub-tree, and traverse the right sub-tree

traverse the left sub-tree, visit the root node and traverse the right sub-tree

traverse the left sub-tree, traverse the right sub-tree, and visit the root node

none of the above

Correct Answers Your Answers PREV NEXT

Fundamentals of data structures & Linked list
played 88 times
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Database Technologies(DBT) Mock CCEE

Total points 17/40 

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yogeshwaribulbule@gmail.com

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Yogeshwari Gajanan Bulbule

Mobile No *

781040756

From which CDAC Centre are you? *

CDAC Mumbai(Kharhgar)



Untitled section

2 of 5 points



✓ Which column attribute enables the generation of sequential numbers automatically for identification? 1/1

- AUTO_INCREMENT ✓
- UNSIGNED
- IDENTIFY
- DESCRIBE

✓ When you see SQL statements to create or modify the structure of a database, SQL is being used as : 1/1

- a Data Manipulation Language(DML)
- a Database Management Solution(DBMS)
- a Data Definition Language(DDL) ✓
- a Data Control Language(DCL)



X Which of the following is a wrong statement?

0/1

- A subquery can be nested with another subquery
- We can use subquery in clauses such as SELECT, INSERT, UPDATE, DELETE X
- A MySQL subquery is called an inner query while the query that contains the subquery is called an outer query
- A subquery cannot return more than one value

Correct answer

- A subquery cannot return more than one value

X Which of the following is a wrong statement?

0/1

- WITH CHECK OPTION in view is applicable only for updatable views.
- Different views can be created on the same table for different users. X
- A view can hide the complexity that exists in multiple table join.
- We cannot use WITH CHECK OPTION while creating a view.

Correct answer

- We cannot use WITH CHECK OPTION while creating a view.



✗ Which index maintenance task discards the entire index and recreates it? 0/1

- Refresh
- Remake
- Reorganize
- Rebuild

✗

Correct answer

- Rebuild

Untitled section

3 of 5 points

✗ Which of the following is a correct statement? 0/1

- When compared to relational databases, NoSQL databases are more scalable and provide superior performance.
- Non-Relational databases require that schemas be defined before you can add data.
- NoSQL databases are built to allow the insertion of data with a predefined schema
- SQL Server is a type of NoSQL Database

✗

Correct answer

- When compared to relational databases, NoSQL databases are more scalable and provide superior performance.



✓ What is the purpose of a foreign key?

1/1

- Foreign keys are the unique identifier for the table
- Foreign keys refer to the primary key in another table to link the two tables together ✓
- Foreign keys refer to a foreign key in another table to link the two tables together
- Foreign keys are used to update a row in a table

✓ A query that is execute inside of another query is called as _____

1/1

- Embedded Query
- Subquery ✓
- Secondary Query
- Join Query

✓ Which operator is used to test whether or not a value lies within a specific range?

1/1

- LIKE
- BETWEEN ✓
- IN
- FOR



✗ How can a constraint be placed on a table where a field will contain the value "Rohan" if nothing is provided? 0/1

- CREATE TABLE People(FirstName TEXT CONSTRAINT "Rohan", address TEXT);
- CREATE TABLE People(FirstName TEXT DEFAULT "Rohan", address TEXT);
- CREATE TABLE People(FirstName TEXT DEFAULT("Rohan"), address TEXT);
- CREATE TABLE People(FirstName TEXT DEFAAULT= "Rohan", address TEXT); ✗

Correct answer

- CREATE TABLE People(FirstName TEXT DEFAULT "Rohan", address TEXT);

Untitled section

1 of 5 points

✗ The names of columns can be altered in a query's result by using the _____ keyword. 0/1

- NAMED
- RENAME
- ALIAS ✗
- AS

Correct answer

- AS



✖ Identify the wrong statement from the following:

0/1

- Primary key cannot hold NULL values
- Unique Key can hold NULL values
- A Primary Key in a table can be referred to as a Foreign Key in another table
- One or more fields can be declared as a unique key

✖

Correct answer

- Unique Key can hold NULL values

✓ How many primary keys can we have in an MySQL table?

1/1

- Only 1
- Only 2
- Depends on no of Columns
- Depends on DBA

✓



✗ To iterate the cursor and return more documents, which one of the following keyword in the mongo shell would we type?

0/1

- Cursor
- it
- next
- more

✗

Correct answer

- next

✗ Which of the following is a wrong statement?

0/1

- In MongoDB, field names cannot start with the dollar sign (\$) character
- In MongoDB, field names cannot contain dot(.) character
- BSON documents cannot have more than one field with the same name
- BSON is a serialization format encoding format for JSON

✗

Correct answer

- BSON documents cannot have more than one field with the same name

Untitled section

1 of 5 points



X Identify the correct statement from the following:

0/1

- We cannot use where clause with DELETE command.
- TRUNCATE command delete all rows of a table in one go:
- DELETE command is comparatively faster than TRUNCATE command
- In case of DROP statement, we can restore the table using ROLLBACK statement X

Correct answer

- TRUNCATE command delete all rows of a table in one go:

✓ What does "OPEN cursor_name" statement would do when working with cursors in MYSQL (cursor_name is any string value eg: OPEN rowsToProcess) 1/1

- Opens a previously declared cursor
- Fetches the next row for the SELECT statement associated with the specified cursor ✓
- Declares a cursor
- Closes a cursor



✗ To get all the rows that are common in both tables based on the condition 0/1 specified, use _____.

- Self Join
- Inner Join
- Outer Join
- Full Join

✗

Correct answer

- Inner Join

✗ In MySQL, if you would like to throw your own exceptions, you can do so by 0/1 changing SQLSTATE using _____ keyword.

- SIGNAL
- SQLEXCEPTION
- DECLARE
- END

✗

Correct answer

- SIGNAL



✗ Which of the following is not a NoSQL database?

0/1

- SQL server
- MongoDB
- Cassandra
- Hbase

✗

Correct answer

- SQL server

Untitled section

1 of 5 points

✗ How are transactions handled within a database?

0/1

- Failed operations are ignored, and the transaction continues with the successful operations
- if any of the operations fails, then those operations are flagged for review at the end of the transaction.
- If any of the operations fails, then the entire group of operations is deleted from the database?
- if any of the operations fails, then the entire group of operations fail.

✗

Correct answer

- if any of the operations fails, then the entire group of operations fail.



✗ Which of the following is a wrong statement?

0/1

- MySQL removes the temporary table automatically when the session ends or the connection terminated ✗
- A temporary table is only available and accessible to the client
- A temporary table can have the same name as a normal table in a database.
- MySQL does not support Temporary Table

Correct answer

- MySQL does not support Temporary Table

✓ For which of the following MySQL Triggers are not supported?

1/1

- delete
- update
- insert
- views ✓



✖ When you use an aggregate function without a groupby clause, how many results do you expect? 0/1

- One
- Two
- Zero
- All the records in a table

✖

Correct answer

- One



- ✖ Two tables are defined as table1 and table 2 below: 0/1
What will the output when the below query is executed ?
SELECT table1.upperbirth, table2.lowerbirth FROM table1 JOIN table2 on table1.id=table2.id

table1	
id	upperbirth
0	S0
1	S1

table2	
id	lowerbirth
1	B0
2	B1

upperbirth	lowerbirth
S1	B0

Option 1

upperbirth	lowerbirth
S0	NULL
S1	B0

Option 2 ✖

upperbirth	lowerbirth
0	S0
2	B1

Option 3

upperbirth	lowerbirth
S1	B0
NULL	B1

Option 4

Correct answer

Option 1

Untitled section

2 of 5 points

✗ Which code returns the only column pgdac, pgdbda and pgdesd from the cdac table? 0/1

- SELECT pgdac, pgdbda, pgdesd FROM cdac;
- SELECT pgdacpgdbdapgdesd FROM cdac;
- SELECT * from cdacpgdac, pgdbda,pgdesd; ✗
- SELECT *, pgdac, pgdbda, pgdesd FROM cdac;

Correct answer

- SELECT pgdac, pgdbda, pgdesd FROM cdac;

✗ Identify the correct statement from the following: 0/1

- LIKE clause can work with only one operator %
- LIKE clause cannot work with operator _
- LIKE clause can work with two operators % and _
- LIKE clause can work with operators % and ? ✗

Correct answer

- LIKE clause can work with two operators % and _



✓ Which of the these tasks can you accomplish using SQL as a DML?

1/1

- Inserting a record into the table
- Deleting the database
- Allowing a new user access to read data from a table
- Removing a column from a table



✗ What is the difference between a PRIMARY KEY and a UNIQUE KEY?

0/1

- Primary key can store null value, whereas a unique key cannot store null value
- Primary key has unique and not null value, whereas a unique key has unique values
- Primary key cannot be a date variable whereas unique key can be
- Primary key has unique values whereas a unique key has unique and not null value



Correct answer

- Primary key has unique and not null value, whereas a unique key has unique values

✓ Which of the below is not a valid TCL command?

1/1

- SAVEPOINT
- COMMIT
- ROLLBACK
- REVOKE



Untitled section

4 of 5 points

✓ Which of the following is not a MySQL Storage Engine? 1/1

- MyISAM
- InnoDB
- CSV
- FEDERAL



✓ What is the latest SQL server version? 1/1

- SQL Server 2021
- SQL Server 2020
- SQL Server 2022
- SQL Server 2019



✗ Which of the following is a wrong statement? 0/1

- MySQL cursor is by default asensitive ✗
- An insensitive cursor performs faster than an asensitive cursor
- MySQL cursor is read-only
- MySQL cursor is non-scrollable

Correct answer

- An insensitive cursor performs faster than an asensitive cursor



✓ What is a complex view?

1/1

- A view that is created from only one table
- A view that is created from more than one table ✓
- A view that does not contain groups of data
- A view that is used to update the data in the tables

✓ Which of the following is the correct IF statement syntax?

1/1

- IF boolean_expression { statement_block} FI
- IF boolean_expression START { statement_block} END
- IF boolean_expression BEGIN{ statement_block} END ✓
- IF boolean_expression START { statement_block} FI

Untitled section

3 of 5 points

✓ The standard user and application program and statement interface(API) 1/1
of a relational database is the

- Structured Query Language ✓
- Sequential Query Language
- Relational Query Language
- Standard Query Language



✓ Which of the following function returns the current date and time?

1/1

- CURRENT_TIMESTAMP
- TIMESTAMP
- CURDATE
- CURTS



✓ Which of the following command is used to insert data into collection in MongoDB?

1/1

- db.COLLECTION_NAME.update(document)
- db.COLLECTION_NAME.insert(document)
- db.COLLECTION_NAME.create(document)
- db.COLLECTION_NAME.insertOne(document)



✗ Which syntax is followed by MySQL for stored routines?

0/1

- SQL:2000
- SQL:2003
- SQL:2005
- None of the above



Correct answer

- SQL:2003



✗ The __command can be used to show the metadata regarding the table 0/1 created.

SHOW

✗

EXPLAIN

FIND

DESC

Correct answer

DESC

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Database Technologies(DBT) Mock CCEE

Total points 14/40 

Email *

ashokdgate@gmail.com

0 of 0 points

Name *

Ashok Pate

Mobile No *

9284926333

From which CDAC Centre are you? *

CDAC Mumbai(Kharhgar)



Untitled section

2 of 5 points



✓ Which column attribute enables the generation of sequential numbers automatically for identification? 1/1

- AUTO_INCREMENT
- UNSIGNED
- IDENTIFY
- DESCRIBE



✓ When you see SQL statements to create or modify the structure of a database, SQL is being used as : 1/1

- a Data Manipulation Language(DML)
- a Database Management Solution(DBMS)
- a Data Definition Language(DDL)
- a Data Control Language(DCL)



✗ Which of the following is a wrong statement? 0/1

- A subquery can be nested with another subquery
- We can use subquery in clauses such as SELECT, INSERT, UPDATE, DELETE
- A MySQL subquery is called an inner query while the query that contains the subquery is called an outer query
- A subquery cannot return more than one value



Correct answer

- A subquery cannot return more than one value



✖ Which of the following is a wrong statement?

0/1

- WITH CHECK OPTION in view is applicable only for updatable views.
- Different views can be created on the same table for different users. ✖
- A view can hide the complexity that exists in multiple table join.
- We cannot use WITH CHECK OPTION while creating a view.

Correct answer

- We cannot use WITH CHECK OPTION while creating a view.

✖ Which index maintenance task discards the entire index and recreates it? 0/1

- Refresh ✖
- Remake
- Reorganize
- Rebuild

Correct answer

- Rebuild

Untitled section

3 of 5 points



✖ Which of the following is a correct statement?

0/1

- When compared to relational databases, NoSQL databases are more scalable and provide superior performance.
- Non-Relational databases require that schemas be defined before you can add ✖ data.
- NoSQL databases are built to allow the insertion of data with a predefined schema
- SQL Server is a type of NoSQL Database

Correct answer

- When compared to relational databases, NoSQL databases are more scalable and provide superior performance.

✓ What is the purpose of a foreign key?

1/1

- Foreign keys are the unique identifier for the table
- Foreign keys refer to the primary key in another table to link the two tables ✓
- Foreign keys refer to a foreign key in another table to link the two tables together
- Foreign keys are used to update a row in a table



✗ A query that is execute inside of another query is called as _____

0/1

- Embedded Query
- Subquery
- Secondary Query
- Join Query

✗

Correct answer

- Subquery

✓ Which operator is used to test whether or not a value lies within a specific range? 1/1

- LIKE
- BETWEEN
- IN
- FOR

✓

✓ How can a constraint be placed on a table where a field will contain the value "Rohan" if nothing is provided? 1/1

- CREATE TABLE People(FirstName TEXT CONSTRAINT "Rohan", address TEXT);
- CREATE TABLE People(FirstName TEXT DEFAULT "Rohan", address TEXT);
- CREATE TABLE People(FirstName TEXT DEFAULT("Rohan"), address TEXT);
- CREATE TABLE People(FirstName TEXT DEFAAULT= "Rohan", address TEXT);

✓

Untitled section

1 of 5 points

✗ The names of columns can be altered in a query's result by using the _____ keyword.

0/1

- NAMED ✗
- RENAME
- ALIAS
- AS

Correct answer

- AS

✓ Identify the wrong statement from the following:

1/1

- Primary key cannot hold NULL values
- Unique Key can hold NULL values ✓
- A Primary Key in a table can be referred to as a Foreign Key in another table
- One or more fields can be declared as a unique key

✗ How many primary keys can we have in an MySQL table?

0/1

- Only 1
- Only 2
- Depends on no of Columns ✗
- Depends on DBA

Correct answer

- Only 1



✖ To iterate the cursor and return more documents, which one of the following keyword in the mongo shell would we type?

0/1

- Cursor
- it
- next
- more

✖

Correct answer

- next

✖ Which of the following is a wrong statement?

0/1

- In MongoDB, field names cannot start with the dollar sign (\$) character
- In MongoDB, field names cannot contain dot(.) character
- BSON documents cannot have more than one field with the same name
- BSON is a serialization format encoding format for JSON

✖

Correct answer

- BSON documents cannot have more than one field with the same name

Untitled section

2 of 5 points



X Identify the correct statement from the following:

0/1

- We cannot use where clause with DELETE command. X
- TRUNCATE command delete all rows of a table in one go:
- DELETE command is comparatively faster than TRUNCATE command
- In case of DROP statement, we can restore the table using ROLLBACK statement

Correct answer

- TRUNCATE command delete all rows of a table in one go:

X What does "OPEN cursor_name" statement would do when working with cursors in MYSQL (cursor_name is any string value eg: OPEN rowsToProcess)

0/1

- Opens a previously declared cursor X
- Fetches the next row for the SELECT statement associated with the specified cursor
- Declares a cursor
- Closes a cursor

Correct answer

- Fetches the next row for the SELECT statement associated with the specified cursor



✓ To get all the rows that are common in both tables based on the condition 1/1 specified, use _____.

- Self Join
- Inner Join ✓
- Outer Join
- Full Join

✗ In MySQL, if you would like to throw your own exceptions, you can do so by 0/1 changing SQLSTATE using _____ keyword.

- SIGNAL
- SQLEXCEPTION ✗
- DECLARE
- END

Correct answer

- SIGNAL

✓ Which of the following is not a NoSQL database? 1/1

- SQL server ✓
- MongoDB
- Cassandra
- Hbase



Untitled section

2 of 5 points

✓ How are transactions handled within a database?

1/1

- Failed operations are ignored, and the transaction continues with the successful operations
- if any of the operations fails, then those operations are flagged for review at the end of the transaction.
- If any of the operations fails, then the entire group of operations is deleted from the database?
- if any of the operations fails, then the entire group of operations fail. ✓

✗ Which of the following is a wrong statement?

0/1

- MySQL removes the temporary table automatically when the session ends or the connection terminated
- A temporary table is only available and accessible to the client
- A temporary table can have the same name as a normal table in a database. ✗
- MySQL does not support Temporary Table

Correct answer

- MySQL does not support Temporary Table



✗ For which of the following MySQL Triggers are not supported?

0/1

- delete
- update
- insert
- views

✗

Correct answer

- views

✓ When you use an aggregate function without a groupby clause, how many results do you expect? 1/1

- One
- Two
- Zero
- All the records in a table

✓



✖ Two tables are defined as table1 and table 2 below:

0/1

What will the output when the below query is executed ?

SELECT table1.upperbirth, table2.lowerbirth FROM table1 JOIN table2 on table1.id=table2.id

table1	
id	upperbirth
0	S0
1	S1

table2	
id	lowerbirth
1	B0
2	B1

upperbirth	lowerbirth
S1	B0

Option 1

upperbirth	lowerbirth
S0	NULL
S1	B0

Option 2 ✖

upperbirth	lowerbirth
0	S0
2	B1

Option 3

upperbirth	lowerbirth
S1	B0
NULL	B1

Option 4

Correct answer

Option 1



Untitled section

1 of 5 points

✗ Which code returns the only column pgdac, pgdbda and pgdesd from the cdac table? 0/1

- SELECT pgdac, pgdbda, pgdesd FROM cdac;
- SELECT pgdacpgdbdapgdesd FROM cdac;
- SELECT * from cdacpgdac, pgdbda,pgdesd;
- SELECT *, pgdac, pgdbda, pgdesd FROM cdac; ✗

Correct answer

- SELECT pgdac, pgdbda, pgdesd FROM cdac;

✓ Identify the correct statement from the following: 1/1

- LIKE clause can work with only one operator %
- LIKE clause cannot work with operator _
- LIKE clause can work with two operators % and _ ✓
- LIKE clause can work with operators % and ?



✖ Which of the these tasks can you accomplish using SQL as a DML?

0/1

- Inserting a record into the table
- Deleting the database
- Allowing a new user access to read data from a table
- Removing a column from a table

✖

Correct answer

- Inserting a record into the table

✖ What is the difference between a PRIMARY KEY and a UNIQUE KEY?

0/1

- Primary key can store null value, whereas a unique key cannot store null value
- Primary key has unique and not null value, whereas a unique key has unique values
- Primary key cannot be a date variable whereas unique key can be
- Primary key has unique values whereas a unique key has unique and not null value

✖

Correct answer

- Primary key has unique and not null value, whereas a unique key has unique values



✗ Which of the below is not a valid TCL command?

0/1

- SAVEPOINT
- COMMIT
- ROLLBACK
- REVOKE

✗

Correct answer

- REVOKE

Untitled section

1 of 5 points

✗ Which of the following is not a MySQL Storage Engine?

0/1

- MyISAM
- InnoDB
- CSV
- FEDERAL

✗

Correct answer

- FEDERAL



X What is the latest SQL server version?

0/1

- SQL Server 2021
- SQL Server 2020
- SQL Server 2022
- SQL Server 2019

X

Correct answer

- SQL Server 2019

✓ Which of the following is a wrong statement?

1/1

- MySQL cursor is by default asensitive
- An insensitive cursor performs faster than an asensitive cursor
- MySQL cursor is read-only
- MySQL cursor is non-scrollable

✓**X** What is a complex view?

0/1

- A view that is created from only one table
- A view that is created from more than one table
- A view that does not contain groups of data
- A view that is used to update the data in the tables

X

Correct answer

- A view that is created from more than one table



✖ Which of the following is the correct IF statement syntax?

0/1

- IF boolean_expression { statement_block} FI
- IF boolean_expression START { statement_block} END ✖
- IF boolean_expression BEGIN{ statement_block} END
- IF boolean_expression START { statement_block} FI

Correct answer

- IF boolean_expression BEGIN{ statement_block} END

Untitled section

2 of 5 points

✖ The standard user and application program and statement interface(API) 0/1
of a relational database is the

- Structured Query Language
- Sequential Query Language
- Relational Query Language ✖
- Standard Query Language

Correct answer

- Structured Query Language



✓ Which of the following function returns the current date and time?

1/1

- CURRENT_TIMESTAMP
- TIMESTAMP
- CURDATE
- CURTS



✗ Which of the following command is used to insert data into collection in MongoDB?

0/1

- db.COLLECTION_NAME.update(document)
- db.COLLECTION_NAME.insert(document)
- db.COLLECTION_NAME.create(document)
- db.COLLECTION_NAME.insertOne(document)



Correct answer

- db.COLLECTION_NAME.insert(document)

✓ Which syntax is followed by MySQL for stored routines?

1/1

- SQL:2000
- SQL:2003
- SQL:2005
- None of the above



✗ The __command can be used to show the metadata regarding the table 0/1 created.

- SHOW
- EXPLAIN ✗
- FIND
- DESC

Correct answer

- DESC

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Question 2 X 10.5s 0 pts

_____ holds the definitions of all of the data tables.

Your Answer: database data dictionary data mining data source

Correct Answers Your Answers ← PREV NEXT →

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Question 3 X 14.2s 0 pts

How should a many-to-many relationship be handled?

Your Answer: By adding a join table By adding an intersection table By adding union table By adding Cartesian table

Correct Answers Your Answers ← PREV NEXT →

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Time/ques Streak Python Pandas Played 1k times 20 questions

Question 5 X 14.6s 0 pts

The value of INSTR('CALIFORNIA','A') is

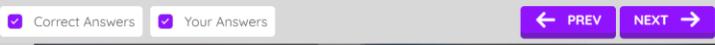
2

1

Your Answer

10

9

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Question 6 X 20.7s 0 pts

----- loop if used properly can be used to ensure that the statements within the loop are executed iteratively but at least once.

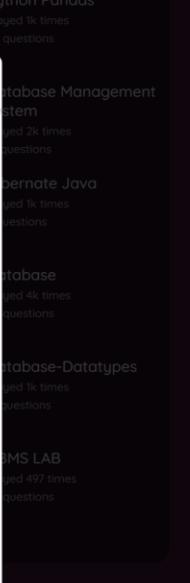
Repeat

While loopend loop;

for I in 1:10 loop end loop;

Your Answer

All of the above

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Summary - Quizizz X Summary - Quizizz X + [quizizz.com/join/game/U2FsdGVkX1%252FU7xlfznNboJ%252FAvnQdQhCvaFtUy6FqNAI2SCEiATnllunFZkw1ChtKCWLV8n8l0kQYKEXvzUug%253D%253D?gameType=async&page...](https://quizizz.com/join/game/U2FsdGVkX1%252FU7xlfznNboJ%252FAvnQdQhCvaFtUy6FqNAI2SCEiATnllunFZkw1ChtKCWLV8n8l0kQYKEXvzUug%253D%253D?gameType=async&page) 

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Question 7 X 5.9s 0 pts

Omitting the WHERE clause from a DELETE statement has which of the following effects?

Your Answer: The delete statement will remove all records from the table.

The delete statement will fail because there are no records to delete.
 The delete statement will prompt the user to enter the criteria for the deletion.
 The delete statement will fail because of syntax error.

Correct Answers **Your Answers** ← PREV NEXT →

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Question 9 X 16.6s 0 pts

Logical operator _____ has higher precedence than OR.

Your Answer: Both of the above

NOT
 AND
 None of the above

Correct Answers **Your Answers** ← PREV NEXT →

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Question 10 X 18.3s 0 pts

The MySQL blocks can contain _____ & _____ statements

Your Answer: DML,DCL

DML,DDL

GRANT,REVOKE

TCL,DML

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Question 11 X 3.9s 0 pts

In a SELECT statement, the WHERE clause is used to retrieve rows from _____.

a. Server RAM to client end

Your Answer: b. Server RAM to server disk

c. Server disk to server RAM

d. Client RAM to server end

Correct Answers Your Answers ← PREV NEXT →

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Question 14 X 11.3s 0 pts

Comments in a MySQL code are inserted using

A) --

B) /* */

C) BOTH A & B

Your Answer: #

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Question 15 X 17.2s 0 pts

The query associated with a cursor is executed in

Your Answer: Declare phase

Open phase

Fetch phase

Close phase

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Question 16 X 8.7s 0 pts

You added a PHONE-NUMBER column of INT data type to an existing EMPLOYEES table. The EMPLOYEES table already contains records of 100 employees. Now, you want to enter the phone numbers of each of the 100 employees into the table some of the employees may not have a phone number available. Which data manipulation operation do you perform?

MERGE
Your Answer
 INSERT
 UPDATE
 ADD

Correct Answers Your Answers ← PREV NEXT →

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Question 17 X 7.6s 0 pts

A COMMIT statement

Saves the previous changes
Your Answer
 Saves the changes for the current session
 Saves the changes for all sessions
 None of the above

Correct Answers Your Answers ← PREV NEXT →

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Question 19 X 6s 0 pts

Which one is a TCL (or DTL) statement?

Your Answer: update

TRUNCATE

ALTER

ROLLBACK

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Question 20 X 4.7s 0 pts

Rollback and Commit affect

Only DML statements

Only DDL statements

Your Answer: All SQL statements executed

Correct Answers Your Answers ← PREV NEXT →

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Question 21 X 1.8s 0 pts

You define a multiple-row subquery in the WHERE clause of an SQL query with a comparison operator "=". What happens when the main query is executed?

the main query executes with the first value returned by the subquery

the main query executes with the last value returned by the subquery

Your Answer the main query executes with all the values returned by the subquery

The main query fails because the multiple-row subquery cannot be used with the comparison operator.

Correct Answers Your Answers ← PREV NEXT →

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Question 22 X 3.4s 0 pts

Update If Correct is an approach for which of the following concepts in MongoDB:

Concurrency Control

Transaction Management

Your Answer Atomicity

Performance Management

Correct Answers Your Answers ← PREV NEXT →

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Question 23 X 6.3s 0 pts

When we combine multiple columns in a single index, it is known as a _____ index.

Composite

Multiple

Your Answer: Multicol

Complicated

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Question 24 X 4.3s 0 pts

In an RDBMS, another word for Column is _____

Row

tuple

attribute

Your Answer: applet

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Question 25 X 3.3s 0 pts

The DUAL table has

One row many columns
Your Answer:
 One column and many Rows
 One row and One Column
 Many Rows and many columns

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Question 26 X 3.6s 0 pts

Identifiers in MySQL can contain upto _____ characters.

Your Answer:
 255
 30
 1000
 NONE

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Question 31 X 5.9s 0 pts

What kind of database MongoDB is?

Graph Oriented

Document Oriented

Key Value Pair

Your Answer: Column Based

Correct Answers Your Answers ← PREV NEXT →

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Question 32 X 7.3s 0 pts

To suppress the duplicate values, you can use the keyword _____.

Distinct

Your Answer: Unique

Either of the above

None of the above

Correct Answers Your Answers ← PREV NEXT →

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Question 33 X 7s 0 pts

Evaluate the SQL statement:- SELECT ROUND (TRUNCATE (MOD (1600,10),-1), 2) FROM dual;
What will be displayed?

0
 1
Your Answer:
 100
 AN ERROR STATEMENT

Correct Answers Your Answers ← PREV NEXT →

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Question 34 X 2.4s 0 pts

A collection and a document in MongoDB is equivalent to _____ concepts respectively.

Table and column
 Table and row
Your Answer:
 Row and column
 Database and table

Correct Answers Your Answers ← PREV NEXT →

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Question 36 X 4.6s 0 pts

CHAR() function

Accepts a number & returns the character

Accepts a character & returns the number

Your Answer:

Accepts a number & returns the number

None of the above

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Question 37 X 23.2s 0 pts

Which of the following statement contain an error?

Select * from EMP where EMPNO=493945;

Select EMPNO from EMP where EMPNO=493945;

Your Answer:

Select EMPNO from EMP;

Select EMPNO where EMPNO = 56949 and LASTNAME='SMITH';

Correct Answers Your Answers ← PREV NEXT →

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Question 38 X 3s 0 pts

The component of SQL that is used for granting and revoking privileges is known as _____.

DDL
Your Answer:
 DML
 DCL
 DQL

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Question 39 X 6.6s 0 pts

_____ is a compulsory section of a MySQL block

Declaration section marked by the keyword DECLARE
 Executable section marked by the keyword BEGIN ... END
Your Answer:
 Exception section marked by the keyword EXCEPTION
 All of the above

Correct Answers Your Answers ← PREV NEXT →

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Question 40 X 4s 0 pts

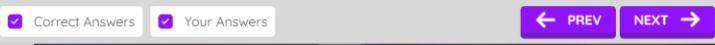
Choose the Incorrect option related to DBMS

Your Answer: There is no Security of data

Not support distributed database

satisfy more than 8 rule of Dr. E.F. Codd

none

 Correct Answers Your Answers  PREV NEXT 

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Question 1 ✓ 21s 710 pts

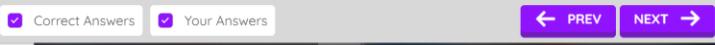
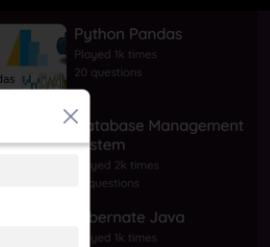
----- makes a string of certain length by adding a certain set of characters to the left

LTRIM

Your Answer: LPAD

SUBSTR

INSTR

 Correct Answers Your Answers  PREV NEXT 

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Question 4  4.8s 950 pts

What is the maximum size of a MongoDB document

2 MB
Your Answer: 16MB
 12MB
 There is no maximum size. It depends on the RAM

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Question 8  32.9s 600 pts

In MySQL if you need to deal with a group of rows, then you must place returned data into

Select Statement
Your Answer: Cursors
 Into clause
 Code storage

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Question 12  21s 970 pts

Which of the following statements is true about while loops?

a. Explicit exit statements are required in while loops.

b. Counter variables are required in while loops.

c. An if-then statement is needed to signal when a while loop should end.

d. All exit conditions for while loops are handled in the exit when clause.

Your Answer: Your Answers    PREV  NEXT

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Question 13  5.7s 920 pts

Which of the following is an invalid rollback statement in MySQL?

ROLLBACK;

ROLLBACK WORK;

ROLLBACK TO SAVEPOINT A;

None of the above

Your Answer: Your Answers    PREV  NEXT

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Time/ques Streak  Python Pandas Played 1k times 20 questions

Question 18  4.5s 930 pts

Dropping a table has the following effects on a non-unique index created for the table

No effect

Your Answer: The index will be dropped

The index will be rendered invalid

The index will contain NULL values

   PREV  NEXT

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Question 27  3.7s 950 pts

Point out the wrong statement.

NoSQL databases are built to allow the insertion of data without a predefined schema

NewSQL databases are built to allow the insertion of data without a predefined schema

Your Answer: Non Relational databases require that schemas be defined before you can add data

All of the mentioned

   PREV  NEXT

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Time/ques Streak  Python Pandas Played 1k times 20 questions

Question 28  9s 870 pts

The _____ operator is used for pattern matching.

Distinct

Your Answer:  Like

Group By

Order By

   PREV 

Type here to search                     29°C ENG 25-08-2022 

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Time/ques Streak  Python Pandas Played 1k times 20 questions

Question 29  17s 770 pts

Evaluate this SQL statement: SELECT ename, sal, 12*sal+100 FROM EMP; The SAL column stores the monthly salary of the employee. Which change must be made to the above syntax to calculate the annual compensation as "monthly salary plus a monthly bonus of \$100, multiplied by 12"?

No change is required to achieve the desired results.

Your Answer:  SELECT ename, sal, 12*(sal+100) FROM emp;

SELECT ename, sal, (12*sal)+100 FROM emp;

SELECT ename, sal+100*12 FROM emp;

   PREV 

Summary - Quizizz x Summary - Quizizz x + [quizizz.com/join/game/U2FsdGVkX1%252FU7xlfznNboJ%252FAvnQdQhCvaFtUy6FqNAI2SCEiATnllunFZkw1ChtKCWLV8n8l0kQYKEXvzUg%253D%253D?gameType=async&page...](https://quizizz.com/join/game/U2FsdGVkX1%252FU7xlfznNboJ%252FAvnQdQhCvaFtUy6FqNAI2SCEiATnllunFZkw1ChtKCWLV8n8l0kQYKEXvzUg%253D%253D?gameType=async&page) 

Time/ques Streak  Python Pandas Played 1k times 20 questions

Question 30  17.9s 760 pts

Which describes the default behaviour when you create a table?

The table is accessible to all users.

Tables are created in the public schema.

Your Answer Tables are created in your schema.

Tables are created in the DBA schema.

   PREV 

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Time/ques Streak  Python Pandas Played 1k times 20 questions

Question 35  1.7s 970 pts

A subquery can be used to _____.

create groups of data

sort data in a specific order

convert data to a different format

Your Answer retrieve data based on an unknown condition

   PREV 

.Net CCEE test

Total points 23/40



26-Aug-2022

Student ID: *

220340320030

Name : *

ASHOK PATE

Centre :

- Juhu
- Kharghar

✓ 1. Which of the following keyword is used to overload user defined types by defining static member functions?

- a) op
- b) opoverload
- c) operator
- d) operatoroverload



X 2. Operators that can be overloaded are?

0/1

- a) $\|$
- b) $+='$ X
- c) $+$
- d) $[]$

Correct answer

- c) $+$

X 3. What is the vector in operator overloading?

0/1

- a) class X
- b) method()
- c) data type
- d) none of the mentioned

Correct answer

- c) data type



X 4.what is Operator Overloading? *

0/1

- Enables user-defined operator implementations for various operators such as: =, typeof
- The ability to declare more than one method with the same name but a different **X** signature
- Enables user-defined operator implementations for various operators such as: true, false

Correct answer

- Enables user-defined operator implementations for various operators such as: true, false

**X 5.Which of the following is NOT an interface declared
in *System.Collections* namespace?**

0/1

- A. IComparer
- B. IEnumerable
- C. IEnumerator **X**
- D. IDictionaryComparer
- E. IDictionaryEnumerator

Correct answer

- D. IDictionaryComparer



✓ 6. Suppose value of the *Capacity* property of *ArrayList* Collection is set to 4. 1/1
What will be the capacity of the Collection on adding fifth element to it?

- A. 4
- B. 8 ✓
- C. 16
- D. 32

✗ 7. Which of the following is the correct way to find out the number of elements currently present in an *ArrayList* Collection called arr? 0/1

- A. arr.Count
- B. arr.GrowSize
- C. arr.MaxIndex
- D. arr.Capacity ✗
- E. arr.UpperBound

Correct answer

- A. arr.Count



✖ 8. The ... method removes and returns the object at the begining of the Queue. 0/1

- A) public virtual void Dequeue(); ✖
- B) public virtual void Delete();
- C) public virtual void Clear();
- D) public virtual object Dequeue();

Correct answer

- D) public virtual object Dequeue();

✓ 9. Which Property we can use to gets or sets the number of elements that the ArrayList can Contain.... 1/1

- A) Count
- B) Item
- C) Capacity ✓
- D) Length

✓ 10.Among the given collections which is the I/O index based? 1/1

- a) ArrayList
- b) BitArray
- c) Stack
- d) Queue
- e) both a and b ✓



✓ 11. Choose the correct statement among the followings?

1/1

- a) Indexers are location indicators
- b) Indexers are used to access class objects
- c) Indexer is a form of property and works in the same way as a property
- d) All of the mentioned

✓

✓ 12. Choose the correct statement among the followings?

1/1

- a) Indexers are location indicators
- b) Indexers are used to access class objects
- c) Indexer is a form of property and works in the same way as a property
- d) All of the mentioned

✓

✗ 13. Choose the keyword which declares the indexer?

0/1

- a) base
- b) this
- c) super
- d) extract

✗

Correct answer

- b) this



✖ 14. Choose the operator/operators which is/are not used to access the [] operator in indexers? 0/1

- a) get
- b) set
- c) access
- d) all of the mentioned

✖

Correct answer

- c) access

✓ 15. Which among the following are the advantages of using indexers? 1/1

- a) To use collection of items at a large scale we make use of indexers as they utilize objects of class that represent the collection as an array
- b) Indexers are also convenient as they can also make use of different types of indexers like int, string etc
- c) An indexer allows an object to be indexed such as an array
- d) All of the mentioned

✓

✓ 16. Choose the correct statement about properties describing the indexers? 1/1

- a) No need to use the name of the property while using an indexed property
- b) An indexer property should accept at least one argument
- c) Indexers can be overloaded
- d) All of the mentioned

✓



✖ 17. Choose the correct option among the following indexers which correctly allows to index in same way as an array?

0/1

- a) A class
- b) An interface
- c) A function
- d) A property

✖

Correct answer

- a) A class

✖

0/1

18. Select the modifiers which can be used with the properties?

- Private
- Public
- Protected Internal
- All of the mentioned

✖

Correct answer

- All of the mentioned



✓ 19.To use the .NET Framework Data Provider for SQL Server, an application 1/1 must reference the _____ namespace.

- a) System.Data.Client
- b) System.Data.SqlClient
- c) System.Data.Sql
- d) None of the mentioned



✓ 20.Choose the namespace which supports multithreading programming? 1/1

- a) System.net
- b) System.Linq
- c) System.Threading
- d) All of the mentioned



✗ 21.What does the following C# code snippet specify?

0/1

public Thread(ThreadStart start)

- a) Defines a thread
- b) Declaration of a thread constructor
- c) Only Defines a thread
- d) Only Defines a thread & Declaration of a thread constructor



Correct answer

- d) Only Defines a thread & Declaration of a thread constructor



✓ 22.Which of these classes is used to make a thread?

1/1

- a) String
- b) System
- c) Thread
- d) Runnable



✓ 23.On call of which type of method the new created thread will not start executing?

1/1

- a) Begin()
- b) Start()
- c) New()
- d) All of the mentioned



✓ 24.Which of these methods of Thread class is used to Suspend a thread for a period of time?

1/1

- a) sleep()
- b) terminate()
- c) suspend()
- d) stop()



✓ 25.Which keyword is used for using the synchronization features defined by the Monitor class? 1/1

- a) lock
- b) synchronized
- c) monitor
- d) locked



✓ 26. Which of these keywords are used to implement synchronization? 1/1

- A. synchronize
- B. syn
- C. synch
- D. synchronized



✓ 27.Which method is called when a thread is blocked from running temporarily? 1/1

- A. Pulse()
- B. PulseAll()
- C. Wait()
- D. Both A and B



✓ 28.Which of these class is used to make a thread?

1/1

- a) String
- b) System
- c) Thread
- d) Runnable



✓ 29.Which of these method of Thread class is used to Suspend a thread for a period of time?

- a) sleep()
- b) terminate()
- c) suspend()
- d) stop()



✗ 30.what will be the output of following code?

0/1

```
public static void Main()
{
    int k;
    display(k);
}

static void display(int val = 0)
{
    Console.WriteLine(val);
}
```

- Null
- 0 ✗
- compile time error
- runtime error

Correct answer

- compile time error

✓ 31.Which of the following statements is correct about a delegate?

1/1

- inheritance is a prerequisite for using delegates
- delegates are not type safe
- delegates provides wrappers for function pointers ✓
- none of the mentioned



✗ 32.The infrastructure that supports these dynamic operations at run time is called the.....0/1

- CLR
- CTS
- CLS
- DLR

✗

Correct answer

- DLR

✗ 33. In C#, having unreachable code is always a/an0/1

- method
- function
- error
- itreative

✗

Correct answer

- error



✓ 34.C# treats the multiple catch statements like cases in a statement

1/1

- if
- for
- while
- switch



✓ 35. Which component in Asp.net MVC can be used to pass data between controller to view (Assume you have to pass current date and time)

1/1

- ViewData["DateTime"] = DateTime.Now.ToString();
- ViewBag["DateTime"] = DateTime.Now.ToString();
- ViewState["DateTime"] = DateTime.Now.ToString();
- DataView["DateTime"] = DateTime.Now.ToString();



✓ 36. Choose the correct statement among the followings?

1/1

- Indexers are location indicators
- Indexers are used to access class objects
- Indexer is a form of property and works in the same way as a property
- All of the mentioned



✗ 37.State whether the following statements about the Microsoft Intermediate Language (MSIL) are TRUE or FALSE. 0/1

- i) The MSIL code includes instructions to load, initialize and invoke methods on objects
- ii) The MSIL code is collected and assembled in the form of byte codes and is converted to a .NET assembly

i-True, ii-False

i-False, ii-True ✗

i-True, ii-True

i-False, ii-False

Correct answer

i-True, ii-True

✗ 38.What function modifier can be put on a method in a base class to allow the child to override it? 0/1

Abstarct

Sealed ✗

Virtual

Must Override

Correct answer

Virtual



✓ 39. ensures complete interoperability among applications, regardless of the language used to create the application 1/1

- CLR
- CTS
- CLS
- FCL



✗ 40. How do you manage states in an ASP.NET application? 0/1

- Viewstate
- Application Objects
- Session Objects
- All of the above



Correct answer

- All of the above

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Google Forms



DOT NET Mock CCEE

Total points 23/40

**Email ***

ashokdgate@gmail.com

0 of 0 points

Name *

Ashok Pate

Mobile No *

9284926333

From which CDAC Centre are you? *

CDAC Mumbai(Kharhgar)



Untitled section

5 of 5 points



✓ State whether the following statements about the managed and unmanaged code are TRUE or FALSE 1/1

- i) Managed code is the code that is executed directly by the CLR.
- ii) Managed code directly compiles to the machine code and runs on the machine where it has to be compiled.
- iii) Unmanaged code does not have services such as security or memory management.

- i-True, ii-False, iii-False
- i-False, ii-True, iii-False
- i-True, ii-False, iii-True
- i-False, ii-False, iii-True

✓ List<T> Contains(T) method is used to check whether an elements is in the 1/1 List<T> or not. The return type is:

- int
- Boolean
- void
- var



✓ What does the following C# code specify?
object Invoke(object obj, object[] parameters)

1/1

- Calling a type using invoke()
- Any arguments that need to be passed to the method are specified in the array parameters
- The value returned by the invoked method is returned by Invoke()
- All of the mentioned



✓ Find the error in the below code snippet

1/1

```
class Employee{  
    int Empld;  
    public int Employee(){  
        Empld=1001;  
    }  
}
```

- No error
- Return type is not possible in constructor
- Access specifier is not possible in constructor
- Constructor must have different name than class



✓ What will be the output of the following C# code snippet? 1/1

```
class Program{
    static void Main(string[] args){
        string[] strs = {"alpha","beta","gamma"};
        var chrs = from str in strs
        let chrArray = str.toCharArray()
        from ch in chrArray
        orderby ch
        select ch;
        Console.WriteLine("The individual characters in sorted order:");
        foreach(char c in chrs){
            Console.Write(c+" ");
            Console.WriteLine();
            Console.ReadLine();
        }
    }
}
```

- a a l h a b g m m a p e t a
- a a a a a b e g h l m m p t ✓
- a g h l m m p t a a a a b e
- Run time error

Untitled section

3 of 5 points



✖ What is used in the following scenario:

0/1

When working with a query expression, a variable that can store the result of the sub-expression in order to reuse it in the upcoming clause.

- let
- var
- dynamic
- generic expression

✖

Correct answer

- let

✖ Which of the following are valid states of Thread?

0/1

1. Unstarted
2. Runnable (Ready to run)
3. Running
4. Not Runnable
5. Dead (Terminated)

- 1,2,3,4,5
- 1,2,4,5
- 1,2,3,5
- 1,2,3,4

✖

Correct answer

- 1,2,3,4,5



✓ What will be the output of the following C# code? 1/1

```
class Program{
    static void Main(string[] args){
        int i=5;
        int j;
        method1(ref i);
        method2(out j);
        Console.WriteLine(i+" "+j);
    }
    static void method1(ref int x){
        x=x+x;
    }
    static void method2(out int x){
        x=6;
        x=x*x;
    }
}
```

- 36,10
- 10,36 ✓
- 0,0
- 36,0

✓ Which operator among the following signifies the destructor operator? 1/1

- ::
- :
- ~ ✓
- &



✓ State whether the following statements about the Microsoft Intermediate Language (MSIL) are TRUE or FALSE. 1/1

- i. The MSIL code includes instructions to load, initialize and invoke methods on objects.
- ii. The MSIL code is collected and assembled in the form of byte code and is converted to a .NET

i-True, ii-False

i-False, ii-True

i-True, ii-True



i-False, ii-False

Untitled section

3 of 5 points

✓ How do you manage states in asp .net mvc application. 1/1

Application

Session

ViewBag

All of the above



✓ Consider the following:

1/1

isNullOrEmpty() is used to check whether the specified string is null or an Empty string. A string will be _____ if it has not been assigned a value. A string will be empty if it is assigned _____ or _____.

null,"",String.Empty



"",null,String.Empty

null, String.Empty, ""

"", String.Empty, null

✗ Which among the following is not a type of contract in wcf?

0/1

Service Contract

Operation Contract

Security Contract

None of the above



Correct answer

Security Contract



✖ Valid Code for Creating a SqlConnection Object would be:

0/1

- `SqlConnection conn = new SqlConnection("Data Source=(local);Initial Catalog=Northwind;Integrated Security=SSPI");`
- `SqlConnect conn = new SqlConnection("Data Source=(local);Initial Catalog=Northwind;Integrated Security=SSPI");`
- `SqlConnection conn = new SqlConnect("Data Source=(local);Initial Catalog=Northwind;Integrated Security=SSPI");`
- All of the mentioned

✖

Correct answer

- `SqlConnection conn = new SqlConnection("Data Source=(local);Initial Catalog=Northwind;Integrated Security=SSPI");`

✓ C# treats the multiple catch statements like cases in a _____ statement.

1/1

- If
- Switch
- For
- While

✓

Untitled section

2 of 5 points



✗ _____ ensures complete interoperability among applications, regardless of the language used to create the application.

0/1

- CLR
- CLS
- CTS
- FCL

✗

Correct answer

- CLS

✓ Choose the correct statement from the following:

1/1

- Indexers are location indicators
- Indexers are used to access class objects
- Indexer is a form of property and works in the same way as a property
- All of the mentioned

✓



✗ You are developing an ASP .NET MVC application. You create a view that will be returned by action methods in multiple controllers. You need to place the view in the appropriate folder. To which subfolder within the Views folder should you add the view? 0/1

- Shared
- Default ✗
- Master
- None of the above

Correct answer

- Shared

✗ _____ methods are not supported for dynamic types. 0/1

- Anonymous ✗
- Static
- Abstract
- Extension

Correct answer

- Extension



✓ What will be the output of the following C# code? 1/1

```
class Program{
    static void Main(string[] args){
        int i,j;
        int[,] arr = new int[3,3];
        for(i=0;i<3;++i){
            for(j=0;j<3;++j){
                arr[i,j]=i*2+j*2;
                Console.WriteLine(arr[i,j]);
            }
            Console.ReadLine();
        }
    }
}
```

- 0,0,0 4,4,4 8,8,8 ✓
- 4,4,4 8,8,8 12,12,12
- 8,8,8 12,12,12 16,16,16
- 0,0,0 1,1,1 2,2,2

Untitled section

4 of 5 points



- ✓ Consider the following code and predict the output using System: 1/1

```
class ExcDemo3{
    public static void Main(){
        int[] number = {4,8,16,32,64,128};
        int[] denom = {2,0,4,4,0,8};
        for(int i=0;i<number.Length;i++){
            try{
                int[] div = new int[7];
                div[i]=number[i]/denom[i];
            }catch(DivideByZeroException){
                Console.WriteLine("Can not be Divide by zero");
            }catch(IndexOutOfRangeException){
                Console.WriteLine("");
            }
        }
        Console.Read();
    }
}
```

- DivideByZeroException ✓
- FormatException
- IndexOutOfBondException
- None from the options

- ✓ The C# compiler used in .NET CORE is _____ 1/1

- csc.exe
- Roslyn ✓
- Typescript
- core.exe



- ✓ You have to create a collection of Order objects. The collection must meet 1/1 the following requirements
- Use strongly typed members
 - Process Order objects in first-in-first-out order.
 - Store values for each Order objects
 - Use Zero based indices.

Which collection type must be used to meet all the above requirements?

Stack<T>

Queue<T> ✓

LinkedList<T>

Dictionary<T>

- ✓ The reason that C# does not support multiple inheritances is because of 1/1
-

Method collision

Name collision ✓

Function collision

Interface collision



X How to Print value from Controller to view in MVC?

0/1

- ViewBag.ECMDetail = "my message"; and in view ViewBag.Title
- ViewBag.ECMDetail = "my message"; and in view ViewBag.ECMDetail X
- ViewBag.ECMDetail = "my message"; and in view @ViewBag.ECMDetail
- None of the Above

Correct answer

- ViewBag.ECMDetail = "my message"; and in view @ViewBag.ECMDetail

Untitled section**2 of 5 points****X Which is the best approach to assign a session in MVC?**

0/1

- Session["LoginID"] =7;
- Current.Session["LoginID"] =7;
- System.Web.HttpContext.Current.Session["LoginID"] =7; X
- None

Correct answer

- Current.Session["LoginID"] =7;



✓ Which of the following keyword is used to overload the user defined types? 1/1

- Op
- Opoverload
- Operator
- Operatoroverload



✗ You have declared an event on your class and you want outside users of your class to raise this event. What do you do? 0/1

- Add a public method to your class that raises the event
- Makes the event public
- Use a public delegate instead of an event
- Use a custom event accessor to give access to outsider users.



Correct answer

- Add a public method to your class that raises the event

✓ How do you get information from a form that is submitted using the "post" method? 1/1

- Request.QueryString
- Request.Form
- Response.write
- Response.WriteLine



✗ The infrastructure that supports dynamic operations at run time is called 0/1
the _____

- CLR
- CTS ✗
- CLS
- DLR

Correct answer

- DLR

Untitled section

1 of 5 points

✗ _____ parameters allows you to give a method parameter a default 0/1
value so that you do not have to specify it every time you call the method.

- optional
- named
- out
- ref ✗

Correct answer

- optional



✗ Inheritance is _____ in nature.

0/1

- Commutative
- Associative ✗
- Transitive
- Iterative

Correct answer

- Transitive

✗ Choose the incorrect statement about delegates

0/1

- delegates are not type safe
- delegates can be used to implement callback notification ✗
- delegate is a user defined type
- delegates permits execution of a method in an asynchronous manner

Correct answer

- delegates are not type safe

✓ in C#, having unreachable code is always a/an _____.

1/1

- Method
- Function
- Error ✓
- Iterative



✗ In C#, which one of the following modifier do you use in a base class to require any derived class to implement a class member? 0/1

- Abstract
- Virtual ✗
- Must Override
- Sealed

Correct answer

- Abstract

Untitled section

3 of 5 points

✓ The _____ keyword is new to C# 4.0, and is used to tell the computer 1/1 that a variable's type can change or that it is not known until runtime.

- Covariance
- Dynamic ✓
- Contravariance
- Object

✓ Which component in Asp .net MVC can be used to pass data between controller to view? (Assume you have to pass current date and time) 1/1

- ViewData("Date Time")=DateTime.Now.ToString();
- ViewState("Date Time")=DateTime.Now.ToString();
- ViewBag("Date Time")=DateTime.Now.ToString(); ✓
- DataView("Date Time")=DateTime.Now.ToString();



✓ How to check Request coming from which controller using MVC ASP .Net? 1/1

- var _controller =
 HttpContext.Current.Request.RequestContext.Values["Controller"].ToString();
- var _controller =
 HttpContext.Current.Request.RequestContext.RouteData.Values["Controller"].To
 String(); ✓
- var _controller = RouteData.Values["Controller"].ToString();
- None

✗ Are both TempData/ ViewData require typecasting in MVC? 0/1

- Both (TempData/ViewData) requires type casting to avoid null exception.
- No, these (TempData/ViewData) does not require type casting.
- Both A) & B) ✗
- None

Correct answer

- Both (TempData/ViewData) requires type casting to avoid null exception.



X Which Namespace is used for ASPX View Engine ?

0/1

- System.Web.Razor
- System.Web.Mvc.WebFormViewEngine
- Both A & B
- None

X**Correct answer**

- System.Web.Mvc.WebFormViewEngine

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Java MCQ (Multiple Choice Questions) | 2021-01-23 11:02:38

Java MCQ (Multiple Choice Questions)

Java Multiple Choice Questions

1) Observe the following code snippet and choose the correct option.

```
byte b = 10; // line 1  
b = b * 10; // line 2
```

1. Lines 1 and 2 both execute without any error.
2. Because of line 2, the code will not compile.
3. Because of line 1, the code will not compile.
4. None of the above

[Hide Answer](#)

[Workspace](#)

Answer: b) Because of line 2, the code will not compile. **Explanation:** The * operator has converted the expression `b * 10` into integer. We know that size of integer is always greater than the size of byte in Java. Therefore, assigning an integer to a byte may lead to lossy conversion and such type of conversion is always done explicitly (by doing type-casting). Hence, we get the compilation error because of line 2.

2) Predict the outcome

Filename: Basic.java

```
public class Basic
{
    public static void main(String args[])
    {
        int var;

        System.out.println(var + 1);
    }
}
```

- 1. 1
- 2. 2
- 3. Compilation Error
- 4. Runtime Error

[Hide Answer](#)

[Workspace](#)

Answer: c) Compilation Error **Explanation:** Class member variables can be accessed without assigning a value. However, the same is not true for the local variable. In our code, `var` is a local variable. Therefore, `var` must be initialized with some value before accessing it. Hence, the compilation error.

3) Predict the outcome

Filename: Basic1.java

```
public class Basic1
{
    public static void main(String args[])
    {
        int var1 = 5;
        int var2 = 6;
    }
}
```

```

        System.out.println(var1 + var2 + " = " + var1 + var2);
    }
}

```

1. 56 = 56
2. 11 = 11
3. 56 = 11
4. 11 = 56

[Hide Answer](#)[Workspace](#)

Answer: d) 11 = 56 **Explanation:** The + operator acts differently in the different scenarios. We have used the + operator thrice in our code. The first + operator does the addition work. But the second and third + plus operator does the concatenation work. This is because, before the second + operator, the compiler has already encountered a string (=). Therefore, the second and third + operator does the concatenation work.

4) The correct way to invoke MATH.max() is

- I) Math.max(3.5, 7) II) Math.max(2, 3) III) Math.max(1.5, 6.7f) IV) Math.max(1.4, 6, 7.8f)
1. I and IV
2. I, II and IV
3. II, III, and IV
4. I, II and III

[Hide Answer](#)[Workspace](#)

Answer: d) I, II and III **Explanation:** The max() method can never take three arguments. Also, the max() method is overloaded to take two arguments of type double, float, long and int. Therefore, only I, II, and III are correct statements.

5) Predict the outcome

Filename: Basic2.java

```

class Basic2
{
    FirstClass()
    {
        System.out.print("Inside Constructor. ");
    }
}

```

```
}

{

    System.out.print("Inside the instance block. ");

}

static

{

    System.out.print("Inside the static block. ");

}

}

public class JavaMCQ2

{

public static void main(String argvs[])

{

    FirstClass obj = new FirstClass();

}

}
```

1. Inside the instance block. Inside the static block. Inside Constructor.
2. Inside Constructor. Inside the instance block. Inside the static block.
3. Inside the static block. Inside the instance block. Inside Constructor.
4. Inside the instance block. Inside Constructor. Inside the static block.

Hide AnswerWorkspace

Answer: c) Inside the static block. Inside the instance block. Inside Constructor.

Explanation: Static blocks are executed when JVM loads the class. Hence, the static block is executed first. Instance block is executed just before the constructor is invoked. The constructor is invoked during object creation. Thus, the execution of the instance block is dependent on the constructor. Hence, if we create 10 objects, then the constructor gets invoked 10 times. Therefore, the instance block also gets executed 10 times. In our code, only one object is created. So, the instance block is executed only one time.

6) The correct definition of an anonymous object will be:

1. An object having no reference.
2. An object of a subclass
3. An object of the superclass
4. None of these

Hide AnswerWorkspace

Answer: a) An object having no reference. **Explanation:** Anonymous objects are those objects that have no reference. For example, new MyClass(). Here, we are creating an object of the class MyClass. However, we are not assigning the object to a variable. Therefore, it is an anonymous object. If we do MyClass my = new MyClass() then we have a reference variable my for the created object. Hence, the newly created object is not anonymous.

7) Pick the correct statement about a method-local inner class.

1. It may be marked public
2. It may be marked static
3. Both a and b
4. It may be marked abstract

[Hide Answer](#)[Workspace](#)

Answer: d) It may be marked abstract **Explanation:** A method-local inner class is a class that defined inside a method of other class. Also, whatever we define inside a method are local. For example, if we define a variable inside a method then that variable is a local variable. In Java, it is a rule that anything that is local can never be marked as public or static. However, a method-local inner class can be marked as abstract. Therefore, option d is correct.

8) What will be the value of the variable db after executing the following code?

```
double db = Math.round( 3.5 + Math.random() );
```

1. 3
2. 5
3. 4
4. 5

[Hide Answer](#)[Workspace](#)

Answer: c) 4 **Explanation:** The random() method returns a number that is greater than or equal to 0 but less than 1. Therefore, the value the is being pass as the argument of the round() method is always greater than or equal to 3.5 but less than 4.5 and after applying the round() method to this range gives number 4.

9)**Filename:** Excptn.java

```
public class Excptn
{
    public static void main(String argvs[])
    {
        try
        {
            throw 7;
        }
        catch(int i)
        {
            System.out.println("We have received the exception");
        }
    }
}
```

- 
- 1. We have received the exception 7
 - 2. Run time error
 - 3. Compile time error
 - 4. None of these

[Hide Answer](#)[Workspace](#)

Answer: c) Compile time error **Explanation:** In Java, basic data types can never be thrown at all. We can only throw objects of any subclass of the Throwable class.

10) Predict the outcome**Filename:** Excptn1.java

```
public class Excptn1
{
    public static void main(String argvs[])
    {
        try
        {
            throw new Child();
        }
        // catch block of the Parent class
        catch(Parent p)
        {
            System.out.println("Got the Parent class exception");
        }
    }
}
```

```
    }
    // catch block of the Child class
    catch(Child c)
    {
        System.out.println("Got the Child class exception");
    }

}
```

1. Got the Parent class exception
2. Got the Child class exception
3. Run time error
4. Compile time error

[Hide Answer](#)[Workspace](#)

Answer: d) Compile time error **Explanation:** Compile time error because the catch block of the Child class is coming after the catch block of the Parent class. In Java, the catch block of the derived/ child class must come before the base/ parent class.

11) What happens in autoboxing?

1. We instantiate a class
2. We do operator overloading
3. We assign a primitive type of data to its wrapper class so that the primitive data gets automatically converted to the object of the wrapper class.
4. All of the above.

[Hide Answer](#)[Workspace](#)

Answer: c) We assign a primitive type of data to its wrapper class so that the primitive data gets automatically converted to the object of the wrapper class.

Explanation: Take it from the name autoboxing. Java has a special feature for primitive types of data. When assigned to its corresponding wrapper class, automatic conversion occurs to change the data to the object. Integer i = 10; Here 10 is the primitive data, and *i* is the reference variable of the class Integer. Because of autoboxing, 10 will get converted to an object and will be assigned to reference variable *i*.

12) Suppose that P is an abstract class and P is also the parent class of child class Q. However, class Q is a concrete class. It is given that both P and Q have a default constructor. Choose the correct option.

1. P p = new P(); 2. P p = new Q(); 3. Q q = new P(); 4. Q q = new Q();

1. 1, 2

2. 1, 3

3. 2, 4

4. 2, 3

[Hide Answer](#)

[Workspace](#)

Answer: c) 2, 4 **Explanation:** We can never create the object of an abstract class.

Therefore, 1st and 3rd statements are false.

13) Predict the outcome

Filename: OOPS.java

```
class OopsParent
{
    public static String song()
    {
        return "la la land";
    }
}
public class OOPS extends OopsParent
{
    public static String song()
    {
        return "fa fa fand";
    }
    public static void main(String argvs[])
    {
        OopsParent a = new Oops();
        Oops b = new Oops();
        System.out.println(a.song() + " " + b.song());
    }
}
```

1. la la land fa fa fand
2. fa fa fand fa fa fand
3. Compile-time error
4. Run time error

[Hide Answer](#)[Workspace](#)

Answer: a) la la land fa fa fand **Explanation:** The method song() is the static method. Therefore, dynamic binding does not occur. Because of the static keyword, compile-time binding or static binding occurs. Hence, option a is correct.

14) Predict the outcome

Filename: OOPS1.java

```
class Parent
{
    public void getDetails()
    {
        System.out.println("Parent class");
    }
}

public class OOPS1 extends Parent
{
    protected void getDetails()
    {
        System.out.println("Child class");
    }
    public static void main(String[] args)
    {
        Parent obj = new Parent();
        obj.getDetails();
    }
}
```

1. Parent class
2. Child class
3. Compile-time error
4. Run time error

[Hide Answer](#)[Workspace](#)

Answer: c) Compile-time error **Explanation:** In the code, the child class is overriding the method getDetails() with access specifier protected. However, the same method is declared public in the parent class. Thus, we are assigning a weaker access modifier to the method getDetails() in the child class, which is not allowed in Java. Hence, the compile-time error.

15) Predict the outcome

Filename: OOPS2.java

```
class Parent
{
    Parent(String input)
    {
        System.out.println(input);
    }

    public void getDetails()
    {
        System.out.println("Parent class");
    }
}

public class OOPS2 extends Parent
{
    OOPS2()
    {
        System.out.println("Inside child class");
    }

    public void getDetails()
    {
        System.out.println("Child class");
    }

    public static void main(String[] args)
    {
        Parent obj = new OOPS2();
        obj.getDetails();
    }
}
```

1. Parent class
2. Child class
3. Compile-time error
4. Run time error

[Hide Answer](#)

[Workspace](#)

Answer: c) Compile-time error **Explanation:** When the compiler executes new OOPS2(). The constructor of the OOPS2 class gets invoked, which in turn invokes the default constructor of the super class, i.e., Parent class. Since, we have provided the

parameter constructor for the Parent class, therefore, the compiler does not provide the default constructor. Also, we did not provide the default constructor in the Parent class. Thus, in the Parent class, both the default and default constructors are absent. Therefore, we get a compilation error.

16) Which concept of Java is a way of converting real-world objects in terms of class?

1. Polymorphism
2. Encapsulation
3. Abstraction
4. Inheritance

Hide AnswerWorkspace

Answer: a) Abstraction **Explanation:** We define real-world objects into classes or interfaces with the help of abstraction.

17) When a parent object dies, its child object also dies. This statement is the property of which of the following.

1. Polymorphism
2. Association
3. Aggregation
4. Composition

Hide AnswerWorkspace

Answer: d) Composition **Explanation:** Composition states a relationship where child objects can never exist without parents.

18) Depending on the object, the same functionality is carried out differently, is the characteristic of which feature of the object-oriented programming?

1. Encapsulation
2. Polymorphism
3. Abstraction
4. Inheritance

[Hide Answer](#)[Workspace](#)

Answer: b) Polymorphism **Explanation:** The definition of polymorphism says, "the state of occurring in various different form".

19) Consider the following two statements.

I. A subtype of a base class is a publicly derived class. II. Reusability of code is an important feature of inheritance.

1. Statements I and II are both correct.
2. Statement I is correct. Statement II is incorrect.
3. Statements I and II both are incorrect.
4. Statement I is incorrect. Statement II is correct.

[Hide Answer](#)[Workspace](#)

Answer: a) Statements I and II are both correct. **Explanation:** A publicly derived class is always a subtype of its base class. In inheritance, we provide methods in the base class, and the derived class gets access to the base class methods based on the basis of access specifiers used. Thus, we declared the methods only once in the base class. This is how reusability of code is achieved in inheritance.

20) A bank has a lot of employees. This statement perfectly suits to which of the following concepts. Choose the most appropriate option.

1. Association.
2. Aggregation
3. Composition
4. All of the above.

[Hide Answer](#)[Workspace](#)

Answer: a) Association **Explanation:** In aggregation, two entries can exist independently. However, a bank can never exist without its employees. In composition, if one of the entries dies, another entry has to die. But, the non-existence of a bank does not guarantee the non-existence of employees (employees can change their job). However, a bank can have many employees. Therefore, option a is correct.

21) Choose the most appropriate option.

1. In method overriding, compile-time, or static binding occurs. In method overloading, run time or static binding occurs.
2. In method overloading, compile-time, or static binding occurs. In method overriding, run time or static binding occurs.
3. Redefining a method in the child class is called method overloading.
4. All of the above.

Hide AnswerWorkspace

Answer: b) In method overloading, compile-time, or static binding occurs. In method overriding, run time or static binding occurs. **Explanation:** Overloading is always a compile-time binding, whereas overriding is always dynamic binding.

Multithreading

22) How many threads will be created when we execute the following program?

Filename: MultiThreading.java

```
class MyClass extends Thread
{
    public void run()
    {
        System.out.println("Run");
    }
}

public class MultiThreading
{
    public static void main(String[] args)
    {
        MyClass my = new MyClass();
        my.start();
    }
}
```

1. One
2. Two
3. Depends on JVM
4. None of these.

Hide AnswerWorkspace

Answer: b) Two **Explanation:** In Java, the main thread executes the main method. Also, after the execution of my.start(), the child thread will be generated, which is responsible for executing the run() method. Therefore, altogether there will be two threads.

23) Count the number of threads that will be generated when the following program is executed.

Filename: MultiThreading1.java

```
class MyClass extends Thread
{
    public void run()
    {
        System.out.println("Run");
    }
}

public class MultiThreading1
{
    public static void main(String argvs[])
    {
        MyClass my = new MyClass();
        my.run();
    }
}
```

1. One
2. Two
3. Depends on JVM
4. None of these.

[Hide Answer](#)

[Workspace](#)

Answer: a) One **Explanation:** We know that the main thread executes the main method. Hence, every statement written inside the body of the main method is also executed by the main thread. Since the start() method is not getting invoked, the child thread never comes into existence.

24) The synchronized (thread safe) class is/ are:

1. StringBuilder

- 2. StringBuffer
- 3. Both
- 4. None

[Hide Answer](#)[Workspace](#)

Answer: b) StringBuffer **Explanation:** Two or more than two threads can never execute the methods of StringBuffer at the same time. Therefore, class StringBuffer is thread safe or synchronized.

25) To check whether a thread has entered the dead state or not, we invoke which method?

- 1. Running()
- 2. Alive()
- 3. isAlive()
- 4. All of the above

[Hide Answer](#)[Workspace](#)

Answer: c) isAlive() **Explanation:** To check whether a thread is alive or not we must invoke the isAlive() method of the thread class.

26) Predict the output

Filename: MultiThreading2.java

```
public class MultiThreading2
{
    public static void main(String args[])
    {
        Thread th = Thread.currentThread();
        th.setName("A nascent thread");
        System.out.println(th);
    }
}
```

- 1. Thread[main,A nascent thread,5]
- 2. Thread[5,A nascent thread,main]
- 3. Thread[A nascent thread,5,main]
- 4. None of the above

[Hide Answer](#)[Workspace](#)

Answer: c) Thread[A nascent thread,5,main] **Explanation:** In Java, when a thread instance is printed, we get the name of the thread. Then the priority of the thread and finally the thread group. Therefore, option c is correct.

27) Which of these methods is used to suspend a thread for a particular span of time.

1. suspend()
2. stop()
3. terminate()
4. None of these

Hide AnswerWorkspace

Answer: d) None of these **Explanation:** The sleep() method is used to suspend a thread for a particular period of time.

28) Predict the output

Filename: MultiThreading3.java

```
public class MultiThreading3 implements Runnable
{
    public void run()
    {
        System.out.print("Went ");
        System.out.print("Into ");
    }
    public static void main(String args[])
    {
        MultiThreading3 obj = new MultiThreading3();
        Thread th = new Thread(obj);
        th.start();
        System.out.print("Nerd ");

        try
        {
            th.join();
        }
        catch (Exception ex)
        {
            ex.printStackTrace();
        }
    }
}
```

```

        System.out.print("In main");
    }
}

```

1. Nerd Went Into In main
2. Went Into Nerd In main
3. Either option a or b
4. None of the above

[Hide Answer](#)

[Workspace](#)

Answer: c) Either option a or b **Explanation:** After th.start() is executed, we have two threads in our program. Therefore, the onus is on the thread scheduler to decide whether statements in the run method is printed first or the statement after the th.start(). However, In main is printed at last because the main thread will have to wait for the child thread to finish their execution because of the th.join() statement mentioned in the try block.

29) What will happen when we execute the following program?

Filename: MultiThreading4.java

```

public class Multithread4 implements Runnable
{
    public void run()
    {
        System.out.print("Went ");
        System.out.print("Into ");
    }
    public static void main(String args[]) throws InterruptedException
    {
        Thread th = new Thread(new Multithread4());
        th.start();
        th.start();
        System.out.println(th.getState());
    }
}

```

- 
1. Program prints *Went Into* twice and terminated normally
 2. Program prints *Went Into* once and terminated normally
 3. Program prints *Went Into* once and raised an exception
 4. Program prints nothing and terminated normally

[Hide Answer](#)[Workspace](#)

Answer: c) Program prints Went Into once and raised an exception **Explanation:** We are invoking the start() method twice. The first th.start() will change the state of the child thread (th) to runnable. Thus, invoking the start() method again on the runnable thread raises the exception IllegalThreadStateException. This is because the child thread is already in the runnable state.

30) Predict the output

Filename: MultiThreading5.java

```
public class MultiThreading5 implements Runnable
{
    public static MultiThreading5 ob;
    private int input;
    public MultiThreading5()
    {
        input = 10;
    }
    public void run()
    {
        ob = new MultiThreading5();
        ob.wait();
        ob.input += 20;

        System.out.println(ob.input);
    }
    public static void main(String args[]) throws InterruptedException
    {
        Thread th1 = new Thread(new MultiThreading5());
        Thread th2 = new Thread(new myThread());

        th1.start();
        th2.start();

        System.out.printf(" Hello - ");
    }
}
```

- 
1. 30 Hello -
 2. Hello - 30
 3. Hello -
 4. Compile-time error

[Hide Answer](#)[Workspace](#)

Answer: d) Compile-time error **Explanation:** The above program has some flaws.

First of all, a thread must acquire a lock before invoking the wait() method. Also, the wait() method throws the InterruptedException. Therefore, it is required to enclose the method in the try-catch block or delegate it using the throws keyword.

31) Choose the most appropriate option

Filename: MultiThreading6.java

```
import java.util.concurrent.*;  
  
public class MultiThreading6 implements Runnable  
{  
    public static CyclicBarrier br = new CyclicBarrier(3);  
    public void run()  
    {  
        System.out.print(" Hello ");  
        try  
        {  
            br.await();  
        }  
        catch (InterruptedException | BrokenBarrierException excpt)  
        {  
            excpt.printStackTrace();  
        }  
    }  
    public static void main(String args[]) throws InterruptedException  
    {  
        Thread th1 = new Thread(new MultiThreading6());  
        Thread th2 = new Thread(new MultiThreading6());  
  
        th1.start();  
        th2.start();  
        System.out.print(" Java ");  
  
        try  
        {  
            br.await();  
        }  
        catch (InterruptedException | BrokenBarrierException excpt)  
        {  
            excpt.printStackTrace();  
        }  
        System.out.printf(" Game Over ");  
    }  
}
```

```
}
```

- 
1. Java Hello Hello Game Over
 2. Hello Hello Java Game Over
 3. Hello Java Hello Game Over
 4. All the above

[Hide Answer](#)[Workspace](#)

Answer: d) All the above **Explanation:** Uncertainty is the key feature of multithreading. Option a is possible because the main/ parent thread is executed and has reached the barrier. Now it is waiting for the child thread to reach their barrier. Therefore, Hello is printed twice. Option b is possible because the thread scheduler schedules the child threads first, then the parent thread. For option c, the thread scheduler schedules the thread - 1. Once it reaches the barrier, the parent thread comes into action and finally, the scheduler deals with the thread-2. Thus, all of the given options are possible.

32) To restart a thread that has already been reached the dead state, we should invoke which method?

1. start()
2. restart()
3. Alive()
4. None of these

[Hide Answer](#)[Workspace](#)

Answer: d) None of these **Explanation:** In Java, it is not possible to restart a thread that has already been dead.

33) Thread registration in the thread scheduler is done by

1. start()
2. run()
3. notifyScheduler()
4. doRegistration()

[Hide Answer](#)[Workspace](#)

Answer: a) start() **Explanation:** Option b is wrong because the run() method is like the main() method of a thread. Options c and d do not exist. The start() method does the registration work.

34) Predict the output

Filename: MultiThreading7.java

```
class MyClass implements Runnable
{
    public void run()
    {
        System.out.println("Java ");
    }
}

public class MultiThreading7
{
    public static void main(String argvs[])
    {
        MyClass mt = new MyClass();
        mt.start();
        System.out.println("Thread ");
    }
}
```

1. Thread Java
2. Java Thread
3. Either a or b
4. Compile-time error

[Hide Answer](#)[Workspace](#)

Answer: d) Compile-time error **Explanation:** We will get the compile-time error because we are invoking the start() method, and the start() method is present in the thread class while we are implementing the Runnable interface.

35) Predict the output

Filename: MultiThreading8.java

```
public class MultiThreading8 extends Thread implements Runnable
{
    public void run()
    {
        System.out.printf("Hello Java! ");
    }
    public static void main(String[] args) throws InterruptedException
    {
        MultiThreading8 ob = new MultiThreading8();
        ob.run();
        ob.start();
    }
}
```

- 
1. Hello Java!
 2. Compile-time error
 3. Hello Java! Hello Java!
 4. Run time error

Hide AnswerWorkspace

Answer: c) Hello Java! Hello Java! **Explanation:** In the main method, we are invoking two methods; one is run() another is start(). The first call on the run() method is the normal call. Also, we know that whenever we call the start() method of Thread class, the run() method is called implicitly. Therefore, Hello Java! will be printed twice.

36) The method that should be defined to implement the java.lang.Runnable interface will be

1. void run()
2. public void start()
3. public void run()
4. None of the above

Hide AnswerWorkspace

Answer: c) public void run() **Explanation:** The only method that Runnable interface fetches is the void run() method. Therefore, it should be defined in our code. It is very tempting to go with option a but notice that no access specifier is mentioned. Therefore, default access specifier is used. Since access specifier of any method declared in an interface is public, therefore, we are reducing the visibility of run()

method, and this violates the Java inheritance rules which states that weaker access specifier (specifier have lower visibility as compared to one mentioned in the parent class/ interface)is not allowed in a child class.

37) The statement to instantiate an anonymous inner class that implements the Runnable interface is

1. out.print(new Runnable() { public void run() {}});
2. Runnable rn = new Runnable() {};
3. Runnable rn = new Runnable{ public void run() {}};
4. All of the above.

Hide AnswerWorkspace

Answer: a) System.out.print(new Runnable() { public void run() {}}); **Explanation:** The option c is syntactically incorrect. Hence, option d is also eliminated. The option b violates the interface implementation rule as it doesn't override the run() method. The option a not only instantiate the inner class but also overrides the run() method. Hence, option a is correct.

Garbage Collection

38) Predict the output

Filename: GarbageCollector.java

```
public class GarbageCollector
{
    public static void main(String args[]) throws InterruptedException
    {
        String s = new String("Java ");

        s = null; // eligible for garbage collection

        // Invoking garbage collector
        System.gc();

        Thread.sleep(2000); // for consistent output

        System.out.print("Main method finished ");
    }

    @Override
    protected void finalize()
}
```

```
{  
    System.out.print("Finalize method finished ");  
}  
}
```

- 
1. Main method finished
 2. Finalize method finished
 3. Main method finished Finalize method finished
 4. The program executes without any hiccup but outputs nothing

[Hide Answer](#)[Workspace](#)

Answer: a) Main method finished **Explanation:** We know that those objects that have no reference are overcome by the garbage collector, and hence, the method finalize() will be called. Since we are creating an object of the String class, we are implicitly invoking the finalize() method of the String class, not the finalize() method we have implemented in our code. If the String class does not override the finalize() method, by default, the finalize() method of the Object class is called. Therefore, no matter what happens, the finalize() method we have overridden never comes into the picture.

39) Predict the output

Filename: GarbageCollector1.java

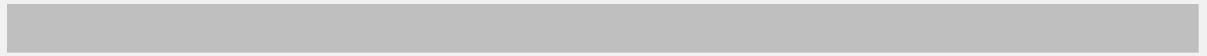
```
public class GarbageCollector1  
{  
    public static void main(String args[]) throws InterruptedException  
    {  
        GarbageCollector1 obj = new GarbageCollector1();  
  
        // Now, obj is eligible for garbage collection  
        obj = null;  
  
        // Invoking garbage collector  
        System.gc();  
  
        Thread.sleep(2000); // for consistent output  
  
        System.out.print("Main method finished ");  
    }  
  
    @Override
```

```

protected void finalize()
{
    System.out.print("Finalize method finished ");
    System.out.println(10/0);
}

}

```

- <  >
1. Main method finished
 2. Finalize method finished
 3. Main method finished Finalize method finished
 4. The program executes to print *Finalize method finished* then raises the ArithmeticException.

[Hide Answer](#)[Workspace](#)

Answer: c) Main method finished Finalize method finished **Explanation:** This time, we are creating an object of the GarbageCollector1 class. Therefore, the overridden finalize() method will be called. Whenever the Garbage Collector invokes the finalize() method, it ignores all the exceptions raised in that method. Therefore, the above program raises no exception at all.

40) Count the number of objects that are eligible for garbage collection after line number 5 is executed.

Filename: GarbageCollector2.java

```

public class GarbageCollector2
{
    public static void main(String args[])
    {
        foo(); // Line 5
    }

    static void foo()
    {
        GarbageCollector2 obj1 = new GarbageCollector2();
        GarbageCollector2 obj2 = new GarbageCollector2();
    }
}

```

<  >

1. 2

2. 1
 3. Depends on JVM
 4. None of these

[Hide Answer](#)[Workspace](#)

Answer: a) 2 **Explanation:** The foo() method has two local objects. Also, the method is not returning anything. Therefore, after the execution of line number 5, those two local objects become eligible for garbage collection.

41) Count the number of objects eligible for garbage collection after line number 8 is executed.

Filename: GarbageCollector3.java

```
public class GarbageCollector3
{
    public static void main(String args[])
    {
        GarbageCollector3 obj1 = new GarbageCollector3();
        GarbageCollector3 obj2 = foo(obj1); // line 6
        GarbageCollector3 obj3 = new GarbageCollector3();
        obj2 = obj3; // line 8

    }

    static GarbageCollector3 foo(GarbageCollector3 tmp)
    {
        tmp = new GarbageCollector3();
        return tmp;
    }
}
```

1. 2
 2. 1
 3. Depends on JVM
 4. None of these

[Hide Answer](#)[Workspace](#)

Answer: b) 1 **Explanation:** We know that Java is strictly passed by value. Therefore, the reference variable obj1 never gets affected when we invoke the method foo() at line number 6. However, the new object created in the method foo() becomes

reference less when we update the reference variable obj2 at line number 8. Thus, total count of reference less object is 1 after the execution of line number 8.

42) How many times the finalize() method gets invoked in the following program?

Filename: GarbageCollector4.java

```
public class GarbageCollector4
{
    static GarbageCollector4 obj ;

    static int cnt = 0;

    public static void main(String args[]) throws InterruptedException
    {
        GarbageCollector4 obj1 = new GarbageCollector4();

        // Now, obj1 is eligible for garbage collection
        obj1 = null; // line 12

        // calling garbage collector
        System.gc(); // line 15

        // Now, obj eligible for garbage collection,
        obj = null; // line 18

        // calling garbage collector
        System.gc(); // line 21

        Thread.sleep(2000); // for consistent output

        System.out.println("The method finalize got invoke");
    }

    @Override
    protected void finalize()
    {
        cnt++;

        obj = this; // line 33
    }
}
```

1. 1 time
2. 2 time
3. JVM decides the number of times the *finalize()* method got invoked
4. None of these

[Hide Answer](#)[Workspace](#)

Answer: a) 1 time **Explanation:** At line number 12, we have made the object eligible for garbage collection. However, in the *finalize()* method, we are assigning the same object to the reference variable *obj*. So, that object is no longer reference less and is not destroyed. At line number 18, we are again making the same object reference less. This time the garbage collector will collect the object but will not invoke the *finalize()* method. Always remember, the garbage collection calls the *finalize()* method only once for a particular object.

Collection Framework

43) Which method is used to get the first element from a linked list?

1. *getFirst()*
2. *findFirst()*
3. *retrieveFirst()*
4. None of the above

[Hide Answer](#)[Workspace](#)

Answer: a) *getFirst()* **Explanation:** The method *getFirst()* is used to retrieve the first element, if present, from the linked list.

44) What will happen when two threads try to access the same object of the class *ArrayList*?

1. The object will be shared between those two threads.
2. One thread will get access to the object while another thread waits till the first one releases the object
3. One thread gets the access to the object while another thread throws *Null Pointer* exception
4. The exception *ConcurrentModificationException* is thrown.

[Hide Answer](#)[Workspace](#)

Answer: d) The exception ConcurrentModificationException is thrown. **Explanation:** The class ArrayList is not thread-safe. Therefore, two threads can try to access the same object. This results in race condition, and the exception ConcurrentModificationException is thrown.

45) The correct way to synchronize HashMap manually is:

1. Collections.synchronizedMap(new HashMap<string, string>());
2. HashMap hp = new HashMap(); hp.synchronize();
3. Collections.synchronized(new HashMap<string, string>());
4. None of the above

Hide AnswerWorkspace

Answer: a) Collections.synchronizedMap(new HashMap<string, string>());

Explanation: The static method synchronizedMap() is used to give the synchronized view to the map upon which the method is called.

46) Predict the output.

Filename: CollectionFramework.java

```
import java.util.ArrayList;

public class CollectionFramework
{
    public static void main(String args[])
    {
        ArrayList al = new ArrayList();
        al.add("X");
        al.add("Y");
        al.add("Z");
        al.add(1, "B");
        System.out.print(al);
    }
}
```

1. [X, Y, B, Z]
2. [X, B, Z]
3. [X, B, Y, Z]
4. None of these

Hide AnswerWorkspace

Answer: c) [X, B, Y, Z] **Explanation:** The method add() adds the letter B at index 1. Whatever is present at index 1, gets shifted to index 2. The stuff present at index 2 shifts to index 3 and so on.

47) Predict the output.

Filename: CollectionFramework2.java

```
import java.util.Arrays;

public class CollectionFramework2
{
    public static void main(String argvs[])
    {
        int ar[] = new int [5];

        for (int i = 1; i < 5; i++)
        {
            ar[5 - i] = i;
        }

        Arrays.fill(ar, 0, 3, 7);

        for (int i = 0; i < 5 ; i++)
        {
            System.out.print(ar[i] + " ");
        }
    }
}
```

- 1. 0 4 3 2 1
- 2. 7 7 7 2 1
- 3. 0 3 7 2 1
- 4. 7 4 3 7 1

[Hide Answer](#)

[Workspace](#)

Answer: b) 7 7 7 2 1 **Explanation:** In the code, the method fill() of the Arrays() class fills the array ar with the number 7 start from index 0 to three places (till index 2).

48) If we save a key-value pair in a HashMap, how many times will the key be hashed?

1. 1 time
2. 2 times
3. JVM decides the number of times the given key is hashed.
4. Greater than 2 times

Hide AnswerWorkspace

Answer: b) 2 times **Explanation:** The hashCode() method of the Object class does the hashing. After that, the internal hashing method of the class HashMap does the hashing. Thus, the key is hashed twice.

Packages

49) Choose the incorrect statement about Java packages.

I) Packages are like namespaces in which classes are stored. II) It is possible to have classes that can be seen outside their packages, but their fields are confined to their packages only. III) We can re-name a package without re-naming the directory which contains the classes. IV) To avoid name clashes, the use of package should be encouraged.

1. I
2. II
3. III
4. IV

Hide AnswerWorkspace

Answer: c) **III** **Explanation:** To re-name a package, it is mandatory to re-name the folder/ directory which contains the classes.

50) Predict the output.

Filename: Package.java

```
// Observe the keyword static used after import.  
import static java.lang.System.*;  
  
public class Package  
{  
    public static void main(String args[])  
    {  
        out.println("Hello Java");  
    }  
}
```

```
}
```

1. Hello Java
2. Run time error
3. Compile-time error
4. The program executes perfectly but outputs nothing.

[Hide Answer](#)[Workspace](#)

Answer: a) Hello Java **Explanation:** All the static methods or fields get imported because we have used static import in our code. Therefore, we can omit the class name System from the println statement.



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Question 1 of 40

Which of the following function is used as a shortcut for jQuery?

Correct answer: D.

You chose: D.

This question displayed answers in random order during the test.

- A. #
- B. &
- C. @
- D. \$

Points: 1 / 1

Question 2 of 40

Identify the correct statement from the following?

Correct answer: A.

You chose: A.

This question displayed answers in random order during the test.

- A. Using let we can create block scoped variable
- B. Both var and let are used to create function scoped variable
- C. The variable created using var keyword is not global scoped
- D. Both var and let are used to create block scoped variable

Question 3 of 40

What will be the return value for `typeof(null)` in javascript?

Correct answer: C.

You chose: D.

This question displayed answers in random order during the test.

A. string

B. null

→ C. object

✗ D. NaN

Points: 0 / 1

Question 4 of 40

The advantages of using node modules are?

Correct answer: D.

You chose: D.

A. Provides means of dividing up tasks

B. Provides a means of reuse of program code

C. Provides a means of testing individual parts of program

✓ D. All of the above

Points: 1 / 1

Question 5 of 40

```
<script>
x=10;
function myFunction(){
console.log(x);
}
var x= 20;
myFunction();
</script>
```

What will be the console output of above java script code snippet?

Correct answer: C.

You chose: D.

This question displayed answers in random order during the test.

A. undefined

B. 10

→ C. 20

✗ D. Error

Points: 0 / 1

Question 6 of 40

What value of XMLHttpRequest.readyState in ajax is checked for response readiness?

Correct answer: B.

You chose: C.

This question displayed answers in random order during the test.

A. 3

→ B. 4

✗ C. 2

D. 1

Points: 0 / 1

Question 7 of 40

Which of the following is not a valid datatype in Javascript?

Correct answer: B.

You chose: D.

This question displayed answers in random order during the test.

A. Number

→ B. Float

C. Boolean

✗ D. Undefined

Given the following HTML code:

```
<input type="text" id="zip">
```

Which is the most correct JavascriptRegular expression pattern to check for exactly 6 digit zip code in the text field (no other text allowed in textfield) ?

Correct answer: **B.**

You chose: **B.**

This question displayed answers in random order during the test.

A. \d\d\d\d\d\d/

✓ B. /^[0-9]{6}\$/

C. /[0-9]+/

D. /[0-9]*/

Points: 1 / 1

Question 9 of 40

Consider a HTML page with a number of header tags, Which is the correct JQuery code to apply a background color of blue to all the h3 elements?

Correct answer: **C.**

You chose: **C.**

This question displayed answers in random order during the test.

A. \$("h3").addClass("background-color","blue")

B. \$("h3").layout("background-color","blue")

✓ C. \$("h3").css("background-color","blue")

D. \$("h3").style("background-color","blue")

Question 10 of 40

What is the correct way to create a text area in a HTML form?

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

A. <textarea name="address">

Please write your address
</textarea>

✓ B. <textarea name="address" rows=5 col=10>

Please write your address
</textarea>

C. <input type="textarea" name="address" rows=5 col=10>

Please write your address
</input>

D. <input type="text" multiple=true name="address">

Please write your address
</input>

Points: 1 / 1

Question 11 of 40

Which is the default port on which Node.js runs?

Correct answer: C.

You chose: C.

This question displayed answers in random order during the test.

A. 4000

B. 1000

✓ C. 3000

D. 2000

Points: 1 / 1

Question 12 of 40

Identify the correct command to run a REPL session in node.

Correct answer: D.

You chose: C.

This question displayed answers in random order during the test.

A. node start

B. node init

✗ C. node repl

→ D. node

Points: 0 / 1

Question 13 of 40

Identify the wrong statement from the following:

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

- A. With promise, we can defer the execution of a code block until an async request is completed
- B. A promise has four possible outcomes
- C. A promise is used to handle the asynchronous result of an operation
- D. A promise has three possible states

Points: 1 / 1

Question 14 of 40

Which of the following is a software application used for accessing the information on the World Wide Web?

Correct answer: D.

You chose: D.

This question displayed answers in random order during the test.

- A. Microsoft Word
- B. System software
- C. Operating System
- D. Web Browser

Question 15 of 40

Which is the correct way to create a hyperlink in HTML?

Correct answer: D.
You chose: D.

This question displayed answers in random order during the test.

- A. SomeServer.com
- B. <a>http://www.someserver.com
- C. SomeServer.com
- D. SomeServer.com

Points: 1 / 1

Question 16 of 40

When you modify the state of a React component, the component _____.

Correct answer: A.
You chose: A.

This question displayed answers in random order during the test.

- A. automatically re-renders
- B. does nothing, you have to call the render method to render the component
- C. is recreated from scratch
- D. state is read only, you cannot modify state.

Question 17 of 40

Given this HTML code:

```
<body>
  <p> para-1</p>
  <div>
    <p>para-2</p>
    <p> para-3</p>
  </div>
<h2> Header-2</h2>
<p>para-4</p>
</body>
```

What is the correct JavaScript code to change font color of all the paragraphs in the document to blue?

Correct answer: **C.**

You chose: **D.**

This question displayed answers in random order during the test.

A. `<script>`

```
let list = document.getElementsByName("p");
for(i=0;i<list.length;i++)
  list[i].style.color="blue"
//document.getElementsByTagName("p").style.color="blue"
</script>
```

B. `<script>`

```
let list = document.getElementById("p");
for(i=0;i<list.length;i++)
  list[i].style.color="blue"
</script>
```

→ C. `<script>`

```
let list = document.getElementsByTagName("p");
for(i=0;i<list.length;i++)
  list[i].style.color="blue"
```

Question 18 of 40

Which of the following is a valid HTML syntax for creating multi line text input control?

Correct answer: C.

You chose: A.

This question displayed answers in random order during the test.

- ✗ A. <input type="text">
- B. <textbox>
- ➔ C. <textarea>
- D. <input type="textarea">

Points: 0 / 1

Question 19 of 40

Which of the following allows an attacker to induce a victim user to perform actions that they do not intend to?

Correct answer: A.

You chose: A.

This question displayed answers in random order during the test.

- ✓ A. Cross-site request forgery(CSIRF)
- B. Insecure deserialization
- C. SQL Injection
- D. Cross-Site Scripting(XSS)

Question 20 of 40

What is the name of the function that is used to change the state of a class-based React component?

Correct answer: A.

You chose: A.

This question displayed answers in random order during the test.

- A. `this.setState()`
- B. `this.state = {new value}`
- C. `this.changeState()`
- D. `this.setXXX()`, where XXX can be any function name

Points: 1 / 1

Question 21 of 40

What is the default scope in the Node.js application ?

Correct answer: D.

You chose: B.

This question displayed answers in random order during the test.

- A. Local to object
- B. Global
- C. Global Function
- D. Local

Question 22 of 40

Which of the below HTTP status code indicates redirection?

Correct answer: D.

You chose: C.

This question displayed answers in random order during the test.

A. 226

B. 202

✗ C. 501

➔ D. 307

Points: 0 / 1

Question 23 of 40

Which is the correct way to read the contents of a file asynchronously and displays the content in console in Node using fs module

Correct answer: A.

You chose: B.

This question displayed answers in random order during the test.

➔ A. `fs.readFile("test.txt",function(err,data)=>{
 if(err) return console.error(err);
 console.log(data.toString());
});`

✗ B. `var data = fs.readFile("test.txt")
Console.log(data.toString());`

Question 24 of 40

To include the HTTP server in the node module, what function do we use?

Correct answer: B.

You chose: B.

- A. get()
- B. require()
- C. createServer()
- D. None of the above

Points: 1 / 1

Question 25 of 40

In Nodejs, consider a module called myapp.js that exports a json object:

```
//myapp.js  
var obj={"name":"amit","age":23};  
//code to export this obj
```

Create another file - TestMyApp.js. Which one of the following is the correct code to write in TestMyApp.js file that will import the myapp.js and display the name and age?

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

- A. const app = import('./myapp');
console.log(app.name,app.age);
- B. const app = require('./myapp');
console.log(app.name,app.age);

Question 26 of 40

in jQuery, `$.hide()` is equivalent to

Correct answer: A.
You chose: B.

This question displayed answers in random order during the test.

- A. `jQuery.hide()`
- ✗ B. `document.hide()`
- C. `javascript.hide()`
- D. `jq.hide()`

Points: 0 / 1

Question 27 of 40

How can you make properties and method available outside the module file in Node.js?

Correct answer: B.
You chose: A.

This question displayed answers in random order during the test.

- ✗ A. `module.expose`
- B. `module.exports`
- C. `module.ng.exports`
- D. `module.export`

Question 28 of 40

Consider a HTML page with multiple paragraphs. What is the correct way in jQuery to iterate through all the paragraphs and display their contents? Choose the correct option from below:

Correct answer: D.

You chose: C.

This question displayed answers in random order during the test.

A. `$(“p”).forEach(function(){
 console.log($this.text());
});`

B. `$(“p”).loop(function(){
 console.log($this.text());
});`

✗ C. `$(“p”).iterate(function(){
 console.log($this.text());
});`

→ D. `$(“p”).each(function(){
 console.log($this.text());
});`

Points: 0 / 1

Question 29 of 40

In React, what is the common use case for "ref" in an uncontrolled component?

Correct answer: B.

You chose: C.

This question displayed answers in random order during the test.

- A. To refer to a function
- B. To directly access the underlying DOM**
- ✗ C. To refer to an external JavaScript file**
- D. To bind the function

Points: 0 / 1

Question 30 of 40

Which of the following file in Node.js application contains information about project dependencies?

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

- A. pom.xml
- ✓ B. package.json**
- C. pom.json
- D. package.xml

Question 31 of 40

Given the following JavaScript code

```
let promise = new Promise(function(resolve,reject){  
setTimeout(()=> resolve("done!"),3000);  
});  
//resolve runs the first function in then  
promise.then(  
result=>console.log(result),  
error=>console.log("Error!")  
);  
What is the output?
```

Correct answer: D.

You chose: A.

This question displayed answers in random order during the test.

- A. Incorrect code; There is no catch() block
- B. done! Error!
- C. Error!
- D. done!

Points: 0 / 1

Question 32 of 40

Which of the following java script function is used to register a function to be invoked after the specified number of milliseconds?

Correct answer: **D**.

You chose: **C**.

This question displayed answers in random order during the test.

- A. setMiliSeconds()
- B. setInterval()
- X C. setTime()**
- D. setTimeout()**

Points: 0 / 1

Question 33 of 40

Which of the following javascript method will return true if its argument is not a number;

Correct answer: **D**.

You chose: **C**.

This question displayed answers in random order during the test.

- A. isFinite()**
- B. isNumber()**
- X C. NaN()**
- D. isNaN()**

Question 34 of 40

Which of the following statement is true for React Js?

Correct answer: A.

You chose: A.

This question displayed answers in random order during the test.

- A. State can be managed with both class & functional components
- B. State can't be managed with class or functional component
- C. State can be managed with class components only
- D. State can be managed with functional components only

Points: 1 / 1

Question 35 of 40

Which of the following statement is wrong?

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

- A. In React, the data is passed top-down(parent to child) via props
- B. Props provides a way to pass data through the component tree without having to pass context down manually at every level.
- C. Context provides a way to pass data through the component tree without having to pass props down manually at every level.

SDM Test

Total points 20/40



Student ID: *

220340320030

Name: *

Ashok Pate

Centre: *

 Juhu Kharghar

✗ 1.What does SDLC stands for? .../1

- a) System Design Life Cycle
- b) Software Design Life Cycle
- c) Software Development Life Cycle ✗
- d) System Development Life cycle

No correct answers



✓ 2. Who proposed the spiral model?

1/1

- a) Barry Boehm
- b) Pressman
- c) Royce
- d) IBM

✓

✓ 3. _____ suits the Manifesto for Agile Software Development. 1/1

- a) Customer collaboration
- b) Individuals and interactions
- c) Working software
- d) All of the mentioned

✓

✓ 4. Which command is used to push the code into git staging area? * 1/1

- git pull
- git add
- git push
- git commit

✓



✓ 5.What is Kubernetes?

1/1

- Portable platform
- Extensible platform
- Open-source platform
- All of the Above



✓ 6.Which of the following command creates an empty git repository or
reinitialize an existing one?

*1/1

- git create
- git init
- git initialize
- git launch



✓ 7.Which of the following architectural layer is used as front end in cloud
computing ?

*1/1

- Cloud
- Middle layer
- Client
- Soft



✓ 8. provide complete isolation from the host operating system and the other virtual machines .So it is fully secure *1/1

- Security
- cloud
- Virtualization ✓
- Containerization

✗ 9.How many phases are there in Scrum ? 0/1

- a) Two
- b) Three
- c) Four ✗
- d) Scrum is an agile method which means it does not have phases

Correct answer

- b) Three



✗ 10.Which of the following Agile methodology advocates the use of problem domain? 0/1

- Evo
- Scrum ✗
- Extreme programming
- Feature Driven Development (FDD)

Correct answer

- Feature Driven Development (FDD)

✗ 11.In YAML, Explicit Tags are denoted using the symbol? 0/1

- exclamation point (!)
- pipe character (|) ✗
- greater-than symbol (>)
- question mark(?)

Correct answer

- exclamation point (!)



✗ 12.In which step of SDLC actual programming of software code is done? 0/1

- a) Development and Documentation
- b) Maintenance and Evaluation
- c) Design
- d) Analysis

✗

Correct answer

- a) Development and Documentation

✓ 13.RAD stands for

1/1

- a) Relative Application Development
- b) Rapid Application Development
- c) Rapid Application Document
- d) None of the mentioned

✓

✓ 14.which one of the following is delivered at the end of the sprint *

1/1

- document containing test cases for the current sprint
- An architectural design for the solution
- An increment of done software
- Wireframe designs for User Interface

✓



✗ 15. Which of the following activities is not fundamental to software engineering *0/1

- Software Standardization
- Software Specification
- Software Validation
- Software Evolution

✗

Correct answer

- Software Validation

✗ 16.Which one of the following technique is applied for usability testing * 0/1

- White box
- Black box ans
- Grey box
- All of the above

✗

Correct answer

- Black box ans

✓ 17.White Box techniques are also classified as * 1/1

- Design based testing
- Structural testing
- Error guessing technique
- None of the mentioned

✓



✓ 18.Which of the following is/are White box technique? *

1/1

- Statement Testing
- Decision Testing
- Condition Coverage
- All of the mentioned



✗ 19.Boundary value analysis belong to? *

0/1

- White Box Testing
- Black Box Testing
- White Box & Black Box Testing
- None of the mentioned



Correct answer

- Black Box Testing

✗ 20.Which of the following is a structured data store that supports indexing and data queries to both EC2 and S3? 0/1

- CloudWatch
- Amazon SimpleDB
- Amazon Cloudfront
- All of the mentioned



Correct answer

- Amazon SimpleDB



✓ 21.What is the full form of Selenium IDE?

1/1

- Selenium Interrelated Development Environment
- Selenium Intialization Development Environment
- Selenium Information Development Environment
- Selenium Integrated Development Environment



✓ 22.Selenium component support all operating system

1/1

- IDE
- WebDriver
- Generator
- None of the mentioned



✓ 23.TestNG stands for

1/1

- TestNextGenerations
- TestNextGeneration
- TestNewGeneration
- TestNewGenerlization



X 24.Selenium tests.....

.../1

- GUI applications
- Browser-based applications X
- DOS applications
- None of the above

No correct answers**✓ 25.The Web driver is used**

1/1

- to quickly create tests
- to design a test using Selenese
- to execute tests on the HtmlUnit browser ✓
- to test a web application against Firefox only.

X 26.The model which has a major disadvantage in terms of the coding phase of a software life cycle model is _____

0/1

- a) Rad Model X
- b) Spiral Model
- c) 4GT Model
- d) Waterfall Model

Correct answer

- c) 4GT Model



✖ 27. Agile Software Development is based on

0/1

- a) Incremental Development ✖
- b) Iterative Development
- c) Linear Development
- d) Both Incremental and Iterative Development

Correct answer

- d) Both Incremental and Iterative Development

✓ 28. Which one of the following models is not suitable for accommodating any change? 1/1

- a) Build & Fix Model
- b) Prototyping Model
- c) RAD Model
- d) Waterfall Model ✓



✖ 29.Which is not one of the types of prototype of Prototyping Model?

0/1

- a) Horizontal Prototype
- b) Vertical Prototype
- c) Diagonal Prototype
- d) Domain Prototype

✖

Correct answer

- c) Diagonal Prototype

✖ 30.Which model can be selected if user is involved in all the phases of SDLC?

0/1

- a) Waterfall Model
- b) Prototyping Model
- c) RAD Model
- d) both Prototyping Model & RAD Model

✖

Correct answer

- c) RAD Model



✗ 31.Which of the following is applicable on software radio?

0/1

- a) Environmental Control
- b) Process Pipeline
- c) Distributed system
- d) None of the mentioned

✗

Correct answer

- b) Process Pipeline

✓ 32.The user system requirements are the parts of which document ?

1/1

- a) SDD
- b) SRS
- c) DDD
- d) SRD

✓

✗ 33.which of the following views cannot be captured using UML diagram

0/1

- Layer view
- User view
- Structural view
- All of the above

✗

Correct answer

- Layer view



✗ 34.The process of transforming a model into source code is known as 0/1

- a) Forward engineering
- b) Reverse engineering ✗
- c) Re-engineering
- d) Reconstructing

Correct answer

- a) Forward engineering

✓ 35.Which level of Entity Relationship Diagram (ERD) models all entities and 1/1 relationships ? 1/1

- a) Level 1
- b) Level 2 ✓
- c) Level 3
- d) Level 4



✗ 36.Which of the following is not a part of the Test Implementation and Execution Phase? 0/1

- a. Creating test suites from the test cases
- b. Executing test cases either manually or by using test execution tools ✗
- c. Comparing actual results
- d. Designing the Tests

Correct answer

- d. Designing the Tests

✗ 37. Alpha and Beta Testing are forms of _____. 0/1

- a. Acceptance testing
- b. Integration testing
- c. System Testing
- d. Unit testing ✗

Correct answer

- a. Acceptance testing



✗ 38.The model in which the requirements are implemented by its category is 0/1

- a. Evolutionary Development Model
- b. Waterfall Model
- c. Prototyping
- d. Iterative Enhancement Model

✗

Correct answer

- a. Evolutionary Development Model

✓ 39.The tools that support different stages of software development life cycle are called _____. 1/1

- a. CASE Tools
- b. CAME tools
- c. CAQE tools
- d. CARE tools

✓

✓ 40.Which is the most important feature of spiral model? * 1/1

- a. Quality management
- b. Risk management
- c. Performance management
- d. Efficiency management

✓



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WTP TEST

Total points 28/40



Time--45 min, 40 question

NAME *

Ashok Pate

EMAIL *

ashokdgate@gmail.com

CENTRE * KHARGHAR JUHU

✓ The correct sequence of HTML tags for starting a webpage is -

1/1

 Head, Title, HTML, body HTML, Body, Title, Head HTML, Head, Title, Body HTML,TITLE,BODY

✓ Which of the following tag is used to insert a line-break in HTML?

1/1

-

- <a>
- <pre>
-



✓ Which character is used to represent the closing of a tag in HTML?

1/1

- \
- !
- /
- .



✓ How to add a background color in HTML?

1/1

- <marquee bg color: "red">
- <marquee bg-color = "red">
- <marquee bgcolor = "red">
- <marquee color = "red">



✓ Which of the following attribute is used to provide a unique name to an element? 1/1

- class
- id ✓
- type
- None of the above

✗ Which of the following HTML tag is used to display the text with scrolling effect? 0/1

- <marquee>
- <scroll> ✗
- <div>
- None of the above

Correct answer

- <marquee>

✓ Which of the following is the correct way to send mail in HTML? 1/1

- ✓
-
- <mail xy@y</mail>
- None of the above



✓ Which of the following HTML attribute is used to define inline styles? 1/1

style ✓

type

class

None of the above

✓ A program in HTML can be rendered and read by - 1/1

Web browser ✓

Server

Interpreter

None of the above

✓ Which of the following are the attributes of the tag? 1/1

method

action

Both (a) & (b) ✓

None of the above



✓ Which of the following is the correct syntax to make the background-color of all paragraph elements to yellow? 1/1

- p {background-color : yellow;}
- p {background-color : #yellow;}
- all {background-color : yellow;}
- all p {background-color : #yellow;}



✗ Which of the following property is used as the shorthand property for the padding properties? 0/1

- padding-left
- padding-right
- padding
- All of the above



Correct answer

- padding

✓ The CSS property used to specify the transparency of an element is - 1/1

- opacity
- filter
- visibility
- overlay



✗ The CSS property used to specify whether the text is written in the horizontal or vertical direction?

0/1

- writing-mode
- text-indent
- word-break
- None of the above

✗

Correct answer

- writing-mode

✓ The CSS property used to draw a line around the elements outside the border?

1/1

- border
- outline
- padding
- line

✓



✖ Which of the following class in Bootstrap is used to provide a responsive fixed width container? 0/1

- container-fixed ✖
- container-fluid
- container
- All of the above

Correct answer

- container

✓ How many columns are allowed in a bootstrap grid system? 1/1

- 2
- 12 ✓
- 3
- 5

✓ Which of the following class in bootstrap is used to create a big box for calling extra attention? 1/1

- .box
- .container
- .container-fluid
- .jumbotron ✓



✓ The correct syntax of creating a standard navigation bar is -

1/1

- <nav class="navigationbar navbar">
- <nav class="navbar navbar-default">
- <nav class="nav navbar">
- <nav class="navbar default">



✓ Which of the following is the correct syntax of creating a standard navigation tab?

1/1

- <ul class="navigation nav-tabs">
- <ul class="nav tab">
- <ul class="nav nav-tabs">
- <ul class="navigation tabs">



✗ Which of the following class is used to create a black navigation bar?

0/1

- .navbar-default
- .navbar-inverse
- .navbar-black
- .navbar-dark



Correct answer

- .navbar-inverse



✓ The plugin used to create a cycle through elements as a slideshow is - 1/1

- slideshow
- scrollspy
- carousel ✓
- None of the above

✗ Which of the following class in Bootstrap is used to create a basic list group? 0/1

- .grouped-list ✗
- .select-list
- .list-group
- Option 4

Correct answer

- .list-group

✓ Which of the following class in Bootstrap is used to add a zebra-stripe to a table? 1/1

- .tab-striped
- .zebra-strip
- .table-striped ✓
- .table-striped



✓ Which of the following class in Bootstrap is used to create a large button? 1/1

- .btn-xl
- .btn-lrg
- .btn-large
- .btn-lg



✓ Which of the following plugin in Bootstrap is used to create a modal window? 1/1

- popup
- alert
- modal
- window



✓ The class in Bootstrap which is used to specify the collapsible elements is 1/1

- .collapse
- .carousel
- .pager
- None of the above



✓ The class used for creating the small size wells is -

1/1

- .well-small
- .well-short
- .well-lg
- .well-sm



✓ Which of the following is the correct syntax to insert search icon?

1/1

-
-
-
-



✓ Which of the following is correct method to add a success button?

1/1

- <button class = "btn btn-success"> success </button>
- <button class = "btn button-success"> success </button>
- <button class = "button btn-success"> success </button>
- <button class = "button btn-primary"> success </button>



✓ Is it true that the Bootstrap grid system works across multiple devices? 1/1

- True ✓
- False
- Can't say
- May be

✗ The class "xs" in Bootstrap is used for - 0/1

- tablets
- phones
- desktop
- All of the above ✗

Correct answer

- phones

✓ Which of the following class in Bootstrap is used to create an animated progress bar? 1/1

- .active ✓
- .progress-success
- .progress-active
- None of the above



✗ The element _____ simply groups items within an enclosed dd tag, 0/1 though it may associate them with a caption defined by a dt tag.

- object
- figure ✗
- embed
- collect

Correct answer

- object

✓ The _____ element is used to render simple graphics such as line art, 1/1 graphs, and other custom graphical elements on the client side.

- metadata
- css
- canvas ✓
- art

✓ . Consider the following markup and answer the question that follow. 1/1
`<source src="html_5.mp4" type="video/mp4"><source src="html_5.ogv" type="video/ogg">`What is the need to add multiple file formats for the same file?

- To provide fallback support
- To address the media support problem
- To provide fallback support & address the media support problem ✓
- To provide foul back support



✗ In HTML Audio/Video DOM, _____ sets or returns whether the audio/video should be loaded when the page loads.

0/1

- preload
- autoplay ✗
- buffered
- controller

Correct answer

- preload

✗ Which of the following is not a HTML5 tag?

0/1

- <video>
- <source>
- <track> ✗
- <slider>

Correct answer

- <slider>



✖ Which of the following HTML Video – Media Type is not supported in IE? 0/1

- WebM
- MP4
- Ogg
- MP4 FLAC

✖

Correct answer

- Ogg

✖ In HTML Audio/Video DOM, _____ returns a TimeRanges object representing the buffered parts of the audio/video. 0/1

- preload
- networkState
- buffered
- controller

✖

Correct answer

- buffered

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