

Know your TCS (KYT)

1. Who was the founder of the TATA group?
Ans: Jamsetji TATA
2. When was TCS found?
Ans: 1968
3. Which is India's first indigenous designed and manufactured car?
Ans: TATA Indica
4. Which characteristics of Big Data deal with the trustworthiness of Data?
Ans: Veracity
5. What was originally called the "Imitation Game" by its creator?
Ans: The Turing Test
6. Is 90% of the world's data is created in the last 2 years?
Ans: True
7. In the 1990s, which company did TATA Steel acquire?
Ans: Corus
8. How many independently operating companies are there under the TATA group?
Ans: over 100s
9. We use Natural Language Processing for reviewing Twitter feeds. True or False?
Ans: True
10. According to the study of IBM, approximately how much data existed in the Digital Universe in 2012?
Ans: 2.7 ZetaBytes
11. AI cannot be used in health care as this involves doctors and patients. True or False?
Ans: False
12. The change of mindset is required from "Optimizing Scarce Resources to Harnessing Abundance" will help in?
Ans: Leveraging Ecosystems
13. Robots can be used for building houses. True or False?
Ans: True
14. When did TATA motors unveil TATA NANO?
Ans: 2008
15. Business 4.0 brings sophistication to the _____
Ans: Demand supply
16. Machine perception is the ability to use input from sensors to get information. True or False?
Ans: True
17. Which among the following key for IT management based on the proper use of Data?
Ans: Embedding Security in every System
18. What is the change of mindset Business 4.0 is looking at when it comes to Embracing Risks?
Ans: Embracing Risks and Adapt and Transform continuously

19. When TATA Airlines, a division of TATA Sons is established?
Ans: 1932
20. Who formalized the code of conduct?
Ans: Ratan TATA
21. Who formed the joint venture to open Starbucks Cafes across India?
Ans: Tata Global Beverages and Starbucks
22. What are the 5 TCS values?
Ans: 1. Leading Change
2. Integrity
3. Respect for individual
4. Excellence
5. Learning and Sharing
23. What are the 5 TATA values?
Ans: 1. Integrity
2. Unity
3. Responsibility
4. Pioneering
5. Excellence
24. A person who identified the qualification problem in AI is _____
Ans: John C Matchy
25. Which of the methods is used by humans while making judgments?
Ans: Intuitive method
26. Big Data infrastructure can store video files as well. True or False?
Ans: True
27. The field that investigates the mechanics of Human Intelligence is _____
Ans: Cognitive Science
28. AI is the Science and Engineering of making Intelligent Machines. True or False?
Ans: True
29. Popular approaches of AI are _____
Ans: Traditional, computational, and Statistical
30. What are the 4 Vs of Big Data?
Ans: 1. Volume
2. Velocity
3. Veracity
4. Variety
31. Clickstream Analytics is associated with which characteristic of Big Data?
Ans: Velocity
32. The study of Computer Algorithms that improve automatically through experience is called?
Ans: Machine Learning
33. Which one is not one of the Cloud-based services?
Ans: Enterprise Cloud

34. SAAS stands for what?
Ans: Software As A Service
35. Private Cloud is _____
Ans: The cloud service where a company owns the infrastructure
36. What is meant by Native Application?
Ans: It is best mobile app when we are dealing with Resource intensive application
37. What are the problems associated with Big Data?
**Ans: 1. Inexperience collecting data from non Traditional Sources
2. Overly complex with relatively slow systems**
38. The science behind simulating structures inside Brain is called as _____
Ans: Neural Networks

BizSkills

1. How many seconds of videos does YouTube upload every minute?
Ans: 10,80,000 Seconds of videos are uploaded every minute (300 hours)
2. What are the five elements of conversation?
Ans: Opening, feedforward, business, feedback, closing
3. Which is not a part of the pre-writing process?
Ans: Proof Reading
4. What is meant by being objective in writing skills?
**Ans: 1. Figuring out accurate facts and something
2. Figuring out facts but not personal views**
5. While making the help document for the ABC application which factors should be in consideration?
**Ans: 1. User Experience
2. Technical knowledge
3. Experience**
6. Details provided in the signature of email are...
**Ans: 1. Name
2. Phone Number
3. Role**
7. Two A's of effective writing are...
Ans: Accurate and Accessible
8. Judging others based on our culture means...
Ans: Ethnocentrism
9. The production logs can be shared with the concerned team after appropriate _____
Ans: Approval
10. If a client becomes informal to you then what will you do?
Ans: Task-oriented and will not send any stickers
11. Agile principle features are...
Ans: 1. Leadership over management

2. Adaptive over-prescriptive

3. Customer collaborative over comfort negotiation

12. If you are in between your assessment and your manager told you to attend the call. What would you do?

Ans: Say him politely that you will attend the call after your assessment

13. How would you decline help?

Ans: Politely tell that you are okay and thank you for asking

14. Client sharing memes. What to do?

Ans: Paul should be task-oriented and polite and ignore

15. The contexts of email are...

Ans: Introduction, body, and conclusion

16. The purpose of writing is expressed by which type of question?

Ans: why

17. What to consider while creating help documents for newly introduced search engines in ABC site?

Ans: 1. Technical Knowledge

2. Interest of user

3. Experience

18. Paul is going to his brother's wedding. What should he exclude in his draft leave email?

Ans: Current project status and whom to handover until he returns

19. What is the value-added service?

Ans: Customers start recognizing and comparing you with other brand names

20. Kav is a client from Germany team who speaks in their regional language. He feels a bit lost. What can the team do differently?

Ans: The team lead should have stressed the usage of a common language that is English among team members

21. Mark the correct one which can be written in PSR (Project Status Report)

Ans: 1. Current status

2. Plan for next phase

3. Areas of concern

4. Suggestions

22. MOM contains...

Ans: date, time, points discussed, participants, agenda, the date for the next meeting

23. What is upward flow and downward flow?

Ans: Junior to Senior and Senior to Junior

24. Cathy sends an invitation to her team members for an unplanned meeting to discuss a new feature to be added in the project. Due to the shortage in time, she sends the invitation without and agenda. Choose the correct option.

Ans: An agenda needs to be shared along with the meeting invite

25. Mike wants to draft an email to his client after his team came up with the network of an application. The network was asked to be done by the client due to some issues that the customer faced after the sample product was tested in the market. How should Mike start his email?

Ans: Apologies to the client for not meeting his expectations

26. Vivian had around 5 min before an important meeting. He found a client mail in his inbox and asked for additional requirements. He is of the belief that emails need to be responded to promptly Vivian wanted to be on time for the meeting and also wanted to reply to the client. What should he do?

Ans: Take time after the meeting and reply to the client after analyzing the requirement in detail.

27. Select the effective sentence...

Ans: The manager's laissez fair attitude has led to an efficient work culture in the team

28. You received the project requirements from the client you are not clear about a certain requirement. What is the right way to respond?

Ans: Send an email to the client keeping your manager in the loop

29. Which of the following factors should be considered while wearing ties?

Ans: The tip of the tie should always touch the beltline

30. Which of the following statements are incorrect?

Ans: BCC field is typically used for internal broadcast

31. Replace the underlined words with a more meaningful one.

"Ben reverted/_____ back to the mail saying that the team will work collaboratively together"

Ans: Replied, together

32. What is true about being agile?

Ans: Agile is driven by action.

33. While writing a subject line it should be _____

Ans: 1. Draw the attention of the reader

2. Deliver the crux of the email

34. How can one develop assertiveness?

Ans: 1. by showing empathy

2. by being open to feedback

3. by respecting everyone views

35. As you are working, you find that certain queries need to be clarified with the client. Upon opening the instant messenger, you find the status of the client as available. What would you do?

Ans: Check whether the client is free to chat. Post your query if the client is free else check for a suitable time.

36. You meet your colleague in a shopping mall. Choose the best response.

Ans: Say Hi, How is your day? After exchanging pleasantries, you may close the conversation.

37. Can we share funny videos with co-workers...

Ans: It is best to refrain from sending videos unrelated to work.

38. Choose the correct options for a good email:
Ans: 1. Should never overcommunicate
2. Should be properly spaced and arranged
3. Should be polite in tone
39. How do you ask your supervisor for a promotion in an assertive tone?
Ans: I would like you to consider my name for the promotion as I believe I have taken on many new responsibilities lately.
40. When communicating with vendors, which of the following statements is true?
Ans: We need to document every message between the vendor and TCS
41. TCS has created software as required for a certain bank and adds some addons
Ans: Value-added service
42. The elevators are always crowded at ABC facility. What rules of elevator etiquette should be followed?
Ans: Always allow the people inside the elevator to disembark before entering the elevator.
43. Select the appropriate statement while transferring a call
Ans: "Hello Mr. Daniel. Let's get this problem resolved for you. I'm going to transfer you to our specialist who is the best-suited person to answer your question."
44. In which country, group discussion is an important culture?
Ans: India, Japan, and Australia
45. Some authorized members of 3rd team deleted some extra data. This is because of?
Ans: None of these (no option available)
46. One member of a team needs help to solve a problem, but he is afraid to ask for help. He thinks that they will not help him. This occurs due to?
Ans: Subject of Assumption

DBMS & RIO

1. RIO stands for?
Ans: Rigor In Operations
2. RIO celebrates weekly. why?
Ans: Aimed to improve System support
3. Transition phase...
Ans: 1. Primary -> Secondary -> KT
4. How to print server output on the terminal?
Ans: Set Serveroutput on
5. What is the difference between primary key and foreign key in DBMS?
Ans: 1. Primary key is only one and foreign key may be one or more
2. Primary key is unique and foreign key can be duplicate
3. Primary key can't null and foreign key can be null

6. _____ celebrated as TCS operations day and the whole week is known as RIO week to spread awareness about RIO
Ans: 24 July
7. Which normalization removes transitive dependency?
Ans: 3NF
8. Name the pledge taken by support engineers to ensure they adhere to project discipline
Ans: Operations pledge
9. Insert into category values(2, 'TCS', 1200.99)
Ans: Successfully inserted
10. What is the operation flow of information in RIO?
Ans: Primary -> Secondary -> KT
11. The truncated command cannot be used with where clause. True or False?
Ans: True
12. RIO question:
Ans: Discipline in execution + pursuit of excellence + customer experience
13. Students as a group associated with multiple faculty members and faculty members are associated with multiple students. What do you call this relationship?
Ans: Many to Many
14. The role of production support engineer requires _____
Ans: Right combination of technical and interpersonal skills
15. RIO is an initiative that is aimed at improving our _____
Ans: Production support operations
16. What are the various keywords used along with the ALTER statements?
Ans: DROP, RENAME, ADD, MODIFY
17. Which of the below option ensure that the value of COLUMN (named as budget) is non-negative?
Ans: check (budget >= 0)

Design Principles & Algorithms

1. Which is the fastest sorting algorithm?
heap
merge
bubble
selection
Ans: merge
2. Which algorithm will give the best performance when the array is half or almost sorted?
Ans: Insertion sort
3. KISS design principle
Ans: Keep It Simple Stupid
4. _____ method is used for state-space search problem?
Ans: Backtracking and Branch and Bound

5. Which of these are core design principles?
Ans: KISS, DRY, WET, YAGNI, SOLID
6. _____ is the first step in solving the problem?
Ans: Identify the solution
7. Which is not the dynamic programming?
Ans: Prim's Algorithm
8. What is the time complexity of quicksort?
Ans: $O(n \log n)$
9. Duplication of code is the root cause of the problem in the design principle. True or False?
Ans: True
10. Kadane algorithm is used to find _____
Ans: Maximum sum subarray in an array
11. Computer algorithm which learns using previous results is _____
Ans: Classification
12. The advantages of SOLID principles are...
Ans: Robust, flexible, and less cost of maintenance
13. The advantages of using Design principles are...
Ans: Extensible, reliability, and flexibility
14. Algorithm category _____
Ans: Minimum coupling and increase cohesion
15. What is meant by a single responsibility principle?
Ans: A class should do one thing only
16. What are the characteristics of algorithms?
**Ans: 1. Algorithms have unambiguous instructions
2. Algorithms have effectively computable instructions
3. Algorithms are well ordered**
17. PANs have a limited range of connection which is less than _____
Ans: 30 feet
18. Which of the following are the analysis methods?
**Ans: 1. Running time complexities
2. Recurrence Relations
3. Asymptotic notations**
19. Which statement is used in the COBOL program to terminate the execution?
Ans: STOP RUN
20. What does DAS stand for?
Ans: Direct Attached Storage
21. How many ways the recurrence relation can be solved?
Ans: 3 ways
22. Structured programming follows two basic principles by Dijkstra's are...
**Ans: 1. Avoid GOTO statement
2. Use of single entry and single exit blocks**
23. _____ used for low level or machine level programming
Ans: GOTO

24. The type of network that connects all TCS offices in Chennai is _____
Ans: MAN
25. Which of the following complexity analysis is correct?
Ans: 1. The worse case running time for building red-black tree is $O(n \log n)$
2. The worse case running time for building a binary search tree is $O(n^2)$
26. _____ solution required reasoning build on knowledge and experience
Ans: Heuristic Solution
27. SCADA stands for
Ans: Supervisory Control And Data Acquisition

Java

- Which operator gives results **if no condition satisfies?**
Ans: NOT operator
- Which is not the correct declaration?
int a_1
int 1_a
int A1
Ans: int 1_a
- All these options are correct if you asked to tick them
Ans: 1. Java is platform-independent
2. JVM is platform dependent
3. JVM converts byte code into machine-level code
- What is the output of the Relational operator?
Ans: Boolean (True or False)
- What are the key elements of programming?
Ans: 1. Good Analytical skills
2. Declarative knowledge
3. Imperative knowledge
4. Abstraction knowledge in programming
- What is the extension of java code files?
Ans: .java
- Which is not OOPS concept?
1. compilation
2. Polymorphism
3. Encapsulation
4. Inheritance
Ans: Compilation
- Which component is used to compile, debug, and execute java programs?
Ans: JDK
- What is the extension of compiled java programs?
Ans: .class

10. Which of these cannot be used for a variable name in java?

1. identifier & keyword
2. keyword
3. identifier
4. none

Ans: keyword

11. expression1? expression2: expression3

What will be returned?

Ans: Boolean

12. Which of these is a long data type literal?

1. 0x99fffa
2. 0x99ffL
3. 99671246

Ans: 0x99ffL

13. Which of these is the superclass of every class?

Ans: Object Class

14. Which keyword can be used to prevent the inheritance of a class?

Ans: Final

15. What is the correct way of using a for-each loop?

Ans: for (double element : myList){}

16. What are the correct options for JVM?

- Ans: 1. JVM is responsible to convert bytecode to machine code**
- 2. JVM is platform dependent and provides core java functions**

17. Strings in java are mutable. True or False?

Ans: False

18. What modifier can be used to prevent any method or attribute to be not visible to external classes?

Ans: private

19. What modifier can be used to restrict a method or attribute to be invisible outside its package?

Ans: Default (No Modifier)

20. If the package name containing more than one word is used, the word must be separated by _____

Ans: dot (.)

21. All the classes in a package can be imported simultaneously by using _____

Ans: * (Wildcard character)

22. Which is the correct syntax to create an array of objects?

Ans: int[] array = new int[10];

23. class A{

Final a;

System.out.println(a);

}

What is the output for the above code?

Ans: Error at line 2

24. class Box{ }
 class Solution{
 Box box[] = {b1, b2, b3, b4, b5};
 for(int i=0;i<box.length();i++);
 }

What will be the error?

Ans: we should use box.length

25. char ch = 127;
 ch++;
 System.out.println(ch+"="+ (int)ch);
What is the output?

Ans: garbage value = -128

26. String s[] = {"hibernate", "java", "object"};
 Arrays.sort(s);
 for(String k in s)
 System.out.println(k)

What will be the output?

Ans: hibernate java object

27. String str = "I love Java";
 System.out.println(str.length());
What is the output?

Ans: 11

28. static int a = 1
 Inc(){
 a++;
 System.out.print(a);
 }

Inc();

Inc();

What is the output?

Ans: 2 3

29. String[] s = {"10", "20", "30", "40"}
 for(String result : s){
 if(result.contains("30"))
 continue;
 System.out.println(result);
 }

What is the output?

Ans: 10

20

40

30. double d1 = 50;
 float d2 = 10;
 float d3 = d1/d2;
 System.out.println(d3);

What is the output?

Ans: Compilation error

31. byte b = 200;
System.out.println(b);

What is the output?

Ans: Compilation error

32. Solution t = new Solution();
boolean b = t instanceof Object;
System.out.println(b);

What is the output?

Ans: True

33. int var1 = 1;
if(var1)
System.out.println("Inside if condition");

What is the output?

Ans: Compilation error

34. var1;
if(var1==0)
System.out.println("Inside if condition");

What is the output?

Ans: Compilation error

MySQL

1. The count function in SQL returns the number of _____

Ans: Not NULL values

2. Which of the following is not a constraint in SQL?

Ans: NOT NULL

3. Choose the incorrect variable declaration from the below statements

Ans: v_text varchar2(10) = "Hello World";

4. NULL in PL/SQL can be assigned and it can be equated with anything including itself. True or False

Ans: False

5. PL/SQL question with global and local variables...

Ans: Error

6. How many types of indices are present in the SQL server?

Ans: 2

7. Which is the invalid command in SQL?

Ans: Fetch

8. One question from PL/SQL was the upward to lower flow in a loop is...

Ans: reverse

9. What is the purpose of TYPE and ROW TYPE?

Ans: TYPE provides datatype of a variable and ROW TYPE provides record type that represents an entire row of a table or view or columns selected in the cursor

10. The procedure can be called in how many ways?

Ans: 1. Using execute command

2. Calling the name of the procedure from other PL/SQL block

11. What is the clause we need to add in the function body return variable?

Ans: RETURN VARCHAR

12. Which of the following are the examples of named block?

Ans: 1. Procedure

2. Trigger

3. Function

13. The cursor should be declared in begin block in PL/SQL. True or False

Ans: False

14. Which of the following is not a cursor attribute?

Ans: None of the above

15. Employee

EId Name Designation

101 Arun Software Engineer

102 Kishore Sr. Software Engineer

103 Reshmi Software Engineer

104 Sanjay Project Manager

105 Madhav Sr. Software Engineer

What will be the result after executing the below set of queries?

DELETE FROM employee where designation like 'S%' UPDATE

employee SET designation = "Software Engineer";

SELECT count(*) from employee where designation like 'S%';

Ans: None

16. CREATE TABLE Students(ROLL_NO NUMBER(5) PRIMARY KEY,
NAME VARCHAR(50));

ALTER TABLE Students ADD PRIMARY KEY (ROLL_NO);

Ans: Table can have only one primary key

17. Table A

Id – 1, 2, 4, 8

Table B

Id – 1, 4, 5, null

What will be the output for the below query?

SELECT count(*) from table B where id not in (SELECT A.id from
table A LEFT JOIN table B on A.id = B.id)

Ans: 1

18. CREATE OR REPLACE function min_age

return number as result customer age%type;

BEGIN

SELECT min(age) into result from customer;

return result;

END;

Ans: DELETE from customer where age = min_age()

UPDATE customer set age = age+1 where age = min_age()

19. CREATE table couples(id char(2) primary key not null, first_name varchar2(50) not null, last_name varchar2(50) not null)
 INSERT into couples values('10', 'joe', 'johnson');
 DECLARE husband_id char;
 BEGIN SELECT id into husband_id from couples where first_name = 'joe' and last_name = 'johnson';
 INSERT into couples(id, first_name, last_name) values(husband_id+1, 'janeti', 'johnson');
 EXCEPTION when no data found then dbms_output.put_line('no rows found');
 when value_error then
 dbms_output.put_line('value error occurred');
 when others then
 dbms_output.put_line('exception');
 END;
Ans: Block executed successfully with no exceptions
20. What type of join in below statement?
 SELECT column name from table1 T1, table2 T2 where condition;
Ans: Self JOIN
21. How to increase the size of a column in SQL?
Ans: ALTER TABLE table_name MODIFY column_name datatype(new_size)
22. Write a SQL query used to search details based on the first character in a columns
Ans: SELECT * FROM table_name WHERE name like '(char)%';
23. What will happen if the below snippet executed?
 EXIT when(c1%rowcount>5) or (c1%notfound)
Ans: Terminate loop when row count is greater than 5 or when no data
24. Which are the types of conditional statements in PL/SQL?
**Ans: IF THEN END IF
 IF THEN ELSE END IF
 IF THEN ELSIF END IF**
25. Store A 300
 Store B 200
 Store C 100
 Store D NULL
 avg(sales) = ?
Ans: 200
26. What is the output of the below query?
 SELECT left('Welcome to PL/SQL', 3)
Ans: Wel
27. Write an SQL command to drop the column in specific table
Ans: ALTER TABLE table_name DROP column column_name

Python

1. `raw_input()` returns _____
Ans: String
2. Which method is used to delete an object created by initializing constructor?
Ans: Destructor
3. To read two characters from a file object in a file, we use _____
Ans: `infile.read(2)`
4. What can you put before and after a section to make all of the lines as a comment?
Ans: `'''`
5. Python programming can handle every error implicitly. True or False
Ans: True
6. Syntax error is also called as _____
Ans: Parsing error
7. What arithmetic operator can not be used with strings?
Ans: ``, `-`**
8. `print 'new'line'`
Ans: `newline`
9. Python is not suited for fast and memory-intensive tasks. True or False?
Ans: True
10. What are the immutable built-in types of Python?
Ans: numbers, strings, tuples
11. Enthought or rather EPD _____
Ans: An integrated development environment for Python
12. How many control statements does Python support?
Ans: 3
13. The `format` function returns _____
Ans: `Str`
14. _____ is not python built-in exception
Ans: Indent error
15. use of `sys.stdout.flush()` is _____
Ans: get that text on the screen quickly
16. suppose `i` is 5 and `j` is 5, `i+j` is same as of _____
Ans: `i.__add__(j)`
17. In the python, the below statement represents `x = a+5-b`
Ans: `None`
18. type of error in `'st'+1` is _____
Ans: type error
19. The `readlines()` returns _____
Ans: a list of lines
20. What is the difference between a class and an object in python?
Ans: Objects are created from classes
21. What is the output of the following code?

```

si = 'spamandeggs'
x = si.find('and')
print(x)

```

```
print(si[0:1],si[5:7])
```

Ans: ('s', 'nd')

22. What would be the output of the following statement?

```
print("%.2f"%123.444)
```

Ans: 123.44

23. What will be the output?

```
nums = set([1,1,2,3,3,3,4])
```

```
print len(nums)
```

Ans: 4

24. str1 = 'helloworld'

```
str1[::-1]
```

Ans: dlrowolleh

25. foo = {1:'1',2:'2',3:'3'}

```
foo = { }
```

```
print len(foo)
```

Ans: 0

26. print "abcd"[2:]

Ans: cd

27. example = "snow world"

```
print "%s"%example[4:7]
```

Ans: wo

28. def myfunction(x,y,z,a):

```
print x+y
```

```
nums = [1,2,3,4]
```

```
myfunction(*nums)
```

Ans: 3

29. print str(1) + str(2)

Ans: 12

30. names = ['Amir', 'Barry', 'Charles', 'Dao']

```
print names[-1][-1]
```

Ans: o

31. sets = {3,4,5,6}

```
sets.update([1,2,3])
```

```
print(sets)
```

What is the output from the above snippet?

Ans: {1,2,3,4,5,6}

32. What is the output of the below code snippet?

```
print({ } is { })
```

Ans: False

33. What is the output of the below code snippets

```
a = 5
```

```
b = 5
```

```
c = a+b
```

```
print(c == (a+b))
```

Ans: True

34. variable 'a' is defined as
a = 'gOOd moRning'
Select the statement which will convert the 'a' from 'gOOd moRning' to 'Good Morning'
Ans: a.title()
35. What is the output of the below code?
s = 'Welcome\$to\$python'
print(s.split('\$'))
Ans: ['Welcome', 'to', 'python']
36. myList = ['a', 'a', 'b', 'b', 'b', 'c', 'c', 'd', 'e']
myList.index('b')
What is the output?
Ans: 2
37. import math
print(math.floor(5.5))
What is the output?
Ans: 5
38. What is the output of the below code?
a = ('a', 'b', 'c', 'd', 'e', 'f', 'g', 'h')
x = slice(3,5)
print(a[x])
Ans: ('d', 'e')
39. In the below list
numbers = [1,2,3,4]
numbers.append([5,6,7,8])
print(len(numbers))
what is the output?
Ans: 5
40. What is the output for below code?
s = 'TCS'
r_str = s[::-1]
print(r_str)
Ans: SCT
41. What is the output of the below code?
math.sqrt(36)
Ans: 6.0
42. my_tuple = (1,5,3,9)
my_tuple.append((8,6,7))
print(len(my_tuple))
What is the output of the below code?
Ans: An exception is thrown
43. What is the output?
numberGames = { }
numberGames[(1,2,3)] = 8
numberGames[(4,2,1)] = 10
numberGames[(1,2)] = 12

```
sum = 0
for k in numberGames:
    sum += numberGames[k]
print len(numberGames)+sum
```

Ans: 33

44. What will be the output?

```
s = "\t\tWorld\n"
s.strip()
```

Ans: World

Unix

1. 'ls' command in Unix is used for _____
Ans: Listing the files in a directory
2. Which among the following is not a part of the Unix Operating System?
Ans: Libraries
3. In Unix, the Shell act as an interface between the user and _____
Ans: Kernal
4. Everything in Unix is _____
Ans: A file or a Process
5. Which command is used for changing directory in Unix?
Ans: cd
6. In Unix, File permissions are not set for _____
Ans: Devices
7. In Unix, how can you read the manual help pages about a command?
Ans: By using MAN Command
8. What is the most common text editor in Unix?
Ans: Visual Editor (vi)
9. You have created a shell script and want to run the script. What should you do before trying to run the script?
Ans: Update the executive permission of the script by using 'chmod' command
10. Which is a valid mode of operation is 'vi' editor?
Ans: Command mode
11. Which Command to compress a file in Unix?
Ans: Gzip, Bzip2, Zip
12. Which command is used to give the length of the longest line in a file in Unix?
Ans: wc -L Filename
13. Which command is used for pattern matching in Unix?
Ans: grep
14. NAME AGE AMOUNT TYPE
HERRA 25 6000 CSR
ABHI 26 4000 CSR
Which command will print name and type?
Ans: D for delimiter and F for field

15. What is the use of \$# in shell scripting?
Ans: It gives the count of the number of arguments passed into the shell script
16. Which AWK command will give you the average of the third column of the input file which has delimiter?
Ans: AWK 'BEGIN {FS=" "}; S'0}{S'S'\$2}END{print S/NR}' average.txt
17. What is true regarding pipe [|] symbol?
Ans: Pipe symbol used to combine two or more than two Unix Commands
18. How to copy two files into a new file in Unix?
Ans: cat file1file2>file3
19. To sort the records from large to a small numbers and print the largest number...
Ans: Option with Desc limit 1
20. grep TATA.* services \$

Ans: Which has TATA Services may contain anything like consultancy, conference, etc...
21. Which command is used to remove a folder which has files in Unix?
Ans: rm -Rf
22. grep -v java

Ans: Option which doesn't contain the java word in the line
23. Which Unix command is used to remove duplicates in a line?
Ans: sort -u
24. What is the output of the following command?
grep -o cat animal.txt
grep 'cat' animal.txt
Ans: cat cat
25. On update cascade, ensures what?
Ans: Data Integrity
26. How can you delete lines having 'this' from file?
Ans: sed/'this'/d file
27. String 'IIP' file case insensitive
Ans: grep .i 'IIP' file.txt
28. Pattern matching at the beginning of a file_____
Ans: ^pattern
29. How can you find Length of the longest line in a file
Ans: wc -L-<filename>
30. _____ displays all environment variables?
Ans: env

- 31.#!/Bin/Bash
if [\$# -NE 1]
then
echo "pass the input file"
else
sort \$1 > newfile
head -N1 \$1> newfile
What is the output for the above Unix code?
Ans: 1

User Interface (UI)

1. What is the syntax of the background image in CSS?
Ans: background-image
2. All HTML tags must have closing tags. True or False?
Ans: false
3. What is the tag used for the ordered list with a roman numbering?
Ans: <ol type = 'I'>
4. Which is not a CSS unit?
Options: em, ut, %, px
Ans: ut
5. p{color: green}
<p> xyz </p>
In what color, the paragraph is printed?
Ans: Green
6. How can you emphasize text in HTML?
**Ans: By using **
7. Which tag is not used to format a text in HTML?
Options: , <p>, , <i>
Ans: <p>
8. Which one of the following is an invalid field in HTML5?
Options: Day, Date, Datetime, Month
Ans: Day
9. Which of the following is an invalid escape sequence in JavaScript?
Options: /r, /b, /f, /e
Ans: /e
10. Suppose you have created a shell script and wants to run the script.
What should you do before running it?
Ans: Update the executive permissions of the script
11. Caption tag is used with _____
Ans: Image and Table
12. What is the position, text-align: justify?
Ans: Stretches the lines so that each line has equal width
13. a:link, a:visited{
background-color:red;
}
a:hover{

```
background-color:green;
}
```

Click here

Ans: Will create a link having background color red and on moving the pointer, background color will be green

14. What will be the output for the following javascript code?

```
var x = 100+5**3
```

Ans: 225 (According to operator precedence rule)

15. <p> top news </p>

```
<blockquote url:Hindunews.com></blockquote>
```

Ans: Today's news block quote displays

16. Which is not inline tag in html?

Options: <hr>,
, , <a>

Ans: <hr>

17. How array will be in javascript?

Ans: List form []

18. Which of the following is not a valid color declaration in HTML?

options: color:darkblue

color: #000ff

color:rgb(0,0,255)

color:blue

Ans: color:#000ff

19. <img url = "sky.jpg" width = "100" height="100" opacity = "0.25"

How the image sky.jpg looks like?

Ans: Display image as watermark

20. Appearance of <ins> tag?

Ans: underline

21. A link can be an image or any other HTML element. True or False?

Ans: True

22. <svg> used for _____

Ans: Drawing lines, graphics, etc...

23. is used for _____

Ans: To group elements for styling purposes

24. Which property is not applicable for a paragraph?

Options: float, border, margin, font-family

Ans: float

25. Which block of code will be executed?

1. p{<!-- comment

color:red;

}

2. p{/*comment*/

color:red;

}

3.p{//comment

color:red;

}

```
4. p{#comment  
color:red  
}
```

Ans: 2

26. Which of the below block is used to style Xplore <h1> tag? (<h1 class="Xplore">)

Options:

1. h1{....}
2. xplore..h1{.....}
3. .h1{.....}
4. h1.xplore{....}

Ans: 4

27. <p class="abc"></p>

```
<script>
```

```
var x;
```

```
document.getElementsByClassName("abc").innerHTML = x;
```

```
</script>
```

What is the output?

Ans: NaN

28. Javascript runs using ScriptEngine. True or False?

Ans: True

29. Which statement is correct in javascript?

Ans: True and false are non-numeric values

30. <p class="A"> ABC</p>

How to style ABC using CSS?

Ans: .A{color:red;}

31. Which is not CSS properties?

Ans: background-render

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