QUESTION BANK

Class XII
Subject :COMPUTER SCIENCE
Session 2020-21

Multiple Choice Questions

CH-1 REVISION TOUR OF CLASS XI

Q1 Which character is used in Python to make a single line comment?

    a. /
    b. //
    c. #
    d. !

Q2What do we use to define a block of code in Python language?

    a. Key
    b. Brackets
    c. Indentation
    d. None of these

Q3 Which of the following is not a keyword in Python language?

    a. val
    b. raise
    c. try
    d. with

Q4 Which of the following operators is the correct option for power(ab)?

    a. a ^ b
    b. a**b
    c. a ^ ^ b
    d. a ^ * b

Q5 Which of the following functions is a built-in function in python language?

a. val()
b. print()
c. Print()
d. None of these

Q6 Study the following function:

```
 import math
abs(math.sqrt(36))
```

What will be the output of this code?

a. Error
b. -6
c. 6
d. 6.0

Q7 What error will occur when you execute the following code?

```
MANGO = APPLE
```
a. NameError
b. SyntaxError
c. TypeError
d. ValueError

Q8 What happens when '2' == 2 is executed?

a. False
b. Ture
c. ValueError occurs
d. TypeError occurs

Q9 Study the following statement

```
z = {"x":0, "y":1}
```

Which of the following is the correct statement?

a. x dictionary z is created
b. x and y are the keys of dictionary z

c. 0 and 1 are the values of dictionary z

d. All of the above

Q10 Study the following program:

```
z = "xyz"
j = "j"
while j in z:
    print(j, end=" ")
```

Q11What will be the output of this statement?

a. xyz

b. No output

c. x y z

d. j j j j j j j..

CH-2 FUNCTIONS

Q1 Which of the following items are present in the function header?

A. function name

B. parameter list

C. return value

D. Both A and B

Q2 If return statement is not used inside the function, the function will return:

A. None

B. 0

C. Null

D. Arbitary value

Q3 Which one of the following is the correct way of calling a function?

A. function_name()

B. call function_name()

C. ret function_name()

D. function function_name()

Q4 Which of the following will print the pi value defined in math module?

A. print(pi)
B. print(math.pi)
C. from math import pi
     print(pi)
D. from math import pi
     print(math.pi)

Q5 Which operator is used in Python to import modules from packages?

A. .
B. *
C. ->
D. &

Q6What is a variable defined outside a function referred to as?

A. local variable
B. global variable
C. static Variable
D. automatic variable

Q7 What is the output of the following program?

```
print(chr(ord(chr(97))))
```

A. a
B. A
C. 97
D. erro

Q8 Which one of the following is incorrect?

A. The variables used inside function are called local variables.
B. The local variables of a particular function can be used inside other functions, but these cannot be used in global space
C. The variables used outside function are called global variables
D. In order to change the value of global variable inside function, keyword global is used.

Q9 Which of the following is not a type of argument in Python?

A. Keyword
B. Variable argument count
C. Positional
D. None of these

Q10 Which of the following would result in an error?

A. def function1(var1=2, var2):
     var3=var1+var2
      return var3
     function1(3)

B. def function1(var1, var2):
     var3=var1+var2
     return var3
     function1(var1=2,var2=3)

C. def function1(var1, var2):
     var3=var1+var2
     return var3
     function1(var2=2,var1=3)

D. def function1(var1, var2=5):
     var3=var1+var2
     return var3
     function1(2,3)

CH-3 FILE HANDLING

Q1 Which of the following statements correctly explain the function of tell() method?
A. tells the current position within the file.
B. indicates that the next read or write will occur at that many bytes from the

beginning of the file.
C. move the current file position to a different location.
D. it changes the file position only if allowed to do so else returns an error.

Q2Which of the following statements correctly explain the function of seek() method?
A. tell the current position within the file.
B. indicate that the next read or write occurs from that position in a file.
C. determine if you can move the file position or not.
D. move the current file position to a different location at a defined offset.

Q3Which of the following statements correctly define pickling in python?
A. It is a process to convert a Python object into a byte stream.
B. It is a process to convert a byte stream to Python object.
C. It is done using two methods dump and load.
D. Serialization is an alternate name for pickling.

Q4What is the correct syntax of open() function?
A. file = open(file_name [, access_mode][, buffering])
B. file object = open(file_name [, access_mode][, buffering])
C. file object = open(file_name)
D. None of the above

Q5Which of the following statements are correct regarding the file access modes?
A. 'r+' opens a file for both reading and writing. File object points to its beginning.
B. 'w+' opens a file for both writing and reading. Overwrites the existing file if it exists and creates a new one if it does not exist.
C. 'wb' opens a file for reading and writing in binary format. Overwrites the file if it exists and creates a new one if it does not exist.
D. 'a' opens a file for appending. The file pointer is at the end of the file if the file exists.

Q6Which of the following commands can be used to read "n" number of characters from a file using the file object <file>?
A. file.read(n)
B. n = file.read()
C. file.readline(n)
D. file.readlines()

Q7 Which of the following commands can be used to read the entire contents of a file as a string using the file object <tmpfile>?
A. tmpfile.read(n)
B. tmpfile.read()
C. tmpfile.readline()
D. tmpfile.readlines()

Q8 Which of the following command is used to open a file "c:\temp.txt" for writing in binary format only?
A. outfile = open("c:\temp.txt", "w")
B. outfile = open("c:\\temp.txt", "wb")
C. outfile = open("c:\temp.txt", "w+")
D. outfile = open("c:\\temp.txt", "wb+")

Q9The command used to skip a row in a CSV file is
next()
skip()
omit()
bounce()

Q10Making some changes in the data of the existing file or adding more data is called
Appending
Editing
Alteration
Modification

Fill in the blanks

1. A collection of bytes stored in computer's secondary memory is known as _____.
2. _____ is a process of storing data into files and allows to performs various tasks such as read, write, append, search and modify in files.
3. The transfer of data from program to memory (RAM) to permanent storage device (hard disk) and vice versa are known as _____.
4. A _____ is a file that stores data in a specific format on secondary storage devices.
5. In _____ files each line terminates with EOL or '\n' or carriage return, or '\r\n'.
6. To open file data.txt for reading, open function will be written as f = _____.
7. To open file data.txt for writing, open function will be written as f = _____.
8. In f=open("data.txt","w"), f refers to _____.
9. To close file in a program _____ function is used.
10. A _____ function reads first 15 characters of file.
11. A _____ function reads most n bytes and returns the read bytes in the form of a string.
12. A _____ function reads all lines from the file.
13. A _____ function requires a string (File_Path) as parameter to write in the file.
14. A _____ function requires a sequence of lines, lists, tuples etc. to write data into file.

15. To add data into an existing file _____ mode is used.
16. A _____ function is used to write contents of buffer onto storage.
17. A text file stores data in _____ or _____ form.
18. A _____ is plain text file which contains list of data in tabular form.
19. You can create a file using _____ function in python.
20. A _____ symbol is used to perform reading as well as writing on files in python.

Answers:

1. File
2. File Handling
3. I/O Operations
4. Data file
5. Text File
6. open("data.txt","r")
7. open("data.txt","w")
8. File handle or File Object
9. close
10. read(15)
11. readline()
12. readlines()
13. write()
14. writelines()
15. append
16. flush()
17. ASCII, UNICODE
18. CSV
19. open()
20. +

CSV FILE Questions

1. Expand: **CSV**
   - Comma Separated Value
2. Which of the following module is required to import to work with CSV file?
1. File
2. **CSV**
3. pandas
4. numpy

Which of the following is not a function of csv module?
0. **readline()**
1. writerow()
2. reader()
3. writer()

The writer() function has how many mandatory parameters?
0. **1**
1. 2
2. 3
3. 4

Name the function which used to write a row at a time into CSV file.
- writerow()

Which of the following parameter needs to be added with open function to avoid blank row followed file each row in CSV file?
0. qoutechar
1. quoting
2. **newline**
3. skiprow

Anshuman wants to separate the values by a $ sign. Suggest to him a pair of function and parameter to use it.
0. open,quotechar
1. writer,quotechar
2. open,delimiter
3. **writer, delimiter**

Which of the following is tasks cannot be done or difficult with CSV module?
0. Data in tabular form
1. **Uniqueness of data**
2. Saving data permanently
3. All of these

Ch-5 Data Structure

Q1what is a variable defined outside all the function referred to as?
A. A static variable
B. A global variable
C. A local variable
D. An automatic variable

Q2Stacks have LIFO ordering
A. TRUE

B. FALSE

Q3. LIFO stands for
   A. List of Outputs
   B. Last in First Out
   C. First in Last Out
   D. None of them

Q4 Act of adding values into a stack is called
   A. Popping
   B. Polling
   C. Pushing
   D. None

Q5If the elements "A", "B", "C" and "D" are placed in a stack and are deleted one at a time, in what order will they be removed?
   A. ABCD
   B. DCBA
   C. DCAB
   D. ABDC

Q6 Consider the following operation performed on a stack of size 5.

Push(1);
Pop();
Push(2);
Push(3);
Pop();
Push(4);
Pop();
Pop();
Push(5);

After the completion of all operation, the no of element present on stack are
   A. 1
   B. 2
   C. 3
   D. 4

Q7 Process of Removing element from the stack is called as _____.
   A. Pop
   B. Push
   C. Create
   D. Postfix

Q8In the stack, If user try to remove element from the empty stack then it called as
_____.
   A. Overflow of Stack
   B. Empty Collection
   C. Underflow of Stack
   D. Garbage Collection

Ch-6 SQL Queries

Q1Which data manipulation command is used to combines the records from one or more tables?

   A.SELECT
   B.PROJECT
   C.JOIN
   D.PRODUCT

Q2Which operator is used to compare a value to a specified list of values?

   A.BETWEEN
   B.ANY
   C.IN
   D.ALL

Q3The command used to delete a particular column in a relation is _____

   A.UPDATE TABLE
   B.TRUNCATE COLUMN
   C.ALTER , DROP
   D.DELETE COLUMN

Q4The database language that allows us to access data in a database is called :

   A.DCL
   B.DML
   C.DDL
   D.None Of Above

Q5 Which of the following is a comparison operator in SQL?

   A.Double equal sign (==)
   B.LIKE
   C.BETWEEN
   D.Single equal sign (=)

Q6 Which of the following is a legal expression in SQL?
   A. SELECT NULL FROM SALES;

B. SELECT NAME FROM SALES;
C. SELECT * FROM SALES WHEN PRICE = NULL;
D. SELECT # FROM SALES;

Q7 The COUNT function in SQL returns the number of _____

A.Values
B.Distinct values
C.Group By
D.Columns

Q8Which statement in SQL allows us to change the definition of a table is?

A.ALTER
B.UPDATE
C.CREATE
D.SELECT

Q9 The _____ clause allows us to select only those rows in the result relation of the _____ clause that satisfy a specified predicate.

a) Where, from

b) From, select

c) Select, from

d) From, where

Q10 SELECT * FROM employee WHERE salary>10000 AND dept_id=101;
Which of the following fields are displayed as output?

a) Salary, dept_id
b) Employee
c) Salary
d) All the field of employee relation

CH-7 PYTHON AND SQL CONNECTIVITY

Q1 **connect() function in mysql.connector is used for ?**

1.To connect the database

2.To open the database

3.To create a database

4.All of the above

Q2Correct way to run the query in Python mysql.connector is :

1. mysql.connector.execute.query

2. mysql.connector.execute(query)

3. mysql.connector.run.execute(query)

4.None of the above

Q3 For what purpose mysql.connector is used ?

1.Front end

2.Back end

3.CLI

4.GUI

Q4 Which keyword we use to fetch the data from the table in database ?

1.fetch

2.select

3.raw

4.All of the above

Q5 By using mysql.connector , we can store our data on

1.localhost

2.Global

3.Server

4.None of the above

Q6 What the following query does ?, select count(*) from table

1.It return all rows data

2.It return number of rows in table

3.It return number of columns in table

4.It will give an error

Q7 Which keyword we use to fetch the data from the table in database ?

1.fetch

2.select

3.raw

4.All of the above

Q8 Which of the correct way to install the mysql.connector in python ?

1.install mysql.connector

2.pip install mysql.connector

3.pip mysql.connector install python

4.None of the above

Q9 In a LIKE clause, you can ask for any 6 letter value by writing:
    A. LIKE _____ (that's six underscore characters)
    B. LIKE .{6}
    C. LIKE ??????

D. LIKE ^.{6}$
E. LIKE …… (that's six dots)

10 Which of these commands will delete a table called XXX if you have appropriate authority?
   A. DROP XXX
   B. DELETE XXX WHERE confirm = "YES"
   C. DROP XXX WHERE confirm = "YES"
   D. DROP TABLE XXX

Ch-8 NETWORKING

Q1 Which of the following is not an unit for data transfer rate? **All India 2010**

1. MBPS
2. KBPS
3. SBPS
4. GBPS

Q2 What will be the best possible connectivity out of the following, you will suggest to connect the new set up of offices in Bengalore with its London based office.

1. Satellite Link
2. Infrared
3. Ethernet

Q3 Which type of topology is best suited for large businesses which must carefully control and coordinate the operation of distributed branch outlets?

a. Ring

b. Local area

c. Hierarchical

d. Star

Q4 A collection of hyperlinked documents on the internet forms the ?.?

a. World Wide Web (WWW)

b. E-mail system

c. Mailing list

d. Hypertext markup language

Q5 Which one of the following would breach the integrity of a system?

a. Looking the room to prevent theft

b. Full access rights for all users

c. Fitting the system with an anti-theft device

d. Protecting the device against willful or accidental damage

Q6 Bluetooth is an example of _____.

A. personal area network

B. local area network

C. virtual private network

D. wide area network

Q7 Select the correct cable that transport signals in the form of light

A. Twisted Pair Cable

B. Fiber Optic Cable

C. Coaxial Cable

D. Shielded Twisted Pair Cable

Q8 The first operational computer network in the world was the _____ with the united states Department of defence.

A. ERNET

B SKYNET

C. ARPANET

D.NETPA

Q9 A device that regenerates (amplifies) the received signal and re-transmits it to its destination.

(i) Switch

(ii) Repeater

iii) bridge

iv) gateway

Q10 Suggest the most suitable (very high speed) service to provide data connectivity

between Admission Building located in Delhi and the campus located in Parampur from the

following options:

(a) Telephone line
(b) Fixed line dial-up connection
(c) Co-axial cable network
(d) GSM
(e) Leased line
(f) Satellite connection

Q11Janish Khanna used a pen drive to copy files from his friend's laptop to his office computer.

Soon his computer started abnormal functioning. Sometimes it would restart by itself and

sometimes it would stop different applications running on it. Which of the following options out of

(i) to (iv), would have caused the malfunctioning of the computer? Justify

the reason for your chosen option:

1. Computer Virus
2. Spam Mail
3. Computer Bacteria
4. Trojan Horse

Q12 Raveena Sen is an IT expert and a freelancer. She recently used her skills to access the

Admin password for the network server of Super Dooper Technology Ltd. and provided

confidential data of the organisation to its CEO, informing him about the vulnerability of their

network security. Out of the following options (i) to (iv), which one most appropriately defines

Ms. Sen?

Justify the reason for your chosen option:

1. Hacker
2. Cracker

3. Operator
4. Network Admin