# SAMPLE PAPER 9



A Highly Simulated Practice Questions Paper for CBSE **Class XII** (Term I) Examination

### Instructions

- 1. This question paper is divided into three sections.
- 2. Section A contains 25 questions (1-25). Attempt any 20 questions.
- 3. Section B contains 24 questions (26-49). Attempt any 20 questions.
- 4. Section C contains 6 case study based questions (50-55). Attempt any 5 questions.
- 5. Each question carries 0.77 mark.
- 6. There is **no** negative marking.

Roll No.
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Maximum Marks : 35 Time allowed : 90 min

## Section A

*This section consists of 25 questions (1 to 25). Attempt any 20 questions from this section. Choose the best possible option.* 

1.	What is the maximum length of an identifier?							
	(a) 56	(b) 256	(c) 128	(d) Any length				
2.	Which of the following is not a bitwise operator?							
	(a) &	(b) ^	(c) !	(d) /				
3.	What is the output of a=3+float(8)/int(3.0 print(a)	0						
	(a) 2.66	(b) 5.66	(c) 3.66	(d) Error				
4.	What is the output of following code? list1=list() print(list1)							
	(a) ()	(b) (,)	(c) []	(d) Error				
5.			<pre>he following statement (c) list1.append(x)</pre>					
6.	Which of the followin (a) round() (c) round (53.7345, 3	ng code does not conta 3, 2)	<pre>hin any error? (b) round (53.7) (d) round (3454.2, 1, </pre>	1)				

	Correct syntax of (a) file.readlines		(b) file.readlines	۲]ء		
	(c) file.readlines			(d) readlines(file)		
8.	Which function is (a) readline() (c) readstatement()	used to read single	line from file? (b) readlines() (d) readfullline()	(b) readlines()		
9.	file?	0	r both writing and read			
	(a) wb+	(b) w	(c) wb	(d) w+		
10.	<ul><li>(a) The namespace</li><li>(b) This form of im</li><li>(c) The namespace</li></ul>	of imported module l port prevents name c of imported module l	'import modulename" f becomes part of importin lash. becomes available to imp d as : modulename.ident	g module. orting module.		
11.	What will be the all(0, 6, 3.2) (a) True	output of the followi	ng Python function? (c) Error	(d) 0		
12.			e passed to a function in (c) Zero or more			
13.	If return statemer (a) None (c) Null	nt is not used inside t	(b) 0	unction, the function will return (b) 0 (d) Arbitrary value		
14.	are the arg (a) Required argur (c) Default argume	nents	function in correct posit (b) Keyword argur (d) Variable-length	nents		
15.	What is the outpu Num=2+3-1*3 (a) 12	(b) 2	(c) 4	(d) 3		
16.	Choose the correct (a) for in range( (c) for i in range	50):	to be repeated 50 times (b) for i in range (d) for i in range	e(50):		
17.	In, we put (a) unpacking	values together into (b) packing	a new tuple. (c) replication	(d) slicing		
18.	If str1="Python P (a) thon	rogram", then what i (b) toPr	is the output of print(str (c) tnrr	r1[2:12:3])? (d) trrm		
19.	Which of the follo (a) Argument	owing is a value pass (b) Parameter	ed to the function durir (c) Keyword	ng the function call? (d) Statement		
	() 8					

What is the output? val='8'+2 print(val)			
(a) 82	(b) 88	(c) 22	(d) Error
<ul><li>(a) Leaving out a keyw</li><li>(b) Division by zero</li><li>(c) Using the wrong va</li></ul>	vord ariable name		
a, b =12, 10 c=a//b+4*2 d=c-10 print(d)			(d) 2
(d) 1	(D) = 1	$(\mathbf{C})$ 0	(u) 2
(a) Null statement	-	in which actions are e (b) Control statement (d) Simple statement	xecuted?
-		(b) [10, 2, 5, 4, 7, 9, 8] (d) Error	
	<pre>print(val) (a) 82 Which of the followin (a) Leaving out a keyw (b) Division by zero (c) Using the wrong va (d) Incorrect indentation What will be the outpla, b =12, 10 c=a//b+4*2 d=c-10 print(d) (a) 1 Which type of statement (c) Compound statement (c) Compound statement list1=[2, 5, 4, 7, 9 list2=list1+10 print(list2) (a) [2, 5, 4, 7, 9, 8, 10]</pre>	<pre>val='8'+2 print(val) (a) 82 (b) 88 Which of the following is a logical error? (a) Leaving out a keyword (b) Division by zero (c) Using the wrong variable name (d) Incorrect indentation What will be the output of following code? a, b =12, 10 c=a//b+4*2 d=c-10 print(d) (a) 1 (b) -1 Which type of statement specifies the order (a) Null statement (c) Compound statement What will be the output? list1=[2, 5, 4, 7, 9, 8] list2=list1+10 print(list2) (a) [2, 5, 4, 7, 9, 8, 10]</pre>	<pre>val='8'+2 print(val) (a) 82 (b) 88 (c) 22 Which of the following is a logical error? (a) Leaving out a keyword (b) Division by zero (c) Using the wrong variable name (d) Incorrect indentation What will be the output of following code? a. b =12. 10 c=a//b+4*2 d=c-10 print(d) (a) 1 (b) -1 (c) 0 Which type of statement specifies the order in which actions are e (a) Null statement (b) Control statement (c) Compound statement (d) Simple statement What will be the output? list1=[2. 5. 4. 7. 9. 8] list2=list1+10 print(list2) (a) [2, 5, 4, 7, 9, 8, 10] (b) [10, 2, 5, 4, 7, 9, 8]</pre>

# Section **B**

This section consists of 24 questions (26 to 49). Attempt any 20 questions.

26. What is the output of following code? tup1=(3, 2, 5, 9) tup2=(3, 8, 7) t=tup1\*tup2 print(t) (a) (3, 2, 5, 9, 3, 8, 7) (b) (3, 8, 7, 3, 2, 5, 9) (c) (3, 2, 3, 8, 7, 5, 9) (d) Error

**27.** What will be the output of following code?

def Func(x): print(x+2) x = 4 x = -5Func(37) (a) 37 (b) 41 (c) 39 (d) 32

# **28.** Evaluate the following expression and identify the correct answer. A = 5\*5 + 4/(5+15-9)/(2+10)

(a) 36 (b) 46 (c) 47 (d) 56

```
29. What is the output of following code?
```

a = 5def MyFunc() : global a a = a + 3MyFunc() print(a) (a) 3 (b) 8 (c) 5 (d) Error

- **30.** What is the output of the following code? a = 70while(a>50): print(a) a = a - 30(b) 30 (c) 50 (a) 40
- **31.** Suppose the content of file "story.txt" is

```
Honesty is the best policy.
```

```
What is the output of following code?
myfile=open ("story.txt", 'r')
s=myfile.read(12)
print(s)
myfile.close()
(a) Honesty is
                                             (b) Honesty is the
(c) Honesty is t
                                             (d) Error
```

**32.** What will be the output of the following Python code?

(d) 70

a=(i for i in	range(5))		
for i in a:			
print(i)			
for i in a:			
print(i)			
(a) 0	(b) 1	(c) 2	(d) 1
1	2	3	2
2	3	4	3
3	4	5	4
4			5
			(

**33.** What will be the output of the following Python code?

```
def myFunc(a):
 a=['123', 'abc']
 return id(a)
va]=['abc','123']
print(id(val)= = myFunc(val))
(a) True
                                           (b) False
(c) Flag
                                           (d) Error
```

**34.** What is the output of the following Python code? val=10 def test(a=2, b=val): print(a,b) va1=23 test(5) (a) 5 10 (b) 10 5 (c) 23 5 (d) 23 15 **35.** What will be the output of the following Python code? def myFunc(a, b): if a > b: return a elif a = = b: return 'Equal numbers' else: return b print(myFunc(2, 8)) (a) 8 (b) 2 (c) Equal numbers (d) Error **36.** What is the output of the following Python code? def test(i=3, j=5): i = i + jj = j + 1print(i, j) test(j = 4, i = 5)(d) 95 (a) 3 5 (b) 8 8 (c) 5 4 **37.** What will be the output of the following Python code? va]=12345 for i in val : print(i) (a) 1 2 3 4 5 (b) 12345 (c) 1 3 5 (d) Error **38.** What is the output of following code? a={11 : "Hindi", 12 : "English", 13 : "Science"} for i, j in a: print(i, j) (a) 11 12 13 (b) Hindi English Science (c) 11 Hindi 12 English 13 Science (d) Error **39.** Consider a tuple tup1=(3, 7, 9, 6, 2) on a binary file "story.bin": import pickle tup1=(3, 7, 9, 6, 2) myfile=open ("story.bin", 'wb') pickle. # Statement 1 myfile.close() Identify the missing code in Statement 1. (a) dump(myfile,tup1) (b) dump(tup1,myfile) (c) write(tup1,myfile) (d) load(myfile,tup1)

**40.** Suppose the content of file "IMP.TXT" is

Pinaky has gone to his friend's house. His friend's name is Ravya. Her house is 12 km from Pinaky's house.

```
What is the output of following code?
```

```
def test():
      f=open("IMP.TXT")
      e=0
      u=0
      while True:
         l=f.readline()
         if not 1:
            break
         for i in 1:
            if(i=='E' or i=='e'):
               e=e+1
            elif(i=='U' or i=='u'):
               u=u+1
    print(e)
    print(u)
    f.close()
    (a) 5
                                                (b) 7
       3
                                                   3
    (c) 3
                                                (d) 5
       3
                                                   5
41. What is the output of following code?
    import random
    X = [100, 75, 10, 125]
    Go = random.randint (0, 3)
    for i in range (Go):
            print (X[i], "$$")
     (a) 100$$75$$10$$
                                                (b) 75$$10$$125$$
     (c) 75$$10$$
                                                (d) 10$$125$$100
```

```
42. What is the output of following code?
```

```
def Findoutput ():
  L = "earn"
  Χ = ""
  L1 = []
  count = 1
  for i in L :
     if i in ['a', 'e', 'i', 'o', 'u']:
        X = X + i.swapcase ()
     else:
        if (count% 2 ! = 0) :
           X = X + str (len (L [: count]))
        else:
```

X = X + icount = count + 1print (X) Findoutput () (a) eA3N (b) EA3n (c) EA3N (d) Ea3n **43.** What is the output of following code? 11=[1, 2, 8, 9, 5] for i in range (1, 5): ]1[i-1] = ]1[i] for i in range(0, 5): print(]1[i], end="") (a) 5 5 1 2 8 (b) 51289 (c) 2 8 9 5 1 (d) 2 8 9 5 5 **44.** What is the output of following code? def Func(): i=11 while i>1: if(i%2==0) : a=i%2 i=i-1 else: i=i\_3 a=i print(a\*\*3) (a) 512 (b) 512 (c) 512 (d) Error 64 64 64 64 8 64 8 0 8 0 **45.** Suppose the content of file "story.txt" is The test of my life What is the output of following code? f=open("story.txt") i=f.read() print(len(i)) f.close() (a) 20 (b) 19 (c) 15 (d) 21 **46.** Suppose the content of file "exam.txt" is Positive attitude is the key to solve many of the problem which you face in your life. What is the output of following code? myfile=open("exam.txt", "r")

myfile=open("exam.txt", i=myfile.read() j=i.count('the')

	print(j) myfile.close() (a)3	(b) 2	(c) None	(d) Error
47.	<pre>What is the output o list1=['PQR', 'XYZ' for i in list1:     i.lower() print(list1) (a) ['pqr', 'xyz']</pre>	]	(c) [None, None]	(d) Error
48.	<pre>Identify the output o list1=[23, 45, 47, L=list1.pop(72) print(L) (a) 72</pre>	0	(c) None	(d) Error
49.	What is the output o i = 2 j = 5 value = 5 + 4 * 2 + print(value) (a) 45	f following code?	(c) 50	(d) Error

## Section C

(Case Study Based Questions)

*This section consists of 6 questions (50 to 55). Attempt any 5 questions.* 

Below is a program to delete the line having word (passed as argument). Answer the questions that follow to execute the program successfully.

```
# Statement 1
import
def filedel(word) :
  file1 = open("Python.txt "," ____") # Statement 2
  nfile = open("algo.txt", "w")
  while True :
     line = file1.____
                                    # Statement 3
     if not line :
       break
     else :
       if word in line :
                                      # Statement 4
        else :
          print(line)
         nfile. ____ (line)
                                       # Statement 5
     file1.close()
     _____. close()
                                       # Statement 6
filedel('write')
```

50.	Choose the correct option to fill up the blank in line marked as Statement 1.					
	(a) csv	(b) bin	(c) os	(d) python		
51.	In which mode, prog (a) w (c) r+	ram should open the	file to delete the line (b) r (d) a+	in statement 2?		
52.	Choose the correct op (a) read() (c) readlines()	ption to fill up the bla	nk in line marked as ( (b) read(n) (d) readline()	Statement 3.		
53.	Identify the missing o (a) True (c) Pass	code for blank space i	n line marked as Stat (b) Flag (d) False	ement 4.		
54.	Choose the correct op (a) read (c) writelines	ption to fill up the bla	nk in line marked as ( (b) write (d) writeline	Statement 5.		
55.	Choose the correct op (a) file 1 (c) nfile	ption to fill up the bla	nk in line marked as ( (b) file (d) None	Statement 6.		

#### Answers

<b>1.</b> (d)	<b>2.</b> (c)	<b>3.</b> (b)	<b>4.</b> (c)	5. (c)	<b>6.</b> (b)	<b>7.</b> ( <i>a</i> )	<b>8.</b> (a)	<b>9.</b> (a)	<b>10.</b> (a)
<b>11.</b> (c)	<b>12.</b> (c)	<b>13.</b> (a)	<b>14.</b> (a)	<b>15.</b> (b)	<b>16.</b> (c)	<b>17.</b> (b)	<b>18.</b> (c)	<b>19.</b> (a)	<b>20.</b> (c)
<b>21.</b> (d)	<b>22.</b> (c)	<b>23.</b> (b)	<b>24.</b> (b)	<b>25.</b> ( <i>d</i> )	<b>26.</b> (d)	27. (c)	<b>28.</b> (b)	<b>29.</b> (c)	<b>30.</b> ( <i>d</i> )
<b>31.</b> (c)	<b>32.</b> ( <i>a</i> )	<b>33.</b> (b)	<b>34.</b> (a)	<b>35.</b> (a)	<b>36.</b> ( <i>d</i> )	<b>37.</b> ( <i>d</i> )	<b>38.</b> (d)	<b>39.</b> (b)	<b>40.</b> (b)
<b>41.</b> (a)	<b>42.</b> (b)	<b>43.</b> (d)	<b>44.</b> (a)	<b>45.</b> (b)	<b>46.</b> (b)	<b>47.</b> (b)	<b>48.</b> (d)	<b>49.</b> (a)	<b>50.</b> (c)
<b>51.</b> (b)	<b>52.</b> ( <i>d</i> )	<b>53.</b> (c)	<b>54.</b> (b)	55. (c)					

# SOLUTIONS

- Identifiers are used to identify a variable, function or other entities in a program. It can be of any length.
- Bitwise operators work on bits and perform bit-by-bit operation. These operators are &, ^ and /.
- **3. Output** a=3+2.66 =5.66
- **4.** There is no element in () that means it is an empty list. Empty list is represented by [].
- **5.** append(x) is used to add an element to the list at end.
- **6.** round (53.7) does not contain any error, as it will round the number which has passed as parameter.
- readlines () method will return a list of strings,each separated by '\n'.

Syntax fileHandle.readlines()

- 8. The readline () function reads a single line from the file fh = open("filename", "r") content=fh.readline().
- **9.** wb+ opens a file for both writing and reading in binary format. Overwrites the existing file if the file exists. If the file does not exist, creates a new file for reading and writing.
- **10.** In the "import modulename" form of import, the namespace of imported module becomes available to, but not part of the importing module.
- **11.** The function all() returns 'True' if any one or more of the elements of the iterable are non-zero. In the given case, the values are not iterable, hence an error is thrown.
- 12. Zero or more keyword arguments can be passed to a function in a single function call. Zero keyword arguments may be passed if all the arguments have default values.

- **13.** If return statement is not used inside the function, the function will return None.
- **14.** Required arguments are the arguments passed to a function in correct positional order. Here, the number of arguments in the function call should match exactly with the function definition.
- **15.** Num =  $2 + 3 1^*3$

$$=2+3-3=5-3=2$$

16. range () is used to generate a sequence of numbers overtime. for statement encloses one or more statements that form a body of the loop, the statement in the loop repeat continuously a certain number of times.Syntax

for variable in range (start,stop,step) :

- **17.** In packing, we put values together into a new tuple while in unpacking we extract those values into a single variable.
- **18.** Strings are also provide slice steps which used to extract characters from string that are not consecutive.
- **19.** An argument is a value passed to the function during the function call which is received for corresponding parameter defined in function header.
- **20.** remove() is used to remove the existing file. This method does not return any value.

Syntax os.remove (filename)

- **21.** It will give TypeError because integer and string cannot be concatenate.
- **22.** Logical errors occur when the program does not give any error but still gives an incorrect output. These errors occur due to mistakes of the programmer.

Using the wrong variable name is an example of logical error.

23. c = 12 / /10 + 4 \* 2 = 1 + 4 \* 2 = 1 + 8 c = 9 d = 9 - 10 = - 1 prints- 1

- **24.** Control statement specifies the order in which actions are executed.
- **25.** It will give an error because operator cannot add list with other type object as number or string.
- **26.** This code gives TypeError because cannot multiply sequence by non-int of type "tuple".
- **27.** The value passed to the function Func() is 37. This value is incremented by 2 and then printed.

**28.** A = 
$$5*5 + 4//5 + 15 - 9//2 + 10$$

$$= 25 + 4 / /5 + 15 - 9 / /2 + 10$$
  
= 25 + 0 + 15 - 9 / /2 + 10  
= 25 + 0 + 15 - 4 + 10  
= 25 + 15 - 4 + 10  
= 40 - 4 + 10  
= 36 + 10 = 46

- **29.** Since 'a' has been declared a global variable, it can be modified very easily within the function.
- 31. read() returns a string containing all
   characters in a file.
   Syntax fileHandle.read()
- **32.** We can loop over a generator object only once.
- **33.** A new object is created in the function.
- **34.** At the time of leader processing, the value of 'val' is 10. It is not modified later. The value passed to the function test is 5. Hence, the output of the code is 5 10.
- **35.** The function returns the maximum of the parameters, in this case the numbers supplied to the function. It uses a simple if..else statement to find the greater value and then returns that value.

36. The values given during function call is taken into consideration, i.e. i = 5 and j = 4.i = 5 + 4 = 9

$$i = 4 + 1 = 5$$

So, output is 95.

- **37.** Objects of type int are not iterable.
- **38.** It will give error because objects of type int are not iterable.
- **39.** dump() is used to write object to a file before use the dump() method, you have to import pickle module.

Syntax pickle. dump(object\_to\_pickle,

fileobject)

- **40.** This program opens a file "IMP.TXT" and read the content word-for-word. It counts and display the occurrence of alphabet E and U (including small cases).
- **41.** It will read the element of list and print them with random module.
- **42.** It takes string as "earn" and iterate the characters of given string. It apply some condition and print them.
- **43.** The elements having indexes number from 1 to 4 are shifted forward by one index due to the first for loop and the item of index four is printed again because of the second for loop.
- **44. Iteration 1** while (11 > 1) : true

```
if (11\%2 = = 0) false
                 else
                    i = 11 - 3 = 8
                    8 = 6
                 prints 512
Iteration 2 while (8 > 1) : true
                 if (8 \% 2 = = 0) true
                       a = 8\% 2 = 4
                       i = 8 - 1 = 7
                 prints 64
Iteration 3 while (7 > 1) : true
                 if (7\%2 = = 0) false
                 else
                       i = 7 - 3 = 4
                       a = 4
                 prints 64
Iteration 4 while (4 > 1 ) : true
                 if (4\% \ 2 = = 0) true
                       a = 4\%2 = 2
                       i = 4 - 1 = 3
                 prints 8
```

```
Iteration 5 while (3 > 1): true

if (3%2 = = 0) false

else

i = 3 - 3 = 0

a = 0

prints 0

So, output is

512

64

64

8

0
```

- **45.** File 'story.txt' will be open in read mode by default and variable i store the content of file character-by-character. len() method is used to find the length or number of bytes.
- **46.** This code opens a file "exam. txt" and read the data and count the 'the' word with count() and assigned its value to j.
- **47.** The function lower() does not modify a string in place, it returns a new string which is not being stored anywhere.
- **48.** In pop(), parenthesis put index number instead of element. But in given list, maximum index number is 4 then, 72 is out of index range.

```
49. value = 5 + 4 * 2 + 2 * * 5
= 5 + 4 * 2 + 32
= 5 + 8 + 32
= 13 + 32
= 45
```

- **50.** os module provides a unified interface to a number of operating system methods.
- **51.** r mode opens a file for reading only. The file pointer is placed at the beginning of the file.
- **52.** readline() will read from file line-by-line. For readline(), a line is terminated by '\n' or end of line.
- **53.** When if condition becomes true it will pass the value.
- **54.** write() takes a string and writes it into the file. This method does not add a new line character '\n' to the end of the string.
- 55. nfile is a file object and nfile.close() is used to close the file 'algo.txt'. It is important to close the file as soon as you have finished your work with it. Opened file is closed by calling the close() method of its file objects.