

D.A.V. GROUP OF SCHOOLS, CHENNAI & RANIPET COMMON TERM - I EXAMINATION - 2021-2022 COMPUTER SCIENCE

Time: 90 Minutes Max. Marks: 35

Class :

Date : 28.10.2021

General Instructions:

• The question paper is divided into 3 Sections - A, B and C.

Section A, consists of 25 Questions (1-25). Attempt any 20 questions
 Section B.

.. Section B, consists of 24 Questions (26-49). Attempt any 20 questions. Section C, consists of 6 case study based Questions (50-55). Attempt any 5

questions.

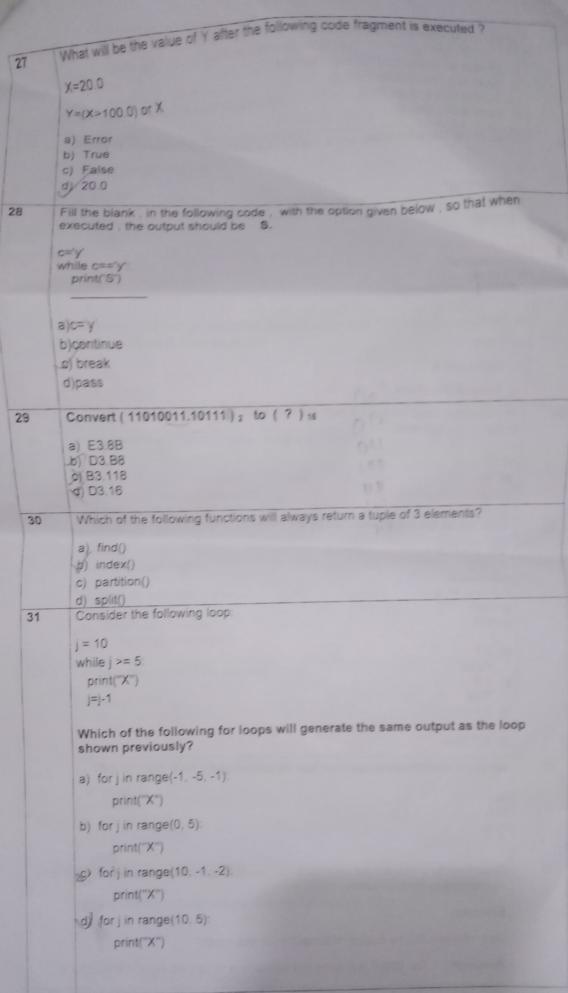
All questions carry equal marks.

Q.N.	Section-A
	This section consists of 25 Questions (1 to 25). Attempt any 20
	questions from this section. Choose the best possible option.
1	Which of the following are valid identifiers?
	a) my name
	b) myname
	c) 2myname
	d) my-name
2	Which symbol denotes the python prompt?
	a) \$
1	(b)/#
	(E) >>>
1	d) // Pick out the correct output for the following code from the options given below:
3	Pick out the correct output for the following code from the options given below.
	for i in range(-12,-1,3):
	print(i,end='#')
	if i%6==0:
	print(i,end='@')
	else:
	print(i)
	1011 100 011 011 00 011
	a) -12#-12@-9#-6#-6@-3#
	b) -12#-12@-9#-6#-6@-3#-3 c) -12#-9@-6#-3#-3@-3
	d) -12#-9#-9@-6#-3#-3@
	4) -12#-5#-5@-0#-5#-5@
4	Arrange Terabyte(TB), Zettabyte(ZB) and Gigabyte(GB) in increasing order.
	TB 7B 0B
	a) TB, ZB, GB
	b) GB, TB, ZB c) ZB, TB, GB
	d) None of the above
	d) None of the above
5	How many times is the word "Hello" printed in the following code?
	and the bull of Alberta
	s="DHoNI ipL Virat"
	for ch in s[-3:-8:-2]:
	print/"Hello" \
	print("Hello")

	a) 5
	b) infinite
	0) 3
	d) 8
-	Which of the following is not correct about python?
6	Which of the following is not
	language
1	a) Python is an open source tanguage. b) Python is based on ABC language.
	a) Python is an open ABC language. b) Python is based on ABC language. c) Python was developed by Guido Van Rossum c) Python was developed by Guido Van Rossum
-	d) None of the above Evaluate and find the output of the following expression:
N	
	4+3**2%(6-10)/8
-	
	(a) 4.0
	(b) -3.375
	c) 3.625
	d) 5.75
8	Python uses a/an to convert source code to object code.
1	a) Compiler
	b) Interpreter
	c) Combination of Interpreter and compiler
	d) Special virtual engine
9	The result of bool(0) is False.
	(a) True
	(a) True
	b) False
10	In the Python statement $x = a + 5 - b$
10	
	a and b are
	a) Operators
	b) Expression
	cy Operands
	d) Equation
	In python, a variable may be assigned a value of one type, and then later assigned a
11	value of a different type. This concept is known as
	value of a different type. This concept is known as
	a) Static typing
	A later than the second
	d) Dynamic linking
	to the state of th
12	The binary equivalent of the octal Numbers 13.54 is
	a) 001011.101100
	b) 001001.111000
	c) 001101.101002
	dy None of these
13	Which of the following are application software?
	a) Adeha Bhatashan
	a) Adobe Photoshop
	b) GIMP
	c) school management Software
	d) All of the above

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Which one of the following is immutable data type?
 14
          a)List
         b)String
c)Dictionaries
         d)Sets
         Convert (889.25)10 to (?)8
 15
         a) 1571.02
b) 1751.02
         c) 1571.2
         d) 571.2
        What is the output of the following code?
16
        K=0
        for i in "Goodluck":
          If 6=k=10:
             k+=6
             print(k,end=' ')
           elif k<6:
              k+=4
              print(k,end=' ')
            else:
              break
          a) 48
          b) 6
          c) No output
          d) 4814
           An empty /null statement in Python is ......
  17
           a) \n
           b) None
           c) null
           d) pass
           What will be the output produced by the following code?
  18
           a="term-"
           for i in a:
             if i.find('t')==False:
               if a.endswith("m-"):
                  print(a.replace(i,chr((ord(i)-32))))
           a) No output
           b) Term-
           c) TERM-
           d) tErm-
             teRm-
             terM-
             term
                                           operations on string data type.
           Python allows
  19
          a) Concatenation
          b) Membership
          c) Slicing
          All of the above
```

	high of the following
	The octal integer literal and hexadecimal integer literals start with which of the following symbols respectively?
0	The octal integer literal and hexadecimal integer
	symbols respectively?
	a) O0, X0
	b) 0O, oX
	c) Oct0, Hex0
	d) 00, 0x Which of the following statement is correct for 'and' operator? Which of the following statement is correct for 'and' operator?
1	Which of the following statement is Which of the following statement is Which of the following statement is the first one is False a) Python only evaluates the second argument if the first one is True
	a) Python only evaluates the second argument if the first one is True
	a) Python only evaluates the second argument if the first one is True b) Python only evaluates the second argument is True
1	c) Python only evaluates True if any one argument is True
	Python only evaluates False if any one argument if False
2	What is the output of the following code?
	True=False
	while True:
	print(True) break
	a)True b)False
	c)Error message will be shown during execution.
	d)None of the above
3	The two membership operators areand
	a) =,== b) true false
	c) in, not in
	d) is, is not
24	What will the following command display?
	print(len("Best of luck".upper().split('o')))
	a) 3
	b) 2
	c) ['BEST','OF','LUCK']
	d) 1 Special meaning words of Pythons, fixed for specific functionality are called
25	Special meaning words of Fythons, fixed for opening tarreations,
	a) Identifiers
	b) Functions
	d) Literals
	Section-B
	This section consists of 24 Questions (26 to 49).
1	Attempt any 20 questions.
	A token is also called a
26	A token is also called a
26	
26	a) expression b) /data type
26	a) expression



```
Which of the following statement is not true?
   32
          a) RAM is an example of Primary memory
          b) RAM is a non-volatile memory
          Which of the following statement is correct in accessing each element of string?
  33
          a="Learning"
          while(i):
           print(i)
         a="Learning"
         for i in a:
          print(i)
          a) ionly
         b) ii only
         c) Both i and ii
         d) None of the above
         The operator used to check if both the operands reference the same object memory.
 34
         is the ..... operator.
         a) in
         by ==
        c) id
        d) is
        What will be the output produced by the following code?
35
        a, b, c = 1, 1, 1
d = 0.3
         e=a+b+c-d
         f=a+b+c==d
         print(e) 2.7
         print(f)
         al 2.7
            False
         b) 3.0
             True
         c) 2
            False
         d) 2.7 True
         Which of the following operator has its associativity from right to left?
 36
         (a) +
         b) //
         c) %
         d) **
         Assertion(A): You will get an error if you use double quotes inside a string that is
37
         surrounded by double quotes:
         Example:
        txt = "We are the so-called "Vikings" from the north."
        Reason(R): The ONLY way to fix this problem, is to use the escape character \"
```

	To A is false and R is true
	a) A is false and R is true b) A is true but R is not correct explanation of A, as there are alternate ways for the
	came
	c) A and R both are false d) A is True and R is correct explanation of A
	(d) A is True and R is correct explanation
38	What will the following command display?
1	print('#'.join("12345"))
	a) #12345 b) #12345#
	OY 1#2#3#4#5
	d) 1#2#3#4#5#
39	S="abcdef"
	print(S('h'))
	The above code when
	The above code when executed, gives a value error. Which function among the following will yield such an error?
	yield such an error?
	a) index
	b) endswith
	c) split
40	d) find
1.0	What does the following Python program display ?
1	x = 3
1	if x == 0;
	print ("Am I here?", end = ' ') elif not x == 5 and x==3;
	print("Or here?", end = ' ')
	else
	pass
	print ("Or over here?")
	a) Or over here? Am I here?
	b) Or here?
	c) Am I here? Or here?
	d) Or here? Or over here?
41	What is the output of the following code?
	for x in [1,2,3]:
	for y in range(2,4): if x+y>4
	continue
	print(x*y,end='\$')
	a) 2\$3\$4\$
	b) 2\$3\$4 c) 3\$4\$6\$6\$9\$
	d) 1\$2\$3\$2\$4\$3\$
42	What is the output of the following code?
	print("xyyzxyzxzxyy".capitalize().count('Xyy', 0, 100))
	a) 2
	b) 0
	c) 1
	dy error message displayed

8 of 10

initic i = a print(i == i+2) i+=2 by many times will the above loop be executed? 10 times 5 times 11 times infinite loop hat will be the output of the following code? sg="CompuTer" sg1=" i in range(0, len(Msg)): if Msg[i] isupper(): Msg1=Msg1+Msg[i].lower() elif i%2==0: Msg1=Msg1+Msg[i].upper() rint(Msg1) cO*P*t*R
print(i == i+2) i+=2 bw many times will the above loop be executed? 10 times 5 times 11 times infinite loop hat will be the output of the following code? sg="CompuTer" sg1=" r1 in range(0, len(Msg)): if Msg[i] isupper(): Msg1=Msg1+Msg[i].lower() elif i%2==0: Msg1=Msg1+**' else: Msg1=Msg1+Msg[i].upper() rint(Msg1) CO*P*t*R Co*p*t*R Co*p*t*R Co*p*t*R Co*p*t*T COP*tR Section-C Case Study based Questions This section consists of 6 Questions (50 -55)
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Msg1=Msg1+Msg[i].lower() elif i%2==0: Msg1=Msg1+'*' else: Msg1=Msg1+Msg[i].upper() rint(Msg1) cO*P*t*R co*p*t*R co*p*t*r cOP*tR Section-C Case Study based Questions This section consists of 6 Questions (50 -55)
elif i%2==0: Msg1=Msg1+'*' else: Msg1=Msg1+Msg[i].upper() rint(Msg1) / cO*P*t*R / Co*p*t*R / co*p*t*r / cOP*tR Section-C Case Study based Questions This section consists of 6 Questions (50 -55)
else: Msg1=Msg1+Msg[i].upper() rint(Msg1) CO*P*t*R Co*p*t*R Co*p*t*r COP*tR Section-C Case Study based Questions This section consists of 6 Questions (50 -55)
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CO*P*t*R Co*p*t*R Co*p*t*r COP*tR Section-C Case Study based Questions This section consists of 6 Questions (50 -55)
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Case Study based Questions This section consists of 6 Questions (50 -55)
This section consists of 6 Questions (50 -55)
Attempt any 5 questions.
Mr. Ram joined recently in XYZ SOLUTIONS Ltd. During his training period he got the following code fragment to be solved. Help him to complete the partially filled code with appropriate statements to complete the task.
" Program to accept a string and print the following:
1.sum of the digits in a given string
2.print the number of words in a given string.
3. concatenate the sum of the digits at the end of the string and display "
s=("Enter a string:") // Statement 1
sum=0
for i in yange (lun(s)) //Statement 2
for in yange (lun(s)) //Statement 2 if i //Statement 3
sum+=//Statement 4
print("Sum of digits is :",sum)
print("Number of words in a given string",) // Statement 5

50	Choose the correct option from the following for statement 1
	a) int()
	b) int(input)
	c) input
	d) Input(Str)
51	Choose the correct option from the following for statement 2
	a) range(len(s))
	(b) s
	c) range(len(s)-1,-1,-1)
	d) len(s)
52	Choose the correct option from the following for statement 3
	a) isdigit(), True
	b) isalnum(), True
	c) isalpnum (),False
000	d) isdigit(), False
53	Choose the correct option from the following for statement 4
	a) int(s[i])
	(b) i
	c) int(i)
	d) ord(i)
54	Choose the correct option from the following for statement 5
	a) s.split()
	b) split(s)
	c) fen(s.split())
	d) len(s.partition())
(FE)	
55	Choose the correct option from the following for statement 6
	a) s+chr(sum)
	b) s+sum
1	c) ord(sum)+s
	d) s+str(sum)