|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| **CLASS REVISION TEST-2**  **Computer Science** | | | | | |
| **EX.NO** |  | **AD.NO** |  | **GRADE** | **XII-EINSTEIN** |
| **DATE** | **26/11/19** | **MARKS** | **60** | **TIME** | **3 Hrs** |

1. What Is The Default Return Value For A Function That Does Not Return Any Value Explicitly? (1)

2. What Is The Name Given To That Area Of Memory, Where The System Stores The Parameters And Local Variables Of A Function Call? (1)

**A.** a heap **B.** storage area **C.** a stack **D.** an array

3. What Is The Output Of The Following Code Snippet? (1)

deffunc(message, num = 1):

print(message \* num)

func('Welcome')

func('Viewers', 3)

4. State the difference between: (4)

a. Formal parameters and actual parameters

b. Local variables and global variables

5. State the use of global keyword. Give an example to illustrate its use. (3)

1. What Is The Default Return Value For A Function That Does Not Return Any Value Explicitly? (1)
2. What Is The Name Given To That Area Of Memory, Where The System Stores The Parameters And Local Variables Of A Function Call? (1)

**A.** a heap **B.** storage area

**C.** a stack **D.** an array

3. What Is The Output Of The Following Code Snippet? (1)

deffunc(message, num = 1):

print(message \* num)

func('Welcome')

func('Viewers', 3)

1. State the difference between: (4)
2. Formal parameters and actual parameters
3. Local variables and global variables
4. State the use of global keyword. Give an example to illustrate its use. (3)

|  |
| --- |
| 1. Write down the flow of execution *(which line of code execute first and after and so on)* for the code : (2)   def power(b,p):  r=b\*\*p  return r  defCalcSquare(a):  a=power(a,2)  return a  #\_main\_  n=5  result=CalSquare(n)  print(result) |
| |  |  | | --- | --- | | 1. What is scope ? What are the scope resolving rules of Python ? (2)  |  | | --- | | 1. Predict the output of the following code fragment : (2)   def check(n1=1, n2=2):  n1=n1+n2  n2+=1  print(n1,n2)  check( )  check(2,1)  check(3) | | |
| 9. Write a Python program to have following features: (3)  i) A function that takes a number as argument and calculates cube for it. The function does not return a value.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ii) If there is no value passed to above created function i.e. 9(a) in function call, the function should calculate cube of 2.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1. A function that takes two char arguments and returns True if both arguments are equal?   10.Answer the following questions. (3)   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) Which file must be present inside a directory to be considered by python as a library?   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | b) What is namespace in Python ?   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | c) From which folder, Python interpreter imports Python library and packages ?   |  | | --- | | 11. Rewrite the following Python code after removing all syntax error(s). Underline the |   each correction done. (2)   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | def main( ):  r = input("Enter any radius : ")  A -pi \* math**s**.pow(r,2)  Print("Area = "+a)  Main()   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 12. i) Consider the following code : (2)  import math  import random  print(str(int(math.pow(random.randint(2,4),2))), end =" ") #Statement1  print(str(int(math.pow(random.randint(2,4),2))), end =" ") #Statement2  print(str(int(math.pow(random.randint(2,4),2)))) #Statement3  What could be the possible outputs out of the given choices, also state the reason for each option, why :  a) 2 3 4 b) 9 4 4 c) 16 16 16 d) 2 4 9 e) 4 9 4 f) 4 4 4  ii) Study the following program and select the possible output(s) from the options (i) to (iv) following it. Also, write the maximum and the minimum values that can be assignedto the variable Y. (2)  import random  X= random.random()  Y= random.randint(0,4)  print(int(X),":",Y+int(X))  iii) What are the possible outcome(s) executed from the following code? Also specify the maximum and minimum values that can be assigned to variable N. (2)  import random  NAV = ["LEFT","FRONT","RIGHT","BACK"]  NUM = random.randint(1,3)  NAVG = ""  for C in range(NUM,1,-1):  NAVG = NAVG + NAV[C]  print(NAVG)   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | iv) What are the possible outputs of the following program? Also, specify the maximum and minimum values that can be assigned to variable count. (2)  import random  text = "CBSEONLINE"  count = random.randint(0,3)  c=9  while text[c] != 'L':  print(text[c]+text[count]+'\*',end=" ")  count= count + 1  c = c-1  i. EC\* NB\* IS\*  ii. NS\* IE\* LO\*  iii. ES\* NE\* IO\*  iv. LE\* NO\* ON\*  13. Create a module lengthconversion.py that stores functions for various length conversions e.g. (3)  ● miletokm( ) to convert miles to kilometers  ● kmtomile( ) to convert kilometers to miles  ● feettoinches( ) to convert feet to inches  ● inchestofeet( ) to convert inches to feet  Make sure above module meets the requirement of being a Python module. Also, you should be able to import above module using import command.  14. How many times is the world ‘HELLO’ printed in the following statement (1)  s=’python rocks’  for ch in s[3:8]:  print(‘HELLO’)  15. i) What is a URL? Identify the various parts of a URL in the example given below (1)  <http://encycle.msn.com/getinfo.styles.asp>  ii) Look at the image given below and answer questions that follow : -    (a) Name the command which gives such type of result. (1)  (b) Why is this command used? (1)  iii)    (a)What is the above image representing? (1)  (b) Which device in the Internet terminology does modulation demodulation? (1)  iv) What measures wireless networks employ to avoid collisions? (2)  v) Name the network tools used in the given situations: (4)  (a) To troubleshoot internet connection problems  (b) To see the IP address associated with a domain name  (c) To look up registration record associated with a domain name.  (d) To test the speed of internet connection  vi) Write difference between IP v-4 and IPv-6. (2)  vii) Name an error checking technique and its types used in transmission of data over a network. (2)  16. Find the output of the following: (2)  L1 = [100,900,300,400,500]  START = 1  SUM = 0  for C in range(START,4):  SUM = SUM + L1[C]  print(C, ":", SUM)  SUM = SUM + L1[0]\*10  print(SUM)  17. i) Write the definition of a function Reverse(X) in Python to display the elements in reverse order such that each displayed element is twice of the original element (element\*2) of the List X in the following manner: (2)  Example:  If List X contains 7 integers as follows:   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | X[0] | X[1] | X[2] | X[3] | X[4] | X[5] | X[6] | | 4 | 8 | 7 | 5 | 6 | 2 | 10 |   After executing the function, the array content should be displayed as follows:  20 4 12 10 14 16 8  ii) Consider the following unsorted list: 95 79 19 43 52 3. Write the passes of bubble sort for sorting the list in ascending order till the 3rd iteration. (3)  iii) Create a package Arithmetic Operations(named AO) contain sum, product and  difference of two numbers and use it in your main programme. (3)  iv)Find the output of the following:   1. a = 10 (2)   print ( a )  defcall( ):  global a  a = 15  b = 20  print( a , b)  call()  print(a)   1. def Alter(X ,Y=30): (2)   X+=2  Y-=2  print( Y+1,"@",X-1)  return (X)  X=15  Y=10  print(Alter(R,S))  print(X)   1. def Alter(x,y=20): (3)   x=x\*y  y=x%y  print (x,'\*',y)  return (x)  a=200  b=30  a=Alter(a,b)  print (a,'$',b)  b=Alter(b)  print (a,'$', b)  a=Alter(a)  print (a,'$',b)   1. Msg="CompuTer" (2)   Msg1=''  for i 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()  print(Msg1) | |  | | |  | | | | | | | | | |