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|  **ST. JOSEPH’S UNIVERSITY, BANGALORE-27** |
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| **SEMESTER EXAMINATION: April 2023****(Examination conducted in May 2023** |
| **CSOE4: Python Programming Concepts****(For current batch students only)** |
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| **Time- 2 hrs** |  |  **Max Marks-60** |
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| **This paper contains twelve printed pages**1. Which type of Programming does Python support?a) object-oriented programmingb) structured programmingc) functional programmingd) all of the mentioned
2. Is Python case sensitive when dealing with identifiers?a) nob) yesc) machine dependentd) none of the mentioned
3. Which keyword is used for function in Python language?a) Functionb) defc) Fund) Define
4. Which of the following is not a core data type in Python programming?a) Tuplesb) Listsc) Classd) Dictionary
5. What is the order of namespaces in which Python looks for an identifier?a) Python first searches the built-in namespace, then the global namespace and finally the local namespaceb) Python first searches the built-in namespace, then the local namespace and finally the global namespacec) Python first searches the local namespace, then the global namespace and finally the built-in namespaced) Python first searches the global namespace, then the local namespace and finally the built-in namespace

6.What arithmetic operators cannot be used with strings in Python?a) \*b) –c) +d) All of the mentioned7. What will be the output of the following Python function?len(["hello",2, 4, 6])a) Errorb) 6c) 4d) 38. Which of the following is a Python tuple?a) {1, 2, 3}b) {}c) [1, 2, 3]d) (1, 2, 3)9.  Which of the following is the use of id() function in python?a) Every object in Python doesn’t have a unique idb) In Python Id function returns the identity of the objectc) None of the mentionedd) All of the mentioned10. What is the maximum possible length of an identifier?a) 31 charactersb) 63 charactersc) 79 charactersd) none of the mentioned11. Why are local variable names beginning with an underscore discouraged?a) they are used to indicate a private variables of a classb) they confuse the interpreterc) they are used to indicate global variablesd) they slow down execution12. Which of the following cannot be a variable?a) \_\_init\_\_b) inc) itd) on13. Which one of these is floor division?a) /b) //c) %d) None of the mentioned14. What is the output of this expression, 3\*1\*\*3?a) 27b) 9c) 3d) 115. Which one of the following has the highest precedence in the expression?a) Exponentialb) Additionc) Multiplicationd) Parentheses16. Which of the following is not a complex number?a) k = 2 + 3jb) k = complex(2, 3)c) k = 2 + 3ld) k = 2 + 3J17. What will be the output of the following Python code?i = 1while False: if i%2 == 0: break print(i) i += 2a) 1b) 1 3 5 7 …c) 1 2 3 4 …d) none of the mentioned18. What will be the output of the following Python code?x = "abcdef"i = "a"while i in x: x = x[1:] print(i, end = " ")a) a a a a a ab) ac) no outputd) error19. The output of executing string.ascii\_letters can also be achieved by:a) string.ascii\_lowercase\_string.digitsb) string.ascii\_lowercase+string.ascii\_uppercasec) string.lettersd) string.lowercase\_string.uppercase20. What will be the output of the following Python code? >>>print (r"\nhello")a new line and hellob) \nhelloc) the letter r and then hellod) error21. Which of the following statement prints hello\example\test.txt?a) print(“hello\example\test.txt”)b) print(“hello\\example\\test.txt”)c) print(“hello\”example\”test.txt”)d) print(“hello”\example”\test.txt”)22. Suppose s is “\t\tWorld\n”, what is s.strip()?a) \t\tWorld\nb) \t\tWorld\nc) \t\tWORLD\nd) World23. Say s=”hello” what will be the return value of type(s)?a) intb) boolc) strd) String24. What will be the output of the following Python code?print("xyyzxyzxzxyy".count('yy'))a) 2b) 0c) errord) none of the mentioned25. What will be the output of the following Python code?print("Hello {name1} and {name2}".format(name1='foo', name2='bin'))a) Hello foo and binb) Hello {name1} and {name2}c) Errord) Hello and26. Which of the following commands will create a list?a) list1 = list()b) list1 = []c) list1 = list([1, 2, 3])d) all of the mentioned27. What is the output when we execute list(“hello”)?a) [‘h’, ‘e’, ‘l’, ‘l’, ‘o’]b) [‘hello’]c) [‘llo’]d) [‘olleh’]28. Suppose list1 is [1, 5, 9], what is sum(list1)?a) 1b) 9c) 15d) Error29.Suppose list1 is [4, 2, 2, 4, 5, 2, 1, 0], Which of the following is correct syntax for slicing operation?a) print(list1[2:])b) print(list1[:2])c) print(list1[:-2])d) all of the mentioned30. What will be the output of the following Python code snippet?k = [**print**(i) **for** i **in** my\_string **if** i **not** **in** "aeiou"]a) prints all the vowels in my\_stringb) prints all the consonants in my\_stringc) prints all characters of my\_string that aren’t vowelsd) prints only on executing print(k)31. Which of the following is not used as conditional statement in Python?1. switch
2. if...else
3. elif
4. None of the mentioned above

32. What will be the output of the following Python code snippet?print([i.lower() for i in "HELLO"])a) [‘h’, ‘e’, ‘l’, ‘l’, ‘o’]b) ‘hello’c) [‘hello’]d) hello33. Conditional statements are also known as \_\_\_ statements.1. Decision-making
2. Array
3. List
4. None of the mentioned above

34. Python Dictionary is used to store the data in a \_\_\_ format. 1. Key value pair
2. Group value pair
3. Select value pair
4. None of the mentioned above

35. Which of the statements about dictionary values if false?a) More than one key can have the same valueb) The values of the dictionary can be accessed as dict[key]c) Values of a dictionary must be uniqued) Values of a dictionary can be a mixture of letters and numbers36. If a is a dictionary with some key-value pairs, what does a.popitem() do?a) Removes an arbitrary elementb) Removes all the key-value pairsc) Removes the key-value pair for the key given as an argumentd) Invalid method for dictionary37. What will be the output of the following Python code snippet?test = {1:'A', 2:'B', 3:'C'}test = {}print(len(test))a) 0b) Nonec) 3d) An exception is thrown38. What will be the output of the following code snippet?a = 3b = 1 print(a, b)a, b = b, a print(a, b)a) 3 1 1 3b) 3 1 3 1c) 1 3 1 3d) 1 3 3 139.  Python supports the creation of anonymous functions at runtime, using a construct called \_\_\_\_\_\_\_\_\_\_a) lambdab) pic) anonymousd) none of the mentioned40. What will be the output of the following Python code?def f(x, y, z):  return x + y + zf(2, 30, 400)a) 432b) 24000c) 430d) No output41. What will be the output of the following Python code?min = (lambda x, y: x if x < y else y) min(101\*99, 102\*98)a) 9997b) 9999c) 9996d) None of the mentioned42. Which are the advantages of functions in python?a) Reducing duplication of codeb) Decomposing complex problems into simpler piecesc) Improving clarity of the coded) All of the mentioned43. What are the two main types of functions?a) Custom functionb) Built-in function & User defined functionc) User functiond) System function44 What will be the output of the following code snippet?a = [1, 2, 3, 4, 5]sum = 0for ele in a: sum += ele print(sum)1. 15
2. 0
3. 20
4. None of the above

45. Which of the following refers to mathematical function?a) sqrtb) rhombusc) addd) none of the above46. What will be the output of the following Python code?def cube(x): return x \* x \* x x = cube(3) print xa) 9b) 3c) 27d) 3047. How many keyword arguments can be passed to a function in a single function call?a) zerob) onec) zero or mored) one or more48.  What will be the output of the following Python code?def foo(): total += 1 return totaltotal = 0print(foo())a) 0b) 1c) errord) none of the mentioned49. What will be the output of the following Python code?def f1(): x=15 print(x)x=12f1()a) Errorb) 12c) 15d) 151250. What will be the output of the following Python code?def f1(): x=100 print(x)x=+1f1()a) Errorb) 100c) 101d) 9951. The % operator returns the \_\_\_.a) Quotientb) Divisor1. Remainder
2. None of the mentioned above

52. What are the methods which begin and end with two underscore characters called?a) Special methodsb) In-built methodsc) User-defined methodsd) Additional methods53. What is the name of the operator \*\* in Python?a) Exponentiationb) Modulusc) Floor divisiond) None of the above54. Which of the following blocks will always be executed whether an exception is encountered or not in a program?a) Tryb) exceptc) finallyd) none of the above55. Amongst the following, who is the developer of Python programming?a) Guido van Rossumb) Denis Ritchiec) Y.C. Khenderakard) none of the mentioned56. To open a file c:\scores.txt for reading, we use \_\_\_\_\_\_\_\_\_\_\_\_\_a) infile = open(“c:\scores.txt”, “r”)b) infile = open(“c:\\scores.txt”, “r”)c) infile = open(file = “c:\scores.txt”, “r”)d) infile = open(file = “c:\\scores.txt”, “r”)57. Which of the following best describes inheritance?a) Ability of a class to derive members of another class as a part of its own definitionb) Means of bundling instance variables and methods in order to restrict access to certain class membersc) Focuses on variables and passing of variables to functionsd) Allows for implementation of elegant software that is well designed and easily modified58. Which of the following statements is wrong about inheritance?a) Protected members of a class can be inheritedb) The inheriting class is called a subclassc) Private members of a class can be inherited and accessedd) Inheritance is one of the features of OOP59. Suppose B is a subclass of A, to invoke the \_\_init\_\_ method in A from B, what is the line of code you should write?a) A.\_\_init\_\_(self)b) B.\_\_init\_\_(self)c) A.\_\_init\_\_(B)d) B.\_\_init\_\_(A)60. Which of the following best describes polymorphism?a) Ability of a class to derive members of another class as a part of its own definitionb) Means of bundling instance variables and methods in order to restrict access to certain class membersc) Focuses on variables and passing of variables to functionsd) Allows for objects of different types and behaviour to be treated as the same general type |
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