

Code No. : 1285

B. C. A. (Second Semester) Examination, 2022-23

run

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Paper First

PYTHON PROGRAMMING (MAJOR)

Course Code—BCA-201(T)

In Figures (अंकों में) :

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Date : .....

Time : 2 Hrs.

Signature of Invigilator

कक्ष निरीक्षक के हस्ताक्षर

Max. Marks : 75

**Important Instructions :**

1. The candidate will write his/her Roll Number only at the places provided for, i. e., on the cover page and on the OMR answer sheet at the end and nowhere else.
2. Immediately on receipt of the question booklet, the candidate should check up the booklet and ensure that it contains all the pages and that no question is missing. If the candidate finds any discrepancy in the question booklet, he/she should report the invigilator within 10 minutes of the issue of this booklet and a fresh question booklet without any discrepancy is obtained. No second question booklet shall be given to a candidate under any circumstances after 10 minutes. The candidate should be careful in handling the question booklet and in filling the OMR answer sheet given separately with this booklet.

**महत्वपूर्ण निर्देश :**

1. अभ्यर्थी अपने अनुक्रमांक केवल उन्हीं स्थानों पर लिखेंगे जो इसके लिए दिये गये हैं, अर्थात् प्रश्न पुस्तिका के मुख्य पृष्ठ तथा साथ दिये गये ओ. एम. आर. उत्तर पत्र पर, तथा अन्यत्र कहीं नहीं लिखेंगे।
2. प्रश्न पुस्तिका मिलते ही अभ्यर्थी को जाँच करके सुनिश्चित कर लेना चाहिए कि पुस्तिका में पृष्ठ हैं और कोई प्रश्न छूट तो नहीं है। यदि कोई विसंगति है तो प्रश्न पुस्तिका मिलने के 10 मिनट के भीतर ही कक्ष परिपोषक को सूचित करना चाहिए और बिना झुट्टि की दूसरी प्रश्न पुस्तिका प्राप्त कर लेना चाहिए।
3. किसी भी परिस्थिति में 10 मिनट बाद प्रश्नपुस्तिका को दूसरी प्रश्न पुस्तिका नहीं मिलेगी। प्रश्नपुस्तिका को प्रश्न पुस्तिका को उपयोग में लाने और ओ. एम. आर. उत्तर पत्र को भरने में सावधानी बरतनी चाहिए।

#

(Contd. on the last page / अन्य निर्देश अन्तिम पृष्ठ पर)

1. Which of the following is not a function of tuple ?
- (A) min()
  - (B) count()
  - (C) update()
  - (D) max()
2. What error will occur when you execute the following code ?
- (A) MANGO = APPLE
  - (B) ValueError
  - (C) SyntaxError
  - (D) TypeError
3. What happens when '2' == 2 is executed ?
- (A) True
  - (B) False
  - (C) ValueError occurs
  - (D) TypeError occurs
4. Which of the following will run without errors ?
- (A) round(545.8)
  - (B) round(6352.898, 2, 5)
  - (C) round(7463.123, 2, 1)
  - (D) All of the above
5. In order to store values in terms of key and value we use what core data type ?
- (A) list
  - (B) dictionary
  - (C) tuple
  - (D) class
6. Which one of these is floor division ?
- (A) %
  - (B) //
  - (C) /
  - (D) None of the above
7. What is the answer to this expression 115%2 ?
- (A) 0
  - (B) 4
  - (C) 2
  - (D) 1

8. Which of the following represents the bitwise XOR operator ?

- (A) &
- (B) |
- (C) ^
- (D) !

9. Which module in Python supports regular expressions ?

- (A) re
- (B) regex
- (C) pyregex
- (D) None of the above

10. What will be the output of the following Python expression ?

float(1011)

- (A) 1011
- (B) 1011.0
- (C) Both (A) and (B)
- (D) None of the above

11. Which of the following is not a class method ?

- (A) Bounded
- (B) Unbounded
- (C) Static
- (D) Non-static

12. The assignment of more than one function to a particular operator is .....

- (A) Operator overloading
- (B) Operator overriding
- (C) Operator over-assignment
- (D) Operator instance

13. .... represents an entity in the real world with its identity and behavior.

- (A) A method
- (B) A class
- (C) An operator
- (D) An object

14. Which of the following statements are true ?

(A) When you open a file for reading, if the file does not exist, an error occurs.

(B) When you open a file for writing, if the file does not exist, a new file is created.

(C) When you open a file for writing, if the file exists, the existing file is overwritten with the new file.

(D) All of the above

15. Which one of the following is not attributes of file ?

(A) closed

(B) rename

(C) mode

(D) All of the above

16. The readlines() method returns .....

(A) a list of lines

(B) a list of single characters

(C) a list of integers

(D) None of the above

17. To open a file c:\scores.txt for reading, we use .....

(A) infile=open("c:\scores.txt", "r")

(B) infile=open(file="c:\scores.txt", "r")

(C) infile=open(file="c:\\scores.txt", "r")

(D) infile = open("c:\\scores.txt", "r")

18. Lambda is a function in Python.

(A) True

(B) False

(C) Lambda is a function in Python but user cannot use it.

(D) None of the above

19. Negative index -1 belongs to .....  
of string.

- (A) first character
- (B) second character
- (C) second last character
- (D) last character

20. Which statement will check if a is  
equal to b ?

- (A) if a = b:
- (B) if a == b
- (C) if a == c;
- (D) if a = b:

21. Which one of the following has the  
highest precedence in the expression ?

- (A) Division
- (B) Subtraction
- (C) Parentheses
- (D) Power

22. Which one of the following is a valid  
Python if statement ?

- (A) if a >= 2 :
- (B) if (a >= 2)
- (C) if a >= 22
- (D) Both (A) and (B)

23. What is the method inside the class in  
Python language ?

- (A) Object
- (B) Argument
- (C) Attribute
- (D) Function

24. Which of the following is not used as  
loop in Python ?

- (A) for loop
- (B) while loop
- (C) do ..... while loop
- (D) None of the above

25. What will be the output of the following Python code snippet ?

```
print ( [i . lower() for i in "rahul"] )
```

(A) ['rahul']

• (B) ['r', 'a', 'h', 'u', 'l']

(C) 'rahul'

(D) None of the above

26. In Python, which of the following will create a block in a compound statement ?

(A) statements indented at a lower, same level

(B) indentation in any form

(C) colon

• (D) {}

27. Tkinter tool in Python provides the .....

(A) OS commands

(B) Database

• (C) GUI

• (D) None of the above

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

• (A) val

(B) raise

(C) try

(D) with

29. Which of the following statements is correct for variable names in Python language ?

(A) All variable names must begin with an underscore.

(B) The variable name length is a maximum of 2.

• (C) Unlimited length

(D) All of the above

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

(A)  $a^b$

(B)  $a^{^b}$

(C)  $a^{*b}$

• (D)  $a^{**b}$

31. What do we use to change the background color any widget ?
- (A) bg
  - (B) bgcolor
  - (C) bground
  - (D) background
32. Python programming language allows using one loop inside another loop known as :
- (A) switch
  - (B) foreach
  - (C) nested
  - (D) None of the above
33. Which of the following functions will return the total number of characters in a string ?
- (A) length()
  - (B) index()
  - (C) count()
  - (D) len()
34. In which of the following field, we can put our Button ?
- (A) Frame
  - (B) Window
  - (C) Label
  - (D) All of the above
35. Minimum number of arguments we pass in a function to create a rectangle using canvas tkinter :
- (A) 5
  - (B) 4
  - (C) 3
  - (D) 2
36. Which of the following is not legal string operators ?
- (A) +
  - (B) /
  - (C) \*
  - (D) All of the above

37. Which module is used in Python to create Graphics ?

- (A) Turtle
- (B) Canvas
- (C) Tkinter
- (D) None of the above

38. What is the output of this program ?

```
x = (50, 20, 30, 20, 30, 40, 10)
```

```
print (min (x) + max (x))
```

- (A) 70
- (B) 45
- (C) 60
- (D) None of the above

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

- (A) ->
- (B) &
- (C) .
- (D) \*

40. What is a recursive function ?

- (A) A function that calls other function
- (B) A function which calls itself
- (C) Both (A) and (B)
- (D) None of the above

41. Which of the following is correct with respect to the OOP concept in Python ?

- (A) Classes are real world entities while objects are not real.
- (B) Both objects and classes are real world entities.
- (C) Both object and classes are not real.
- (D) Objects are real world entities while classes are not real.

42. Where is function defined ?

- (A) Another Function
- (B) Module
- (C) class
- (D) All of the above

P. T. O.



43. Which of the following statements is wrong about inheritance ?

- (A) Private members of a class can be inherited and accessed.
- (B) The inheriting class is called a subclass.
- (C) Inheritance is one of the features of OOP.
- (D) Protected members of a class can be inherited.

44. What type of inheritance is illustrated in the following Python code ?

```
class X () :
```

```
    pass
```

```
class Y (X) :
```

```
    pass
```

```
class Z (Y) :
```

```
    pass
```

- (A) Single-level inheritance
- (B) Multi-level inheritance
- (C) Multiple inheritance
- (D) Hierarchical inheritance

45. Which of the following is not a valid namespace ?

- (A) Built-in namespace
- (B) Public namespace
- (C) Local namespace
- (D) None of the above

46. Which of the following arguments do we need to pass in reshape() function ?

- (A) Array
- (B) Shape
- (C) Only array
- (D) Both array and shape

47. The process of pickling in Python includes .....

- (A) conversion of a Python object hierarchy into byte stream
- (B) conversion of a datatable into a list
- (C) conversion of a byte stream into Python object hierarchy
- (D) conversion of a list into a datatable

48. What will be the output of the following Python code ?

```
print("ram.kumar".capitalize())
```

(A) RAM.KUMAR

(B) ram.kumar

(C) Ram.Kumar

(D) Ram.kumar

49. What is the output of this program ?

```
c = 10
```

```
sum = 10
```

```
while c <= 11:
```

```
    sum = sum + c
```

```
    c = c + 1
```

```
print (sum)
```

(A) 43

(B) 36

(C) 31

(D) None of the above

50. What is the maximum possible length of an identifier in Python ?

(A) 32 characters

(B) 79 characters

(C) 103 characters

(D) None of the above

51. What is the value of the expression

```
5 + 3*3**2?
```

(A) 28

(B) 30

(C) 32

(D) 64

52. What are the two main types of functions in Python ?

(A) Built-in function and User defined function

(B) User function

(C) System function

(D) Custom function

53. In which language is Python written ?

- (A) R
- (B) PHP
- (C) C
- (D) None of the above

54. What will be the output of the following Python expression if the value of m is 33?

```
print("%f"%m)
```

- (A) 33.00000000
- (B) 33.000000
- (C) 33.0000
- (D) 33.00

55. Python code can run on a variety of platforms, it means Python is a ..... language.

- (A) Cross-platform
- (B) Dependent
- (C) Independent
- (D) All of the above

56. What will be the output of the following Python code ?

```
'{x}{y}{x}'.format(x='good',  
y='morning')
```

- (A) 'good' 'good' 'morning'
- (B) 'good morning'
- (C) 'goodmorninggood'
- (D) 'goodgoodmorning'

57. The global variables are .....

- (A) Internal
- (B) External
- (C) Both External and Internal
- (D) None of the above

58. Which of the following is not a Python IDE ?

- (A) JupyterLab
- (B) Atom
- (C) IDLE
- (D) Thonny

59. Python programs are typed in .....

- (A) Script mode
- (B) Interactive mode
- (C) Both (A) and (B)
- (D) All of the above

60. In order to solve a problem by the computer, one has to pass through certain phases. They are :

- (1) Understanding the problem
- (2) Analyzing the problem
- (3) Developing the solution
- (4) Coding and implementation

Write the correct order :

- (A) 1, 3, 2, 4
- (B) 2, 1, 3, 4
- (C) 2, 1, 4, 3
- (D) 1, 2, 3, 4

61. Python is ..... language.

- (A) Freeware
- (B) Shareware
- (C) Free and open source
- (D) None of the above

62. What will be the output of the following Python expression?

```
x=30.1523
```

```
print("%.3f"%x)
```

- (A) 30.1523
- (B) 30.152
- (C) 30.000
- (D) None of the above

63. An null/empty statement in Python is .....

- (A) go
- (B) over
- (C) pass
- (D) None of the above

P. T. O.

64. What is the output of this program ?

```
a = "Book"
```

```
a = 'a'
```

```
print(a)
```

- (A) a
- (B) aBook
- (C) Booka
- (D) Book

65. What is the output of this program ?

```
sum = 0
```

```
values = [5, 6, 7, 8]
```

```
for number in values:
```

```
    sum = sum + number
```

```
print(sum)
```

- (A) 11
- (B) 26
- (C) 15
- (D) 0

66. Which of the following functions is a built-in function in Python ?

(A) dict()

(B) float()

(C) print()

- (D) All of the above

67. What will be the output of the following Python expression ?

```
round(15.499)
```

(A) 15.5

(B) 16

(C) 15

• (D) 15.4

68. What will be the output of the following Python function ?

```
all([2, 4, 6, 8])
```

- (A) True

(B) False

(C) Error

(D) None of the above

69. What will be the output of the following Python function ?

`complex(1+2j)`

- (A) 1
  - (B) 2j
  - (C) 1+2j
  - (D) Error
70. Which of the following isn't true about dictionary keys ?
- (A) More than one key isn't allowed
  - (B) Keys must be integers
  - (C) Keys must be immutable
  - (D) None of the above

71. The ..... function removes the first element of a set and the last element of a list.

- (A) discard
- (B) dispose
- (C) remove
- (D) pop

72. Which of these about a set is not true ?

- (A) Mutable data type
- (B) Immutable data type
- (C) Does not allow duplicate values
- (D) Data type with unordered values

73. What is the data type of 1 ?

- (A) Integer
- (B) Tuple
- (C) List
- (D) Both (A) and (B)

74. Which of the following is a Python tuple ?

- (A) [1, 2, 3]
- (B) {1, 2, 3}
- (C) (1, 2, 3)
- (D) All of the above

75. The order of statement execution in the form of top to bottom, is known as ..... construct.

- (A) repetition
- (B) sequence
- (C) Both (A) and (B)
- (D) selection

P. T. O.

76. Which of the following is the correct extension of the Python file ?

- (A) .python
- (B) .pl
- (C) .py
- (D) .p

77. Who developed Python Programming Language ?

- (A) Denis Ritchi
- (B) Wick van Rossum
- (C) Niene Ritchi
- (D) Guido van Rossum

78. What data type is the object below ? <https://www.suksn.com>

A = [5, 55, 'good', 7]

- (A) dictionary
- (B) list
- (C) array
- (D) None of the above

79. All keywords in Python are in .....

- (A) Capitalized
- (B) lower case
- (C) UPPER CASE
- (D) None of the above

80. Which keyword is used for function in Python language ?

- (A) def
- (B) Function
- (C) Fun
- (D) Define

81. What is the name of the operator \*\* in Python ?

- (A) Modulus
- (B) Exponentiation
- (C) Floor division
- (D) All of the above

82. Amongst which of the following is/are the logical operators in Python ?

- (A) not
- (B) and
- (C) or
- (D) All of the above

83. Which of the following are valid identifiers ?

- (A) first-name
- (B) \_firstname
- (C) first name
- (D) None of the above

84. Which of the following can be used to create comments ?

- (A) #
- (B) \*
- (C) ...
- (D) ''

85. The default separator character of print() is .....

- (A) space
- (B) new line
- (C) tab
- (D) dot

86. The % operator returns the .....

- (A) Divisor
- (B) Remainder
- (C) Quotient
- (D) None of the above

87. Which of the following characters is used to give single-line comments in Python ?

- (A) //
- (B) /\*
- (C) !
- (D) #



38. What does pip stand for Python ?

- (A) Preferred Installer Program
- (B) Pip Installs Python
- (C) Pip Installs Packages
- (D) None of the above

89. Which of the following functions is a built-in function in Python ?

- (A) factorial()
- (B) sqrt()
- (C) print()
- (D) seed()

90. What does the name Python signify ?

- (A) It is a snake.
- (B) Named after the British comedy group Monty Python.
- (C) It is very difficult to use.
- (D) Named given by US Community.

91. Python Dictionary is used to store the data in a ..... format.

- (A) Select value pair
- (B) Key value pair
- (C) Group value pair
- (D) None of the above

92. Which of the following is/are correct ways of creating strings ?

- (A) name = 'Ojas'
- (B) name = "Ojas"
- (C) name = Ojas
- (D) Both (A) and (B)

93. Which of the following are valid Python data types ?

- (A) list
- (B) Integer
- (C) tuple
- (D) All of the above

94. In Python, a variable must be declared before it assigned a value.

- (A) True
- (B) False
- (C) Only in modules
- (D) None of the above

95. Which of these is not a relational operator ?

- (A) =
- (B) <=
- (C) ==
- (D) >=

96. What is the output of this program ?

```
x = 30.15
y = 3
print (x//y)
```

- (A) 10
- (B) 10.0
- (C) 10.05
- (D) Compilation error

97. In Python, a variable is assigned a value of one type, and then later assigned a value of a different type.

This concept is known as .....

- (A) Suitability
- (B) Stability
- (C) Satiability
- (D) None of the above

98. What will be the output of the following Python code ?

```
x = 'abcd'
for i in x:
    print (i . upper())
```

- (A) abcd
- (B) ABCD
- (C) Error
- (D) None of the above

99. What will be the output of the following Python statement ?

```
>>>"Ram" + "Lal"
```

- (A) Ram
- (B) Ram Lal
- (C) RamLal
- (D) Lal

100. What arithmetic operators cannot be used with strings in Python ?

- (A) -
- (B) \*
- (C) +
- (D) None of the above

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The candidate has to answer all 100 questions given in question booklet. Ovals are given against the alternative answer to each question. The candidate is expected to fill the oval against the particular question. Each question is of .75 mark.

5. There is no separate answer-book and the candidate has no mark answer on the OMR answer sheet given with this booklet separately. **Only this sheet will be evaluated.** In this answer sheet, the candidate is required :

(a) To blacken the alternative (A), (B), (C) or (D) which he/she considers to be correct answer to the question.

(b) To leave blanks all the ovals representing that question which he/she does not attempt.

6. The OMR answer sheet is generated by computer, therefore, in no case it should be mutilated or damaged or dog-eared as such sheet will not be evaluated by the computer.

7. As the maximum time allowed for the examination is 2:00 hours, the candidate is advised to spend initial 1:30 hours for the question paper and the remaining 30 minutes for carefully filling in the OMR answer sheet.

8. The candidate shall not bring any loose paper, whether printed, written or blank, mobile phone, calculator etc. inside the examination hall except the Admit Card.

9. End pages of question booklet shall be used for rough work.

**Note :** Please check the answer number of each question in the question booklet before filling ovals in the OMR answer sheet. Instruction for filling the OMR answer sheet is given on the back of this sheet. Read it carefully and do accordingly. Use **black/blue ball pen only** for filling the OMR answer sheet. Pencil or fountain pen must not be used for this purpose.

4. अभ्यर्थी को प्रश्न पुस्तिका में दिये गये सभी 100 प्रश्नों के उत्तर देने हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तरों के सामने ओवल (गोला) बना हुआ है। अभ्यर्थी द्वारा उपयुक्त ओवल को पूर्णतया काला कर देना है, जिसको वह प्रश्न का सही उत्तर समझता है। प्रत्येक प्रश्न .75 अंक का है।

5. कोई अलग से उत्तर पुस्तिका नहीं है और अभ्यर्थी को प्रश्न पुस्तिका के साथ अलग दिए गए ओ. एम. आर. उत्तर पत्र पर ही प्रश्नों के उत्तर भरने हैं। केवल इस उत्तर पत्र का मूल्यांकन होगा। इस उत्तर पत्र में अभ्यर्थी को निम्न बातें भरनी हैं :

(अ) प्रश्न के वैकल्पिक उत्तर (A), (B), (C) या (D) जिसे वह प्रश्न का सही उत्तर समझता है, उससे सम्बन्धित ओवल को काला करें।

(ब) जिस प्रश्न का उत्तर अभ्यर्थी को नहीं पता है उसके सामने बने सभी ओवल को खाली छोड़ दें।

6. ओ. एम. आर. उत्तर पत्र कम्प्यूटर जनित है। अतः किसी भी दशा में इसे विकृत, क्षतिग्रस्त या इसके कोने मुड़े हुए नहीं होने चाहिए।

7. चूंकि परीक्षा की अधिकतम निर्धारित अवधि 2:00 घण्टा है, इसलिए अभ्यर्थी को सलाह दी जाती है कि वह पहले 1 घण्टा 30 मिनट प्रश्नों को हल करने में तथा शेष 30 मिनट ओ. एम. आर. उत्तर पत्र भरने में लगाये।

8. अभ्यर्थी प्रवेश पत्र के अतिरिक्त कोई भी छपा हुआ, लिखा हुआ या कोरा फालतू कागज, मोबाइल फोन, कैलकुलेटर इत्यादि अपने साथ परीक्षा भवन के भीतर नहीं लायेगा।

9. रफ कार्य प्रश्न पुस्तिका के आखिरी पन्नों पर किया जा सकता है।

**टिप्पणी :** ओ. एम. आर. उत्तर पत्र में प्रश्नों की उत्तर संख्या भरने से पहले प्रश्न पुस्तिका में हल किये गये सभी प्रश्नों की उत्तर संख्याओं की अच्छी प्रकार जाँच कर लें। ओ. एम. आर. उत्तर पत्र भरने का निर्देश उसके पृष्ठ पर दिया गया है। इसे सावधानीपूर्वक पढ़ें और उसके अनुसार भरें। ओ. एम. आर. उत्तर पत्र को भरने के लिए केवल काले/नीले बॉल पेन का प्रयोग करें। पेन्सिल या स्याही वाली पेन का प्रयोग नहीं करना है।