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FOR KARNATAKA CLASS 11 PREPARATION

Karnataka 1st PUC Model Question Paper 2027 for Computer Science (Paper 1)

EXAM	YEAR	TYPE	SUBJECT
Karnataka Class 11	2027	Sample Paper	Computer Science

GOVERNEMENT OF KARNATAKA

DEPRTMENT OF SCHOOL EDUCATION (PRE-UNIVERSITY)

I - PUC MODEL QUESTION PAPER- 1 2026-27

SUBJECT : COMPUTER SCIENCE (41) **MAXIMUM MARKS – 70**

TIME : 03.00 HRS **No. OF QUESTIONS - 44**

PART – A

Answer all the questions. Each question carries One mark.

I. Select the correct answer from the choices given: **15 × 1 = 15**

1. Which component of the computer is called the 'brain of the computer'?
   a) MU b) CU c) CPU d) MAR

2. The arithmetic and logical operations are performed by:
   a) CU b) Registers c) cache d) ALU

3. How many bits are used in ASCII to represent a character?
   a) 6 b) 7 c) 8 d) 9

4. Which of the following is an application of Artificial Intelligence?
   a) Web browsing b) Natural language processing
   c) Word processing d) Spreadsheet calculation

5. Which symbol is used for processing in a flowchart?
   a) Oval b) Rectangle c) Diamond d) Parallelogram

6. Pseudocode is written in _____.
   a) Machine language b) Assembly language
   c) High-level language format d) Natural language like format

7. Which of the following is a valid Python identifier?
   a) 2name b) name$ c) _name d) for

8. What is the output of print(2 ** 3)?
   a) 6 b) 8 c) 9 d) 23

9. Which loop is used when the number of iterations is known beforehand?
   a) while b) if-elif-else c) for d) if

10. A named sequence of statements that performs a computation is called
    a) Variable b) Function c) Module d) Class

11. What does the len() function return when applied to a string?
    a) Last character b) Length of the string c) First character d) Memory size

12. Which method is used to add an element at the end of a list?
    a) insert() b) append() c) extend() d) add()

13. Which of the following is immutable in Python?
    a) List b) Dictionary c) Set d) Tuple

14. Which method returns all the keys in a dictionary?
    a) values() b) items() c) keys() d) get()

15. Which of the following is a type of software license?
    a) Hardware key b) Proprietary c) Monitor d) Printer

II. Fill in the blanks choosing the appropriate word/words: **5 × 1 = 5**

(for, import, pop, clear, return, pass)

16. _____ is the keyword used to include external modules in a Python program.

17. The _____ loop iterates over a sequence.

18. _____ statement is used to exit a function and send back a value to the caller.

19. _____ method is used to remove the last element from a list.

20. _____ method is used to remove all items from a dictionary.

PART – B

III. Answer any FOUR questions. Each question carries TWO marks. **4 × 2 = 8**

21. How is microprocessor different from a microcontroller?

22. Give the use of '= =' and 'is' operators in Python.

23. What is the difference between break and continue statements?

24. Define formal parameters and actual parameters.

25. Give the syntax and example how dictionary is used to store key-value pairs.

26. What is digital divide? Explain its impact on society.

27. Why and how e-waste must be managed effectively?

PART – C

IV. Answer any FOUR questions. Each question carries THREE marks. **4 × 3 = 12**

28. What is the primary role of system bus? Why is data bus bidirectional while address bus is unidirectional?

29. Describe the process of converting a decimal number to binary.

30. Explain the concept of Artificial Intelligence and its goals.

31. What is an algorithm? Explain the characteristics of an algorithm.

32. Describe the process of writing a flowchart for a given algorithm.

33. Explain the different data types in Python with examples.

34. Write the uses of any three string methods with examples.

PART – D

V. Answer any FOUR questions. Each question carries FIVE marks. **4 × 5 = 20**

35. Write a short note on the evolution of computers.

36. What is data? Explain any two types data.

37. Explain the concept of Virtual Reality and discuss its types.

38. Draw a flowchart to find the largest of three numbers.

39. Explain the different types of relational operators in Python with examples.

40. Write the syntax for creating a user defined function and explain.

41. What is a list in Python? Explain with detailed examples the various ways to access elements in a list using indices.

VI. Answer any TWO questions. Each question carries FIVE marks. **2 × 5 = 10**

42. Convert the following:
    a) $(BEAD)_{16} = (?)_{10} = (?)_2 = (?)_8$
    b) $(100101.101)_2 = (?)_{10} = (?)_8$

43. Write the output of the following code:

```
a, b = 8, 3
    a)  print(a + b, a // b, a % b)
    b)  print(a > b and a != b)
x = 15
    c) print(x <= 15 or x == 10)
```

44. Write a program to print the following patterns:

1

1 2

1 2 3

1 2 3 4

* * * * *