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FOR KARNATAKA CLASS 11 PREPARATION

Karnataka 1st PUC Model Question Paper 2027 for Computer Science (Paper 2)

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-2 2026-2027

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

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

PART – A

Answer ALL questions, each question carries ONE mark. **15 x 1 = 15**

I. Select the correct answer from the choices given.

1. Who invented analytical engine?

   a) Blaize Pascal b) Herman Hollerith c) Charles Babbage d) John Von Neumann

2. Which of the following software to be used has to be purchased from the vendor who has the copyright of the software?

   a) FOSS b) Proprietary software c) Freeware d) Openoffice

3. ASCII stands for:

   a) American Standard Code for Information Interchange

   b) American Standard Code for Interchange Information

   c) American Standard Code for Information International

   d) American Standard Code for International Information

4. Following is a humanoid that uses artificial intelligence, visual data processing, facial recognition and also imitates human gestures and facial expressions:

   a) Bionics b) Rover c) Sophia d) Drone

5. What is an algorithm?

   a) It is a visual representation language

   b) Finite sequence of steps to solve the problem

   c) It is a format which can be understood by the computer

   d) Finding and correcting error

6. What does the rhombus(Diamond) symbol in flowchart represent?

   a)Start b) Input c) Process d) Decision

7. What is the extension of Python source code file?

   a) . java b) . exe c) .py d) . txt

8. Which of the following is not a Python keyword?

   a) print b) import c) true d) int

9. What does the break statement do in a loop?

a) Repeats the current iteration b) Exits the loop

c) Skips an iteration d) Restarts the loop

10. Which keyword is used to define a function?

a) define b) def c) dict d) int

11. What is the output of following code: str1='eXCELLENT'

print(str1.title( ))

a) 'eXCELLENT' b) 'EXCELLENT' c) 'excellent' d) 'Excellent'

12. Which data types can a list contain?

a) Only integers b) Only strings c) Only floats d) Mixed data types

13. What will be the output of the following code?

tuple1 = (2,4,6,8,10,12) print(tuple1[-1])

a) 10 b) 2 c) 12 d) 4

14. Which function returns the value corresponding to the key passed as the argument in dictionary?

a) keys( ) b) values( ) c) items( ) d) get( )

15. Any insulting, degrading or intimidating online behavior like repeated posting of rumors, giving threats online, posting the victim's personal information, sexual harassment is termed as:

a) Netizen b) Digital society c) Cyber bullying d) Etiquettes

II.Fill in the blanks choosing the appropriate word/words from those given in the brackets. (Index, Comment, Colon, for, Comma, Module) **5 x 1 = 5**

16. _____is used to add a remark or a note in the source code.

17. The _____ loop iterates over a sequence.

18. _____is a grouping of functions.

19. Each individual element of list can be accessed using_____

20. The_____symbol is used to separate key from value in dictionary.

PART-B

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

21. What is nibble? Give an example.

22. Differentiate interactive mode and script mode.

23. What is nested for loop? Give an example.

24. Give the difference between global and local variable?

25. Why tuple is immutable? Give an example.

26. Mention different types of digital footprint.

27. Explain Intellectual Property Right (IPR).

PART-C

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

28. Define structured, unstructured and semi-structured data.
29. Explain Unicode in encoding scheme.
30. What are the applications of virtual reality?
31. What is pseudocode? What are the benefits of pseudocode?
32. Write an algorithm to find the sum of two numbers entered by user.
33. What is type conversion? Mention different types.
34. Explain membership operation of string with an example.

PART-D

V. Answer any FOUR questions, each question carries FIVE marks **4 x 5 = 20**

35. Explain the block diagram of different components of a computer.
36. Discuss different types of user interface of operating system.
37. Briefly explain different characteristics of big data.
38. Draw a flowchart to calculate area and perimeter of a rectangle.
39. What are the features of python program?
40. What is function? What are the advantages of function?
41. Explain any five built-in functions for list manipulations with an example.

VI. Answer any TWO questions, each question carries FIVE marks **2 x 5 = 10**

42. Convert $(FACE)_{16} = (?)_8 = (?)_2 = (?)_{10}$
43. Write the output of the following:
    a) a,b = 5,10 a,b = a+5,b*5 print(a,b)
    b) a = 50
       b = float(50)
       print(b)
    c) a, b = 50, 2
       print(a//b)
    d) x = 50
       print(x<=50 and x==50)
    e) x, y=5, 2 x**=y
       print(x)
44. Write a program to calculate the factorial of a given number.

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