

KENDRIYA VIDYALAYA – BHU, VARANASI**MONTHLY TEST – SEPTEMBER 2024****Class: XI****Subject: Informatics Practices**

Max. marks: 40M

Time: 1.5 hours

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|-----|---|----|
| 1. | What is the result of the expression $8 + 2 * 3$? A) 30 B) 14 C) 8 D) 9 | 1M |
| 2. | Which operator is used to check if two variables have the same value irrespective of the memory location? A) == B) is C) equals D) identical | 1M |
| 3. | What is the output of <code>bool(1)</code> in Python? A) True B) False C) 0 D) None | 1M |
| 4. | What is the result of $19 \% 3$ in Python? A) 0 B) 1 C) 2 D) 4 | 1M |
| 5. | A complete if else statement can be written as a part of another if statement. State whether the statement is true or false. | 1M |
| 6. | What is the result of expression $98 // 8$ in python? | 1M |
| 7. | What is the result of below expression: <code>print(3**2**2)</code> | 1M |
| 8. | State whether the below datatypes are mutable or immutable: a. int b. tuple | 1M |
| | Assertion and Reason Based questions A) Both A and R are true and R is the correct explanation for A B) Both A and R are true and R is not the correct explanation for A C) A is True but R is False D) A is false but R is True | |
| 9. | Assertion: - In Python, we can take any datatype as input by default using <code>input()</code> function. Reason: - Datatype of Python variables can be changed by the users. | 1M |
| 10. | Assertion: A single print statement can display value of multiple items. Reason: By default, multiple values displayed using a single print statement are separated by a space character (" ") on the output console. | 1M |

Short/Long Answer Questions

| 11. | Elaborate the concept and use of Empty statements with example. | 2M | | | | | | | | | | | | |
|--------------------------|--|------------|-------|--------------|---|-------|---|-------|---|-------|---|--------------------------|---|----|
| 12. | Write a program to check whether any input number is prime or not. | 2M | | | | | | | | | | | | |
| 13. | Explain the use of break and continue statements with example. | 2M | | | | | | | | | | | | |
| 14. | Find the errors in below code and write the correct one: for x in range(5,0) print(x) | 2M | | | | | | | | | | | | |
| 15. | Print the output of below code: A=9 B=14 C=5 A,B,C=C+2,A+1,B-1 print(A,B,C) A,C=C,A print(A) | 2M | | | | | | | | | | | | |
| 16. | Write a program to print below pattern: 11111 2222 333 44 5 | 3M | | | | | | | | | | | | |
| 17. | WAP to input the name and percentage of a student from user and calculate and display the grade in proper format. <table border="1"><thead><tr><th>PERCENTAGE</th><th>GRADE</th></tr></thead><tbody><tr><td>More than 90</td><td>S</td></tr><tr><td>81-90</td><td>A</td></tr><tr><td>71-80</td><td>B</td></tr><tr><td>41-70</td><td>C</td></tr><tr><td>Less than OR equal to 40</td><td>F</td></tr></tbody></table> | PERCENTAGE | GRADE | More than 90 | S | 81-90 | A | 71-80 | B | 41-70 | C | Less than OR equal to 40 | F | 3M |
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| Less than OR equal to 40 | F | | | | | | | | | | | | | |
| 18. | WAP to input a number from user and check if the number is palindrome or not. (i.e. reverse of number is same as original number. Ex - 2332) | 4M | | | | | | | | | | | | |
| 19. | Explain in detail all the tokens with types and appropriate examples. | 5M | | | | | | | | | | | | |
| 20. | Print the output of below: a) "look" and "fat" b) 8 or 16 c) 90.5 % 7 d) 91 + 6 * 48 / 8 – 25 * (35-12) e) ord("c") | 5M | | | | | | | | | | | | |