



ST.MARGARET SR.SEC. SCHOOL
MIDTERM SAMPLE PAPER
2023-24
INFORMATICS PRACTICES – CLASS XI

Time: 3 Hr

MM: 70

General Instructions:

- The paper is divided into 4 Sections- A, B, C, D and E.
- Section A, consists of 18 questions (1 to 18). Each question carries 1 Mark.
- Section B, consists of 7 questions (19 to 25). Each question carries 2 Marks.
- Section C, consists of 5 questions (26 to 30). Each question carries 3 Marks.
- Section D, consists of 2 questions (31 to 32). Each question carries 4 Marks.
- Section E, consists of 3 questions (33 to 35). Each question carries 5 Marks.

Q.N.	Section - A
	This section consists of 18 Questions (1 to 18). Each question carries 1 mark.
1	Find the valid keywords from the following (more than option can be chosen) a. none b. for c. my_name d. int
2	Which of the following option is incorrect? a. The CPU is the calculating device . b. The memory is of three type : RAM, ROM and secondary . c. The Control Unit affects speed of computer system. d. The ALU is the calculating device .
3	What will be the output after the following statements? <pre>x = 40 if x > 10: print(300) elif x == 140 : print(400)</pre> a. 200 b. 400 c. 10 d. 300
4	Which of the following statement is the smallest unit of storage: a) Giga Byte b) Mega Byte c) Tera Byte d) Zeta Byte
5	Which of the following operator cannot be used with float data type? a. + b. in c. / d. //
6	Which of the following is correct for OS? a. Operating Software c . Operation System b. Operating System d. Operation Software
7	What will be the correct statement: To check if a is greater than b, if so, check if a is divisible by 5. a) If a < b : b) if a >= b : c) if a > b : If a % 5 != 0 if a % 5 ==0 if a % 5 == 0
8	The default type of the input() function is a. String b. integer c. void d. float

9	<p>What type of loop is this? For I in range (1 ,1) :</p> <p>c. empty loop b. One time loop c. Infinite loop d. Evergreen loop</p>
10	<p>This memory is in which data is filled by the manufacturer and the user can not store anything inside it, is called .</p> <p>a) Cache memory b) Read Only Memory c) Secondary Memory d) Random access Memory</p>
11	<p>Which of the following is not a type of computer language :</p> <p>a. High Level Language c. Machine Language b. Object Language d. Assembly Language</p>
12	<p>Which one of the following is the extension of an executable file?</p> <p>a. .exe b. .p++ c. .py d. .exec</p>
13	<p>Which of the following is the correct output generated by the following print () statement :</p> <pre>print (5, 9,"MOHAN",18.97,"GUPTA",sep = "%", end = "(")</pre> <p>a. 5\$9\$ MOHAN \$18.97\$GUPTA c. 5\$9\$MOHAN \$18.97\$GUPTA b. 5 \$ 9 \$ MOHAN \$ 18.97 \$ GUPTA \$ d. 5\$9\$MOHAN \$18.97\$GUPTA\$</p>
14	<p>Two modes of python programming ?</p> <p>a) IDLE , script b) Interactive , program c) editor, script d) all of the above</p>
15	<p>Which of the following can be categorized as a ITERATION CONSTRUCT ?</p> <p>a) while b) while – else c) for d) all of the above</p>
16.	<p>Which of the following option is not correct?</p> <p>a. The memory is storage unit of computer . b. The memory is of two type : primary and secondary. c. The memory affects speed of computer system. d. The memory does not affect the speed of computer system</p>
	<p>Q17 and Q18 are ASSERTION and REASONING based questions. Mark the choice as :</p> <p>(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</p>
17	<p>Assertion(A): In python program variable declaration is not mandatory . Reason(R): Python makes default declaration according to the assigned value.</p>
18	<p>Assertion(A): Python does not support type casting. Reason(R): Data type is not a part of variable declaration.</p>
	<p style="text-align: center;">Section- B</p> <p>This section consists of 7 Questions (19 to 25). All the questions carry 2 marks.</p>

19	Write Python expressions to represent the following: a. Find the integral part of the quotient when 63 is divided by 29. b. Add remainder of 6/5 to the product of 6 and 5.
20	Evaluate the following expressions: a) $6 * 3 + 4**2 // 5 - 8$ b) $10 > 5$ and $7 > 12$ or not $18 > 3$
21	Write a program to display all the prime numbers between <i>m</i> and <i>n</i> , where <i>m</i> and <i>n</i> have to be input from the user.
22	Each of the following code segments is written to perform the job specified in the respective comment. Check each of these code segments and make the necessary changes to correct the code: (i) #To display first 10 even natural numbers num=1 while(num<=10): print(num) num+=1 (ii) #To display first 10 odd natural numbers for i in range (10): print(i)
23	Differentiate between sequence and selection construct , with the help of appropriate example.
24	Rewrite following program using for loop t = 115 while t > 112: print(t) t=t-1
25	Name any 2 Input and 2 Output Devices.
Section C This section consists of 5 Questions (26 to 30). All the questions carry 3 marks.	
26.	Write a script to input a number and print all the even numbers upto that number. Display appropriate message.
27	What is a function? Give Example for some functions.
28.	How and where do we use float data type ? explain with the help of an example .
29.	Find error(s), if any, in each of the following function calls: (i) int('5six') (ii) int ("fifty 6") (iii) int(5/4) (iv) input (enter a number :)
30	What do you understand by tokens in a program ? what are the different type of tokens and where are they used ? explain.
Section D This section consists of 2 Questions (31 to 32). All the questions carry 4 marks.	
31	Write a program to input a number from the user and print if it is Perfect number or not, Perfect number is an integer which is equal to the sum of its digits. For example 6 is a Perfect number because $6 = 1+2+3$.
32	Write a program to find the sum of the following series:

