Experts' Institute





Max. Mks: 30



ST. JOSEPH'S COLLEGE, PRAYAGRAJ **SECOND UNIT TEST - 2023 COMPUTER APPLICATIONS**

Class-9

vi.

(Max Time; 90 minutes)

This Paper is divided into two Sections.

Attempt all questions from Section A and any four questions from Section B.

The	intended marks for questions or parts of		
	Section		
	(Attempt all questions fi	om this Section.)	
Questio			[6]
i.	A Patent registered in India is valid for		
	a) 10	b) 20	
	c) 25	d) 15	
ii.	Predict the output of Math.ceil(-5.634	4);	
	a) -6.0	b) Both (a) and (c)	
	c) -5.0	d) None of these	
iii.	is the technique used in business organizations and firms to		
	protect IT assets.	. 1	
	a) Ethical hacking	b) Internal data breach	
	c) Fixing bugs	d) All of these	
iv.	What is the return type of Math.log()	?	
	a) float	b) long	
	c) short	d) double	
v.	DoS is abbreviated as		
	a) Denial of server	b) Distribution of service	
	c) Distribution of software	d) Denial of service	
vi.	Predict the output of Math.sqrt(Math.	.ceil(15.3)+Math.pow(3,2));	
	a) 4.0	b) 5.0	
	c) Syntax error	d) None of these	
Questio			12
i.	Describe Intellectual Property Rights?		[2
ii.			[2]
iii.	Explain <i>Copyright</i> in detail.		[2]
iv.	Define Software Piracy. Explain any	two types of Software piracy.	[2]
V.	Write a short note on <i>Keyloggers</i> .		[2

What is Cybercrime? Give two examples of different types of Cybercrime.

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Section B

(Attempt any two questions from this Section.)

The answers in this section should consist of the programs in either BlueJ environment or any program environment with java as the base.

Each program should be written using variable description so that the logic of the program is clearly depicted.

Flowcharts and algorithms are not required.

Question 3.

[6]

Write a program to compute and display the value of expression: $\sqrt[4]{(1/LC) - (R^2/4C^2)}$ where the value of L, C and R to be entered by the user using *Scanner class*.

NOTE: Display the result with proper message.

Question 4.

[6]

Write a program to compute and display the following operations in a single program:

- a. Positive value of the -273
- b. Store the value 89.99 in a variable and convert it into its closest integer that is greater than or equal to 89.99
- c. Store and print the smallest of -96 and -97.4
- d. Random numbers between 0 (zero) and 1 (one)

NOTE: Display the result with proper message.

Question 5.

[6]

Write a program to compute and display the value of expression: $1/x^2+1/y^3+1/z^4$ where, the values of x, y and z are entered by the user using *Scanner class*.

NOTE: Display the result with proper message.

