



Department of Computer Science
Ability Test - Mathematics

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Date of event: 04/08/2023

Class: I B. Sc CS

Faculty In-charge: Ms. Stinphy Maxon



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REPORT

Department of Computer Science conducted an ability test for students of I BSc CS (2023 admission) to test their knowledge and understanding about the basics of Mathematics. The test was conducted offline. The duration of the test was 1 hour and it carried 10 questions with a score of 2 for each. Out of the 47 students who attempted the exam, a success rate of 50% was achieved. The test was conducted on 04/08/2022 from 9:15 a.m. –10:15 a.m.



Prepared by:

Ms. Stinphy Maxon
(Faculty-in- charge)



Verified by:

Mr. Jayakrishnan S
(HoD, PG Dept of Computer Science)

Approved by:



Rev. Fr. Dr. Paulachan K. J
(Principal)



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Mark list

CLASS: I BSC CS		
Sl. No	Name Of the Student	Marks (20)
1	ADITHYAN T B	4
2	ADITYA PRASANTH	8
3	AKASH K B	7
4	AKSA BIJU	8
5	ALAN SHAJAN	6
6	ALAN SHAJU	A
7	ALEENA JILVI	4
8	ALLAN V L	6
9	ANEESH JOSHY	4
10	ANNA SHAJU	4
11	ANNAROSE	6
12	ANNLINA MIBIN	12
13	ANUPAMA M M	6
14	ASWIN BIJU	5
15	ATHUL K V	2
16	AUSTIN PINESH	2
17	CHRISTOPHER JOBY	4
18	DAMIAN MATHEW	4
19	DELVIN ANTO	2
20	DILJITH REJI	2
21	DOMINIC JEEJO	2
22	ELDHO SHAJU	4
23	FEBIN A S	6
24	GAUTHAM KRISHNA R	8
25	GAUTHAM.C. P	4
26	GLODIN M Y	2
27	GLORIA VARKEYCHEN	A
28	GODWIN K T	3
29	GOPIKA K S	4
30	GREESHMA HARI	4
31	JESVIN JOY	6
32	JIFIN SHAJI	2
33	JOEL SUNNY	8
34	JOYAL JOSHY	10
35	JUSTINE SHAJU	10

36	KARTHIK P SANKAR	6
37	MEBIN MARTIN	2
38	MEENAKSHY T J	2
39	MUHAMMED HAMDAN M A	0
40	NIGEL JINSON JOSEPH	A
41	NITHIN SHAJU	A
42	NIVED A	2
43	RISHIKRISHNA K SHAJU	1
44	SARANYA NS	4
45	SONAT WILSON	2
46	THEJUS KRISHNA CHANDRAMOHAN	2
47	VARUN KRISHNA MENON	6



Shri
Simply Manu

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PHOTOGRAPHS /SCREENSHOTS



Department of Computer Science

Ability Test on Mathematics August 2023

Questions

Each question carries 2 marks

1. Solve the Quadratic equation $2x^2 + 5x + 3 = 0$.
2. Find the sum of the first 20 natural numbers.
3. Find the LCM of 24, 36, 12.
4. Find the sum of $1\frac{2}{3} + \frac{4}{6} - \frac{5}{4}$
5. Find $2^5 \times 2^6, \frac{3^7 \times 2^8}{2^4}$
6. Find $\begin{bmatrix} 2 & 1 \\ 0 & -1 \end{bmatrix} + \begin{bmatrix} 3 & 5 \\ 1 & 4 \end{bmatrix}$
7. Evaluate $\begin{bmatrix} 4 & -2 & 3 \\ 2 & 1 & -7 \end{bmatrix} \begin{bmatrix} 1 & 2 \\ 0 & -1 \\ -1 & 0 \end{bmatrix}$
8. Find $\frac{d}{dx}(\sqrt{x}), \frac{d}{dx}(\sin 2x), \frac{d}{dx}(x \sin 2x)$
9. Evaluate $\int x(x^2 + 1)dx, \int \sin x dx$
10. If one-third of one-fourth of a number is 15, then three-tenth of that number is.....



Handwritten mathematical solutions on a notebook page, including:

- Matrix operations:**

$$\begin{bmatrix} 0 & 1 \\ 0 & -1 \end{bmatrix} = \begin{bmatrix} 3 & 5 \\ 1 & 0 \end{bmatrix} = \begin{bmatrix} 3 & 6 \\ 1 & 3 \end{bmatrix}$$
- Matrix multiplication:**

$$\begin{bmatrix} 3 & -2 \\ 2 & 1 \end{bmatrix} \begin{bmatrix} 1 & 2 \\ 0 & -1 \end{bmatrix} = \begin{bmatrix} 3+0 & 6+2 \\ 2+0 & -2-1 \end{bmatrix} = \begin{bmatrix} 3 & 8 \\ 2 & -3 \end{bmatrix}$$
- Calculus:**

$$\frac{d}{dx} \sin x = \cos x$$

$$\frac{d}{dx} x \sin x = x \cdot \frac{d}{dx} \sin x + \sin x \cdot \frac{d}{dx} x = x \cos x + \sin x$$
- Integration:**

$$\int x(x^2 + 1) dx = \int (x^3 + x) dx = \frac{x^4}{4} + \frac{x^2}{2} + C$$
- Algebra:**

$$2x^2 + 10x + 12 = 0$$

$$x^2 + 5x + 6 = 0$$

$$(x+2)(x+3) = 0$$

$$x = -2, -3$$
- Number theory:**

Let x be the number.

$$\frac{x}{3} + \frac{x}{4} = 15$$

$$\frac{4x + 3x}{12} = 15$$

$$7x = 180$$

$$x = \frac{180}{7}$$

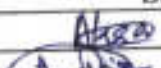
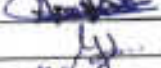
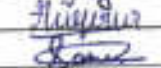









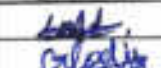





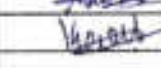








PARTICIPANT'S LIST












Name of the event: Ability Test - Mathematics :

Date: 04/08/2023

Class: I BSc. Cs :

Sl. No.	Name	Signature
1.	AKSA BIJU	
2.	ANNA ROSE	
3.	Gracehina Hui	
4.	Jhupama M.M	
5.	Saranya N's	
6.	ANNHINA MIBIN	
7.	Meenakshy .T.T	
8.	Anna shaju	
9.	Aleena Jilvi	
10.	Gopika ks	
11.	Aashwin Biju	
12.	Gauthamkrishna R	
13.	Thejus Krishna Chanchamchan	
14.	Austin Pinesh	
15.	Metin Mathin	
16.	Aneesh Jashy	
17.	Jithin shaji	
18.	AKASH.K.B.	
19.	Dominic Mathan	
20.	Dijitha Reji	
21.	Muhammed Hamdan M.A	
22.	Sarat Wilson	
23.	Glodin.M.V	
24.	Rishikrishna k shaji	
25.	Induvin KT	
26.	Delvin Anto	
27.	Sayanth Sajeevan	
28.	Dominic Tejo	
29.	JUSTINE SHAJU	
30.	Gautham.c P	
31.	Alan Shayan	
32.	Allan.V.L	
33.	Kaarthik P Sankar	



35.	Aditya Pransavh	
36.	Adithyan TB	
37.	Jal Sunny	
38.	Elaha Shaju	
39.	Athul K.V	
40.	Nithin Shaju	
41.	_____ NIVED.A	
42.	Febin A.S	
43.	Joyal Joshy	
44.	Christopher Joshy	
45.	Jeswin Joy	
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Event Coordinator


Shiny Mann

