

**Dr. Ambedkar College, Nagpur.
Department Of Mathematics
Academic Session - 2020-2021
Report on Aptitude Test for Sem I students**

PROGRAMME DETAILS

NAME OF THE PROGRAMME: Aptitude Test for Sem I Students

NAME OF Program Co-ordinator: Dr. Jitesh Tripathi,
Assistant Professor, Department of Mathematics, Dr.
Ambedkar College, Deekshabhoomi, Nagpur

DAY & DATE: Wednesday, 28th October 2020

TIME: 1.00 PM to 2.00 PM

NOTICE:

DR. AMBEDKAR COLLEGE, DEEKSHA BHOOMI, NAGPUR

NOTICE

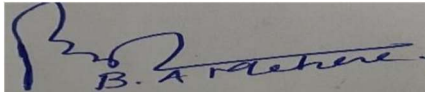
The students of B.Sc. First Semester of Dr. Ambedkar College, Deeksha Bhoomi are hereby informed that an "Aptitude Test" will be conducted by the Department of Mathematics, Dr. Ambedkar College, Deekshabhoomi, Nagpur **on 28th October 2020 at 1.00 PM**, through Google Forms.

Google Form Link- <https://forms.gle/FYv3T3JDJN6Xtoek8>

Program: Aptitude Test

Time: Wednesday, 28th October 2020 Time: 1.00 PM

Aptitude Test is Compulsory for all the students of First Semester.

A handwritten signature in blue ink, appearing to read "B. A. Mehere", is written over a grey rectangular background.

Dr. Mrs. Bhumi Mehere

Principal, Dr. Ambedkar College

Deekshabhoomi, Nagpur.

Prof. Mrs. S M Pawar

Head, Department of Mathematics

Dr. Jitesh Tripathi

Assistant Professor, Department of Mathematics

Report:

Department of Mathematics, Dr. Ambedkar College, Deekshabhoomi, Nagpur had organized an Aptitude Test for B.Sc. students of First Semester, of all the streams on 28th October 2021. Dr. Jitesh Tripathi, Assistant Professor, Department of Mathematics, Dr. Ambedkar College, Deekshabhoomi, Nagpur, was the program coordinator. The Department of Mathematics conducts Aptitude test every year to categorize the students between slow learner and fast learners.

A total of 106 students appeared for the test. The test was of total 30 Marks. Special attention is given towards slow learners during the session.

Aptitude Test for BSc Sem 1 Mathematics 2020-21

Email address *

nishakhankure372@gmail.com

Name of Student *

Nisha shyam khankure

Mobile Number *

7709854842

Email ID: *

nishakhankure372@gmail.com

Group *

- PCM
- PEM
- PCOM
- SCOM
- PSM
- ECOM

Q1. What is the average of first 150 natural numbers? *

2 points

- (A) 70
- (B) 70.5
- (C) 75
- (D) 75.5

Q2. $|-4| + |4| - 4 + 4 = ?$ *

2 points

- (A) 0
- (B) 2
- (C) 4
- (D) 8

Q3. For two or more algebraic expressions, the expression of highest degree which divides each of them without remainder is called *

2 points

- L.C.M
- G.C.D
- rational expression
- irrational expression

Q4. Product of two Numbers/L.C.M = *

2 points

- G.C.D
- L.C.M
- H.C.F + L.C.M
- H.C.F \times L.C.M

Q5. The law which does not hold in multiplication of matrices is known as *

2 points

- distributive law
- Inverse law
- associative law
- commutative law

Q6. Factorization of $x^3 + 8$ is equal to *

2 points

- $(x + 2)(x^2 - x + 2)$
- $(x + 2)(x^2 + x - 2)$
- $(x + 2)(x^2 - 2x + 4)$
- $(x + 2)(x^2 + 2x + 4)$

Q7. The discriminant of $2x^2 + 5x - 1$ is *

2 points

- 25
- 30
- 33
- 35

Q8. The product of 3 cube roots of unity is/are *

2 points

- 2
- 3
- 4
- 1

Q9. Roots of the equation $9x^2 - 9x + 1 = 0$ are *

2 points

- real, equal
- real, unequal
- imaginary
- irrational

Q10. If $x < 0$ then $|x|$ is equal to *

2 points

- x
- 0
- 1
- x

Q11. $f(x)$ is a continuous function and takes only rational values. If $f(0) = 3$, then $f(2)$ equals *

2 points

- (a) 5
- (b) 0
- (c) 1
- (d) None of these

Q12. The value of derivative of $f(x) = |x - 1| + |x - 3|$ at $x = 2$ is *

2 points

- (a) -2
- (b) 0
- (c) 2
- (d) Not defined

Q13. If a function f is not defined at $x = a$ then the limit $\lim_{x \rightarrow a} f(x)$ as x approaches a never exists.

2 points

- True
- False

Q14. P is a point on the line segment joining the points $(3, 5, -1)$ and $(6, 3, -2)$. If y -coordinate of point P is 2, then its x -coordinate will be *

2 points

- (a) 2
- (b) $17/3$
- (c) $15/2$
- (d) -5

Q15. The equations of y-axis in space are *

2 points

- (a) $x = 0, y = 0$
- (b) $x = 0, z = 0$
- (c) $y = 0, z = 0$
- (d) $y = 0$

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Google Forms

Aptitude Test for BSc Sem 1 Mathematics 2020-21

Email address *

niyatithakur211@gmail.com

Name of Student *

ABHIPSA THAKUR .

Mobile Number *

9370529001

Email ID: *

niyatithakur211@gmail.com

Group *

- PCM
- PEM
- PCOM
- SCOM
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Google Forms

Aptitude Test for BSc Sem 1 Mathematics 2020-21

Email address *

siddharthumathe22348@gmail.com

Name of Student *

Siddharth Umathe

Mobile Number *

7020853476

Email ID: *

siddharthumathe22348@gmail.com

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