

Shri Ram Murti Smarak Trust

Bareilly - Luknow - Unnao



SRMS

SRMS EET

ENGINEERING ENTRANCE TEST

A pathway to get selected in

SRMS PROUD 100

and **Attractive Scholarships**
at

SHRI RAM MURTI SMARAK ENGINEERING INSTITUTIONS*

(APPROVED BY AICTE, NEW DELHI & AFFILIATED TO DR. APJAKTU, LUCKNOW)

**MERIT SCHOLARSHIP | INTERNATIONAL EXPOSURE
TINKERING LAB | INNOVATION & INCUBATION CELL
RESEARCH PROJECTS | PATENTS | HIGH-END PLACEMENT
UPTO CTC ₹19+ LPA | CENTER OF EXCELLENCE**

- * SHRI RAM MURTI SMARAK COLLEGE OF ENGINEERING & TECHNOLOGY, BAREILLY
- SHRI RAM MURTI SMARAK COLLEGE OF ENGINEERING, TECHNOLOGY & RESEARCH, BAREILLY
- SHRI RAM MURTI SMARAK COLLEGE OF ENGINEERING & TECHNOLOGY, UNNAO



EXHIBITING INDUSTRY READINESS



www.srms.ac.in

Online/Offline Registration Starts - 16th Feb., 2021
Online/Offline Registration Closes - 07th July, 2021

ABOUT SRMS



Core Inspiration behind SRMS Trust Success

Late Shri Ram Murti Ji

(08.02.1910 - 02.10.1988)

Former UP Minister & Former Parliamentarian

Shri Ram Murti Ji was a veteran freedom fighter. He was so much impressed with the philosophy of Gandhi Ji that he courted arrest while studying in Banaras Hindu University. He took part in all Satyagrahs and Quit India Movement launched by A.I.C.C. under the matured and dynamic leadership of Gandhi Ji. He was a true Gandhian. He was imprisoned several times during freedom struggle and was sentenced Kaal Kothri for two months. He had a patriotic soul and firm conviction for the mother land.

OUR MISSION

- To impart academic excellence in Technical Education.
- To inculcate high Moral, Ethical and Professional standards among our students & to improve their overall personality.
- To evolve the Institution to the status of a Deemed University.
- To strive incessantly to achieve the goals of the Institution.
- Our assets – Our Students.
- Our means – Our College Staff.

OUR VISION

- To help build India as a world leader in Technical Education.
- To establish & develop world class Institutions for overall growth in an era of globalization.
- To facilitate easy access to technical education to all sections of society.
- To develop and provide a professionally qualified technical workforce for augmenting the nation's human resources.

OUR VALUES

- Integrity
- Excellence
- Fairness
- Innovativeness





Shri Dev Murti Ji

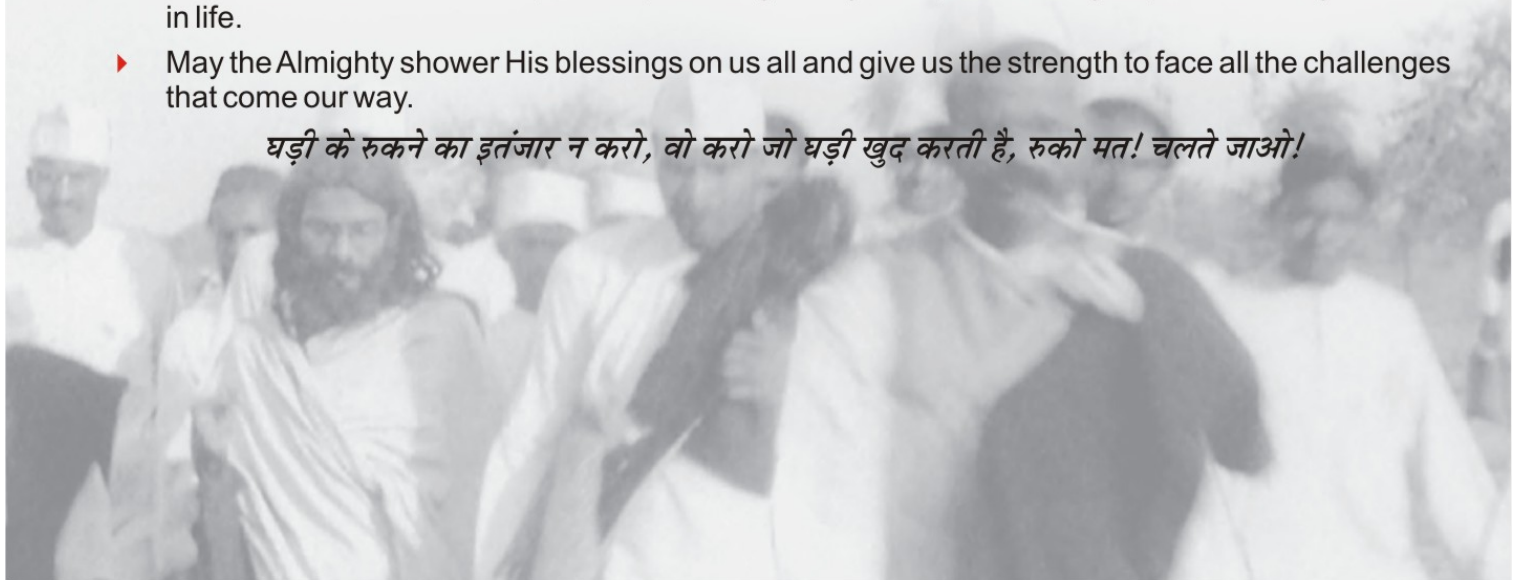
Founder & Managing Trustee, SRMS Trust



“ Let us smile and spread smiles
Through our services to people ”

- ▶ On behalf of SRMS I would like to congratulate the staff, the students and all the others directly and indirectly associated with SRMS Trust for the successful completion of a glorious tenure of 25 years.
- ▶ We at SRMS strive to educate students in a way that transforms them into leaders who can make a difference in the world. We strive to become the front runner in the field of education in India by attracting and nurturing the best talent and providing them a platform where they can strengthen and grow their core competencies and build their career as world class professionals.
- ▶ We have been in the field of education for almost 25 years and all this while I have had a dream. A dream of putting together an authentic, credible and vibrant education system in a region which is not so developed and privileged and which for quite some time has faced an unenviable problem of large number of students migrating to cities like Delhi, Pune etc I experience a feeling of great satisfaction in launching SHRI RAM MURTI SMARAK in Bareilly with the conviction that we are creating an educational hub which would not only provide opportunities to the talented students of Uttar Pradesh, Utrakhhand, Bihar, but would also attract the best talents of India.
- ▶ The greatest gift you can give your child is to be a good, supportive and an understanding parent. It is those who benefit from positive parenting who grow up with the right qualities and get ahead in life.
- ▶ May the Almighty shower His blessings on us all and give us the strength to face all the challenges that come our way.

घड़ी के रुकने का इंतजार न करो, वो करो जो घड़ी खुद करती है, रुको मत! चलते जाओ!



FOSTERING A CULTURE OF HONOURING MERIT

SRMS SCHOLARSHIP SCHEMES WORTH ₹ 3.5 CRORES

Major Criteria for Entry Level Scholarship Schemes

(Applicable for admissions in First Year of B.Tech. / MBA / MCA)

1. Rank of Entrance Exam (Organized at National / State Level)
2. Percentage of Marks secured in Qualifying Examination
3. SRMS EET-2021 & SRMS PROUD 100 (Only for Admissions in B.Tech. Programme)



ENTRY LEVEL SCHOLARSHIP FOR B.TECH.

On the basis of Entrance Exam organized at National / State Level		On the basis of Percentage of Marks secured in Qualifying Examination		On the basis of SRMS EET	
General Rank secured in JEE Mains	Scholarship (As the percentage of Tuition Fee)	Aggregate Percentage of Marks in PCM at 10+2 Level	Scholarship (As the percentage of Tuition Fee)	Percentage of marks secured	Scholarship (As the percentage of Tuition Fee)
1-20000	40%	Above 95%	50%	Above 75%	PROUD 100
20001-40000	30%	86%-95%	30%	71%-75%	30%
40001-60000	20%	81%-85%	20%	66%-70%	20%
60001-80000	10%	70%-80%	10%	60%-65%	10%
80001-100000	5%				

Note – Out of the above mentioned scholarships, a candidate can claim the benefit under at the most one criterion only.

ENTRY LEVEL SCHOLARSHIP FOR MBA & MCA

On the basis of Entrance Exam organized at National / State Level					On the basis of Percentage of Marks secured in Qualifying Examination	
Percentile secured in CAT	** Rank in State Entrance Test	Scholarship (As the percentage of Tuition Fee)	Percentile secured in MAT/ CMAT	Scholarship (As the percentage of Tuition Fee)	Aggregate Percentage of Marks secured at Graduation Level	Scholarship (As the percentage of Tuition Fee)
Above 80	1-500	40%	Above 90	25%	Above 85%	40%
76-80	501-1000	30%	86-90	20%	81%-85%	20%
71-75	1001-1500	20%	81-85	15%	76%-80%	10%
66-70	1501-2000	10%	76-80	10%	70%-75%	5%
60-65	2001-3000	5%	70-75	5%		

Note – Out of the above mentioned scholarships, a candidate can claim the benefit under at the most one criteria only.

**** As per the regulations of Dr.APJ Abdul Kalam Technical University, Lucknow)**



A pathway to get selected in



and **Attractive Scholarships**

SHRI RAM MURTI SMARAK ENGINEERING ENTRANCE TEST (SRMS EET)-2021

SRMS EET, a National Level Test conducted Online / Offline by **Shri Ram Murti Smarak Trust** is not only a pathway for selection in **SRMS PROUD100** but also offers Entry Level Scholarships for admissions against the management quota seats in B.Tech. Programme offered by SRMS Engineering Institutions*. The main objective of **SRMS EET** is to provide a platform for meritorious students regardless of any caste, creed or gender and enable them to realize their potential of becoming an innovative and creative leader in the world of technology.

ELIGIBILITY CRITERIA:

- A minimum of 60% aggregate marks in Physics, Chemistry and Mathematics in the 10+2 examination from a recognized board.
- Grace marks in any of the subjects at 10+2 level will lead to disqualification.

HOW TO APPLY?

Online Registration:

The students can register online through the following link wherein the Examination Charges of Rs. 100/= can be submitted online:

Offline Registration:

The application form can be downloaded through the following link:

The duly filled in form with the requisite documents, Examination Charges of Rs. 100/= (either in Cash or through DD in favor of SRMS TRUST payable at Bareilly) and affixed colored photograph can be submitted to the following address either personally or through Registered

Post:

**Co-ordinator
SRMS EET - 2021**

**Shri Ram Murti Smarak College of Engineering & Technology,
Ram Murti Puram, 13 Km, Bareilly-Nainital Road,
Bareilly-243 202 (U.P.)**

TEST PATTERN FOR SRMS EET-2021 :

- The test will comprise of a total number of 100 Multiple Choice Questions distributed equally under four different sections viz. Physics, Chemistry, Mathematics and General Aptitude.
- Maximum Time allotted to attempt the test will be 120 minutes.

Note - The practice test paper will soon be available on this page.

***SRMS Engineering Institutions** is a consortium of following three institutions established and run by Shri Ram Murti Smarak Trust:

- 1. Shri Ram Murti College of Engineering & Technology, Bareilly
(Estd. 1996, Aktu Code - 014)**
- 2. Shri Ram Murti College of Engineering, Technology & Research, Bareilly
(Estd. 2008, Aktu Code - 450)**
- 3. Shri Ram Murti College of Engineering & Technology, Unnao
(Estd. 2011, Aktu Code - 745)**

SRMS PROUD 100

SRMS PROUD 100 SCHEME (FOR ENGINEERING) :

In an effort to emphasize its vision, mission & the ideology of giving back to the community is supreme to the functioning of Shri Ram Murti Smarak Trust and it always strives to make a difference to lives of those who deserve it.

To make the quality technical education accessible to all strata of masses regardless of the cast, ideology, religion and economic class from academic session 2021 – 2022 onwards, the Trust has introduced a noble scheme entitled as SRMS PROUD 100 to bestow 100 meritorious, vigorous & commendable 10+2 students with special scholarship schemes

wherein they may pursue B.Tech program in the stream of Computer Science & Engineering, Electronics & Communication Engineering, Mechanical Engineering, Information Technology and Electrical & Electronics Engineering at following institutions established and run by the SRMS Trust:

- 1. Shri Ram Murti College of Engineering & Technology, Bareilly
(Estd. 1996, Aktu Code - 014)**
- 2. Shri Ram Murti College of Engineering, Technology & Research, Bareilly
(Estd. 2008, Aktu Code - 450)**
- 3. Shri Ram Murti College of Engineering & Technology, Unnao
(Estd. 2011, Aktu Code - 745)**

SELECTION CRITERIA:

The selection process will comprise of the following rounds to be conducted by SRMS Trust:

Round 1 – SRMS EET

Round 2 – Written exam

Round 3 – Personal Interview

The decision of Chairmen, SRMS Trust regarding selection of students under this scheme shall be final & binding.

BENEFITS UNDER PROUD 100 SCHEME FOR ENGINEERING :

- The students selected under this scheme will get 90% scholarship on tuition fees.
- Only 100 students will be selected under this programme. Rest students will get a scholarship of 50% on tuition fee.
- To enable the students to groom into Globally Competent Technocrats, the access to World Class Research & Development Facilities will be ensured with a special emphasis on Exposure to National / International Conferences.
- To enable the students to be industry-ready, a special emphasis will be laid on the Hands-On exposure to students through Centre of Excellence on emerging technologies.
- To inculcate Global Competencies among the students, State-of-Art Training & Development activities will regularly be carried out.
- Special preparation of students will be ensured for High-End Placements with leading MNCs on packages 12+ LPA & Reputed Competitive Examinations like IES, GATE, TOFEL, GRE & PSUs.
- To inculcate Industry Readiness among students, Industry Exposure will be ensured through Short – Term Training Programs at reputed industrial units.

TERMS AND CONDITIONS:

1. In case of withdrawal from the course due to any reason, the applicable scholarship under this scheme will automatically be cancelled and the candidate has to submit the full course fee as applicable for the college.
2. For availing the scholarship for IInd year and onwards student has to score 86% & above marks, failing to do so will result in closure of scholarship and will be treated as regular student.

REAL LIFE PROJECTS BY OUR STUDENTS...

We at SRMS promotes our students to come up with innovative ideas and we provide them a platform to change their dreams into reality.



IMPECCABLE PLACEMENT RECORDS

“The support system in the form of faculty, staff, alumni and seniors, here has been instrumental in providing me all-round development opportunities through diverse learning and knowledge sources, which have helped me, broaden my horizons.”

Simran Chhabra

B.Tech. - CS (Batch-2016-20), SRMS CET, Bareilly
(Placed with **amazon**.INC.)



91%
STUDENT PLACED
IN COMPANIES
OF GLOBAL REPUTE

135+
RECRUITERS

HIGHEST PACKAGE **Rs.19 LPA**
AVERAGE PACKAGE **Rs. 4.4 LPA**

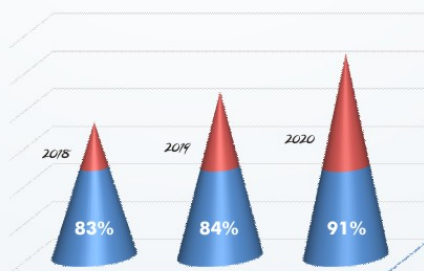
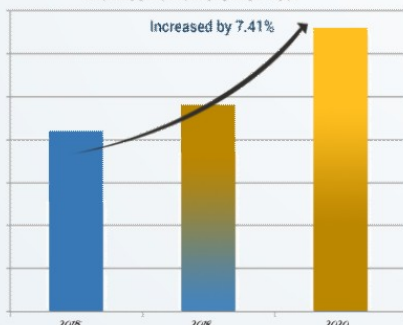


Our focus is to give Practical teaching to our students to make them ready for the corporate world from day one they passout from SRMS.

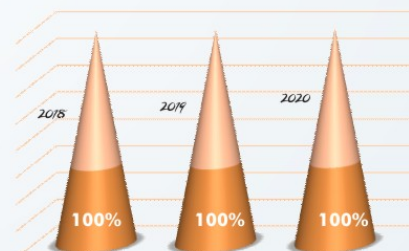
Shri Aditya Murti, Secretary, SRMS Trust

PLACEMENT STATISTICS 2020

Number of Offers Per Year



UG PLACEMENTS 2020
B.Tech & B. Pharma



PG PLACEMENTS 2020
MBA & MCA

MBA 2018-20

100% Placements Record
More than 50% students placed with multiple offers



Asahi India Glass Ltd.
and many more...

BECOME A PART
OF A GLOBAL
NETWORK OF

14,000+
ALUMNI



Access a network of mentors, career guides and friends that can serve you for a life-time.

**Mr. Kushwaha
Manish Kaushal**
B.TECH. - CS, 1996
Director, Intel Corporation,
Bangalore

Mr. Jagjeet Singh
B.Tech. - EE, 1998
Head, OSS, Tech Mahindra,
Technical Design Authority,
Three UK,
Reading, UK

Mr. Abhishek Shukla
B.Tech. - CS, 1999
Secretary, Indian Embassy,
Beijing (China)

Mr. Neelabh Sunny
MCA, 2002
Project Manager,
Adobe Systems Inc.,
Gurgaon

Mr. Gaurav Agarwal
MBA, 1996
AVP, HDFC Bank,
Bangalore

**Mr. Tahzeebul Hasan
Siddiqui**
B.Pharm. 2000 Batch,
Vice President,
Belwidare Health Care,
New Delhi

Mr. M.P.R.N Murti
B.Tech. - CS, 2002
Principal Member of
Technical Staff, Oracle India,
Hyderabad

Mr. Mahipal Singh
B.Tech. - EE 2000, IES
Senior Divisional Signal &
Telecom Engineer,
Indian Railways, Lucknow

Mr. Neeraj Kumar
B.Tech. - EE, 1999
Senior Firmware Engineer,
Qualcomm Inc., San Diego,
California, USA

Mr. Praveen Singh
B.Tech. - EC, 1999
Project Manager, AT & T,
St. Francisco, USA

Mr. Anupam Singh
Vice President &
Global Head, BPS Analytics,
Tech Mahindra,
Gurgaon

**Mr. Raj Gaurav
Singh**
B.Tech. - ME, 2004
Manager,
Mumbai



“As an institute with its diverse methods of education, grooming and personality development, CET puts you on par with the best internationally.”

Mr. Manish Kumar
SRMS CET, Batch of 1999
Principal Associate, Infosys Ltd. Bangalore

CAMPUS LIFE....



DEVELOPING LIFE SKILLS THROUGH SPORTS & CULTURAL ACTIVITIES



Football Academy



Athlete Academy



Cricket Academy



Kho kho



Chess



Badminton Academy



Cultural Activities



Drama & Theatre



Music



Table Tennis Academy



Volleyball Academy



Dance



Fine Arts



Basketball Academy



GYM

Cultural Activities

FOSTERING INDUSTRY READINESS

Centre of
Excellence

Innovation & Incubation Cell

Industrial Internet of Things (IIoT)

Design Softwares

International conference on
“Emerging Issues on
Contemporary Business Practices
in the Era of Intelligence”

International Global Exposure

Innovation &
Incubation Cell

Idea Lab
Tinkering Lab
Biomaterials & Tissue Engineering
Lab



Industry Exposure
Programme

MOUs with
Corporate Houses



SHRI RAM MURTI SMARAK
ENGINEERING INSTITUTIONS
BAREILLY-UNNAO

e-LAB

PRESENTING
Coding hub - e-Lab

An online platform for practicing coding to improve your skills.
"Any fool can write code that a computer can understand. Good programmers
write code that humans can understand." - Martin Fowler

Login

e-Lab
(Competitive Coding Platform)

Interdisciplinary
Live Projects



PERIODIC TABLE

Periodic Table of the Elements

1 1A 1A	2 2A 2A	3 3A 3A	4 4A 4A	5 5A 5A	6 6A 6A	7 7A 7A	8 8A 8A	9 9A 9A	10 10A 10A	11 11A 11A	12 12A 12A	13 13A 13A	14 14A 14A	15 15A 15A	16 16A 16A	17 17A 17A	18 18A 18A
1 H Hydrogen 1.008	2 He Helium 4.003	3 Li Lithium 6.941	4 Be Beryllium 9.012	5 B Boron 10.811	6 C Carbon 12.011	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998	10 Ne Neon 20.180	11 Na Sodium 22.990	12 Mg Magnesium 24.305	13 Al Aluminum 26.982	14 Si Silicon 28.086	15 P Phosphorus 30.974	16 S Sulfur 32.066	17 Cl Chlorine 35.453	18 Ar Argon 39.948
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.631	33 As Arsenic 74.922	34 Se Selenium 78.971	35 Br Bromine 79.904	36 Kr Krypton 84.798
37 Rb Rubidium 84.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.95	43 Tc Technetium 98.907	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.906	46 Pd Palladium 106.42	47 Ag Silver 107.868	48 Cd Cadmium 112.414	49 In Indium 114.818	50 Sn Tin 118.711	51 Sb Antimony 121.760	52 Te Tellurium 127.6	53 I Iodine 126.904	54 Xe Xenon 131.294
55 Cs Cesium 132.905	56 Ba Barium 137.328	57-71 Lanthanide Series	72 Hf Hafnium 178.49	73 Ta Tantalum 180.948	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.217	78 Pt Platinum 195.085	79 Au Gold 196.967	80 Hg Mercury 200.592	81 Tl Thallium 204.383	82 Pb Lead 207.2	83 Bi Bismuth 208.980	84 Po Polonium [209]	85 At Astatine 209	86 Rn Radon 222
87 Fr Francium 223	88 Ra Radium 226	89-103 Actinide Series	104 Rf Rutherfordium [261]	105 Db Dubnium [262]	106 Sg Seaborgium [266]	107 Bh Bohrium [264]	108 Hs Hassium [269]	109 Mt Meitnerium [268]	110 Ds Darmstadtium [269]	111 Rg Roentgenium [272]	112 Cn Copernicium [277]	113 Nh Nihonium [283]	114 Fl Flerovium [289]	115 Mc Moscovium [289]	116 Lv Livermorium [293]	117 Ts Tennessine [294]	118 Og Oganesson [294]

57 La Lanthanum 138.905	58 Ce Cerium 140.116	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.243	61 Pm Promethium [144.913]	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.500	67 Ho Holmium 164.930	68 Er Erbium 167.259	69 Tm Thulium 168.934	70 Yb Ytterbium 173.055	71 Lu Lutetium 174.967
89 Ac Actinium 227.028	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium 244.064	95 Am Americium 243.061	96 Cm Curium 247.070	97 Bk Berkelium 247.070	98 Cf Californium 251.080	99 Es Einsteinium [254]	100 Fm Fermium 257.095	101 Md Mendelevium 258.1	102 No Nobelium 259.101	103 Lr Lawrencium [262]

PHYSICS FORMULAS

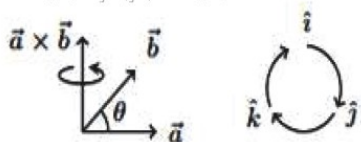
VECTOR:

Notation: $\vec{A} = a_x \hat{i} + a_y \hat{j} + a_z \hat{k}$

Magnitude: $a = |\vec{a}| = \sqrt{a_x^2 + a_y^2 + a_z^2}$

Dot product: $\vec{a} \cdot \vec{b} = a_x b_x + a_y b_y + a_z b_z = ab \cos \theta$

Cross Product

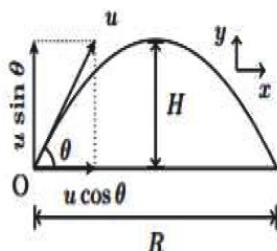


$\vec{a} \times \vec{b} = (a_y b_z - a_z b_y) \hat{i} + (a_z b_x - a_x b_z) \hat{j} + (a_x b_y - a_y b_x) \hat{k}$

$|\vec{a} \times \vec{b}| = ab \sin \theta$

PROJECTILE MOTION

Projectile Motion:



$$x = ut \cos \theta, \quad y = ut \sin \theta - \frac{1}{2}gt^2$$

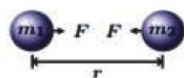
$$y = x \tan \theta - \frac{g}{2u^2 \cos^2 \theta} x^2$$

$$T = \frac{2u \sin \theta}{g}, \quad R = \frac{u^2 \sin 2\theta}{g}, \quad H = \frac{u^2 \sin^2 \theta}{2g}$$

GRAVITATIONAL FIELD

Gravitational force: $F = G \frac{m_1 m_2}{r^2}$

Potential energy: $U = \frac{GMm}{r}$



Gravitational acceleration: $g = \frac{GM}{R^2}$

EQUATION OF MOTION

Average and Instantaneous Vel. and Accel.:

$$\vec{u}_{av} = \Delta \vec{r} / \Delta t, \quad \vec{u}_{inst} = d\vec{r} / dt,$$

$$\vec{a}_{av} = \Delta \vec{v} / \Delta t, \quad \vec{a}_{inst} = d\vec{v} / dt,$$

Motion in a straight line with constant a:

$$v = u + at, \quad s = ut + \frac{1}{2}at^2, \quad v^2 - u^2 = 2as$$

Relative Velocity: $\vec{u}_{A/B} = \vec{u}_A - \vec{u}_B$

WORK

Work: $W = \vec{F} \cdot \vec{S} = FS \cos \theta, \quad W = \int \vec{F} \cdot d\vec{S}$

Kinetic energy: $K = \frac{1}{2}mv^2 = \frac{p^2}{2m}$

Potential energy: $F = -\partial U / \partial x$ for conservative forces.

$$U_{\text{gravitational}} = mgh, \quad U_{\text{spring}} = \frac{1}{2}kx^2$$

Work done by conservative forces is path independent and depends only on initial and final points:

$$\oint \vec{F}_{\text{conservative}} \cdot d\vec{r} = 0.$$

Work-energy theorem: $W = \Delta K$

Mechanical energy: $E = U + K$. Conserved if forces are conservative in nature.

Power $P_{av} = \frac{\Delta W}{\Delta t}, \quad P_{inst} = \vec{F} \cdot \vec{v}$

WAVE AND OSCILLATION

General equation of wave: $\frac{\partial^2 y}{\partial x^2} = \frac{1}{u^2} \frac{\partial^2 y}{\partial t^2}$

Notation: Amplitude A, Frequency ν , Wavelength λ , Period T, Angular Frequency ω , Wave Number k,

$$T = \frac{1}{\nu} = \frac{2\pi}{\omega}, \quad u = \nu\lambda, \quad k = \frac{2\pi}{\lambda}$$

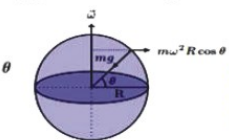
Variation of g with depth: $g_{\text{inside}} \approx g \left(1 - \frac{2h}{R}\right)$

Variation of g with height: $g_{\text{outside}} \approx g \left(1 - \frac{h}{R}\right)$

Effect of non-spherical earth shape on g:

$g_{\text{at pole}} > g_{\text{at equator}} \quad (\because R_e - R_p \approx 21 \text{ km})$

Effect of earth rotation on apparent weight:

$$mg'_\theta = mg - m\omega^2 R \cos^2 \theta$$


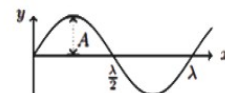
note: $v_o = \sqrt{\frac{GM}{R}}$

Orbital velocity of satellite: $v_o = \sqrt{\frac{GM}{R}}$

Progressive wave travelling with speed v:

$$y = f(t - x/u), \square +x; \quad y = f(t + x/u), \square -x$$

Progressive sine wave:



$$y = A \sin(kx - wt) = A \sin\left(2\pi\left(\frac{x}{\lambda} - t/T\right)\right)$$

SOUND

Displacement wave: $s = s_0 \sin w(t - x/u)$

Pressure wave:

$$p = p_0 \cos w(t - x/u), \quad p_0 = (Bw/u) S_0$$

Speed of sound waves:

$$u_{\text{liquid}} = \sqrt{\frac{B}{\rho}}, \quad u_{\text{solid}} = \sqrt{\frac{Y}{\rho}}, \quad u_{\text{gas}} = \sqrt{\frac{\gamma P}{\rho}}$$

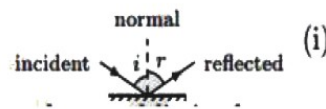
$$\text{Intensity: } I = \frac{2\pi^2 B}{u} S_0^2 v^2 = \frac{p_0^2 u}{2B} = \frac{p_0^2}{2\rho u}$$

Standing longitudinal waves:

$$p_1 = p_0 \sin w(t - x/u), \quad p_2 = p_0 \sin w(t + x/u)$$

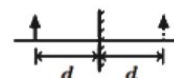
$$p = p_1 + p_2 = 2p_0 \cos(kx) \sin(wt)$$

OPTICS



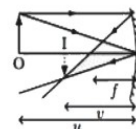
Laws of refraction:

Incident ray, reflected ray, and normal lie in the same plane (ii) $\angle i = \angle r$



Plane mirror:

- (i) the image and the object are equidistant from mirror (ii) virtual image of real object.



Spherical Mirror:

1. Focal length: $f = R/2$
2. Mirror equation: $\frac{1}{v} + \frac{1}{u} = \frac{1}{f}$
3. Magnification: $m = -\frac{v}{u}$

HEAT AND THERMODYNAMICS:

Temp. scales: $F = 32 + \frac{9}{5}C$, $K = C + 273.16$

Ideal gas equation: $pV = nRT$, n: number of moles

HEAT AND THERMODYNAMICS:

Specific heat: $s = \frac{Q}{m\Delta T}$

Latent heat: $L = Q/m$

Van der Waals equation: $\left(p + \frac{a}{V^2}\right)(V - b) = nRT$

Thermal expansion:

$$L = L_0(1 + \alpha \Delta T),$$

$$A = A_0(1 + \beta \Delta T), V = V_0(1 + \gamma \Delta T), \gamma = 2\beta = 3\alpha,$$

Thermal stress of a material: $\frac{F}{A} = Y \frac{\Delta l}{l}$

Specify heat at constant volume: $C_v = \frac{\Delta Q}{n \Delta T} \Big|_V$

Specify heat at constant pressure:

$$C_p = \frac{\Delta Q}{n \Delta T} \Big|_p$$

Relation between C_p and C_v : $C_p - C_v = R$

Ratio of specific heats: $\gamma = C_p / C_v$

Relation between U and C_v : $\Delta U = n C_v \Delta T$

Specific heat of gas mixture:

$$C_v = \frac{n_1 C_{v1} + n_2 C_{v2}}{n_1 + n_2}, \quad \gamma = \frac{n_1 C_{p1} + n_2 C_{p2}}{n_1 C_{v1} + n_2 C_{v2}}$$

Molar internal energy of an ideal gas:

$$U = \frac{f}{2} RT, \quad f = 3 \text{ for monatomic and } f = 5 \text{ for diatomic gas.}$$

ELECTROSTATICS

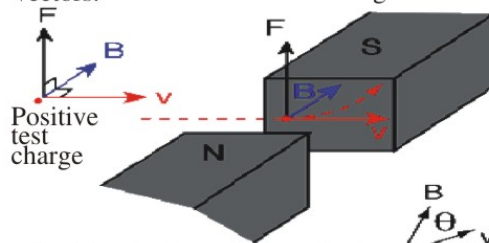
Electrostatics: Coulomb's Law

	Point Charge	Charge between sheets
Potential V	$q / 4\pi\epsilon r$	V
Electric Field V/M	$q / 4\pi\epsilon r^2$	V/d
Force N	$q_1 q_2 / 4\pi\epsilon r^2$	q V/d
Work J	$q_1 q_2 / 4\pi\epsilon r$	qV

FORCE ON MOVING CHARGE PARTICLE

In the illustration, F , B , and V are three mutually perpendicular vectors.

Position of charge moving through magnetic field

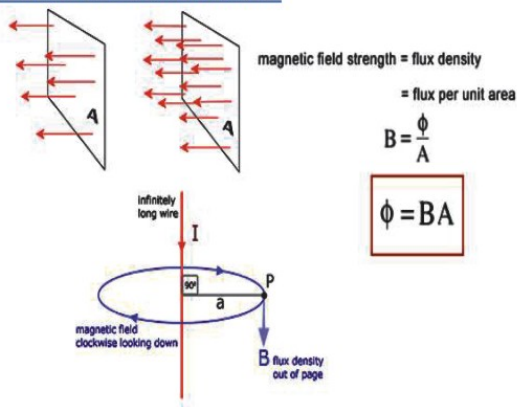


The force is always perpendicular to both the magnetic field and velocity,

$$F = qvB \sin \theta$$

or $F = qvB$ if $\theta = 90$

MAGNETIC FLUX DENSITY



BIO-SAVART LAW

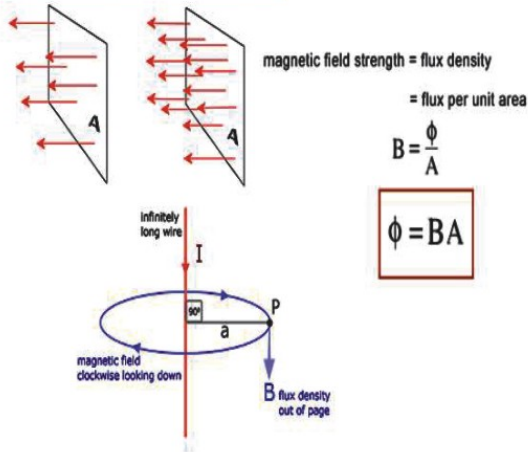
Magnetostatics-Biot-Savart's Law

Shortly following Oersted's discovery that currents produce magnetic fields, Jean Baptiste Biot (1774-1862) and Felix Savart (1791-1841) arrived at a mathematical relation between the field and current.

The Law of Biot-Savart is

$$dH_2 = \frac{I_1 dL_1 \times a_{12}}{4\pi R_{12}^2} \quad (\text{A/m})$$

MAGNETIC FLUX DENSITY



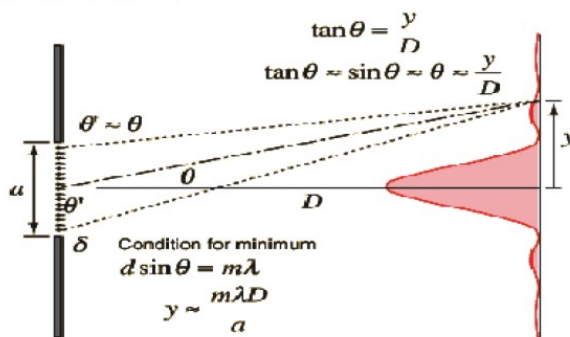
To get the total field resulting from a current, you can sum the contributions from each segment by integrating.

$$dH_2 = \int \frac{IdL_1 \times a_R}{4\pi R^2} \quad (\text{A/m})$$

Note: The Biot-Savart Law is analogous to the Coulomb's law equation for the electric field resulting from a differential charge

$$dE_2 = \frac{dQ_1 a_{12}}{4\pi\epsilon R_{12}^2}$$

INTERFERENCE:



DIFFRACTION:

Diffraction refers to phenomena that occur when a wave encounters an obstacle or a narrow opening. It is defined as the bending of waves around the corners of an obstacle or through an aperture into the region of geometrical shadow of the obstacle/aperture. The diffracting object or aperture effectively becomes a secondary source of the propagating wave.

ASTRONOMICAL TELESCOPE

- Objective is a convex lens of large aperture and large focal length whereas eye piece is also a convex lens of smaller focal length.
- When final image is formed at distance of distinct vision, the magnifying power is given by

$$M = \frac{-f_o}{f_e} \left(1 + \frac{f_e}{D} \right)$$

- When final image is formed at Infinity (telescope is said to be at normal adjustment), the magnifying power is given as

$$M = \frac{-f_o}{f_e}$$

POLARIZATION

POLARIZATION: Light, viewed classically, is a transverse electromagnetic wave. Namely, the underlying oscillation (in this case oscillating electric and magnetic fields) is along directions perpendicular to the direction of propagation. This is in contrast to longitudinal waves, such as sound waves, in which the oscillation is confined to the direction of propagation. Light is said to be linearly polarized if its oscillation is confined to one direction (the direction of the oscillation of the electric field is defined as the direction of polarization).

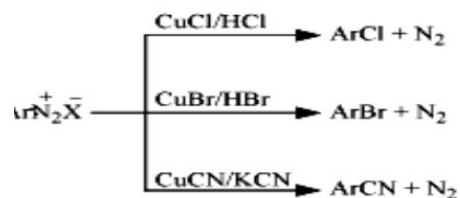
FREQUENTLY USED CONSTANTS

Quantity	Symbol	Value	Unit
Speed of light in vacuum	C, C_0	299792458	Ms^{-1}
magnetic constant	μ_0	$4\pi \times 10^{-7}$	NA^{-2}
Electric constant $1/\mu_0 c^2$	ϵ_0	$8.854187817... \times 10^{-12}$	Fm^{-1}
Newtonian constant of gravitation	G	$6.6742(10) \times 10^{-11}$	$\text{M}^3 \text{kg}^{-1} \text{s}^{-2}$
Planck constant	h	$6.6260693(11) \times 10^{-34}$	Js
elementary charge	e	1.602176634	C
Electron mass	m_e	$9.1093826(16) \times 10^{-31}$	Kg
Proton mass	m_p	$1.67262171(29) \times 10^{-27}$	Kg
Proton-electron mass ration	M_p/m_e	1836.15267261(85)	
Rydberg constant $\alpha^2 m_e c / 2h$	R_∞	10973731.568525(73)	m^{-1}
Avogadro constant	N_A, L	$6.0221415(10) \times 10^{23}$	mol^{-1}
Faraday constant $N_A e$	F	96 485.3383(83)	C mol^{-1}
Molar gas constant	R	8.314 472(15)	$\text{J mol}^{-1} \text{K}^{-1}$
Boltzmann constant R/N_A	k	$1.380 6505(24) \times 10^{-23}$	J K^{-1}
Stefan-Boltzmann constant $\pi^2/60 k^4/h^3 c^2$	σ	$5.670400(40) \times 10^{-8}$	$\text{Wm}^{-2} \text{K}^{-4}$
Non SI units accepted for use with the SI			
Electron vole: $(e/C)\text{J}$ atomic mass unit	eV	$1.602 17653(14) \times 10^{-10}$	J
$1 \text{ u} = m_u = \frac{1}{N_A} m(^{12}\text{C}) = 10^{-3} \text{ kg mol}^{-1}/N_A$	u	$1.660 538 86(28) \times 10^{-27}$	kg

CHEMISTRY FORMULAS

Sandmeyer Reaction:

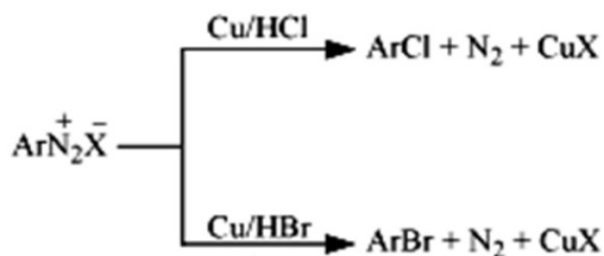
The Sandmeyer reaction is a chemical reaction which is used to synthesize aryl halides from aryl diazonium salts. This reaction is a method for substitution of an aromatic amino group by preparing diazonium salt that is followed by its displacement and copper salts often catalyze it.



The Br, Cl and Cn nucleophiles can be easily present in the benzene ring of benzene diazonium salt in the presence of Copper ion.

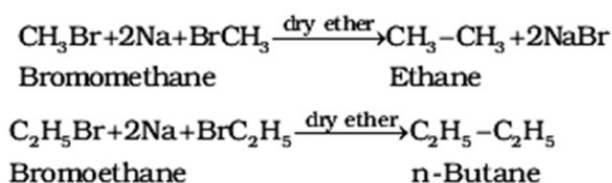
Gattermann Reaction:

Bromine and Chlorine can be present in the benzene ring by preparing the benzene diazonium salt solution with similar halogen acid present with copper powder. This is the Gattermann Reaction.



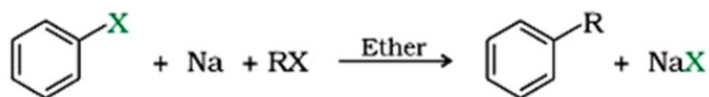
Wurtz Reaction:

When Alkyl halides get reacted with sodium with dry ether, we get hydrocarbons that include the double number of carbon atoms present in the halide. This is known as the Wurtz Reaction



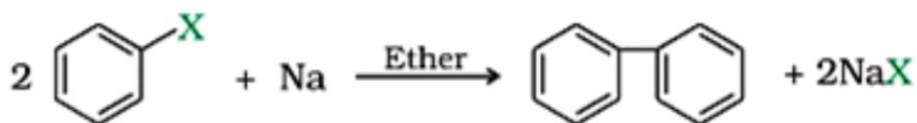
Wurtz-Fittig Reaction:

When a mixture of alkyl halide and aryl halide gets treated with sodium in dry ether, we get an alkyl arene.



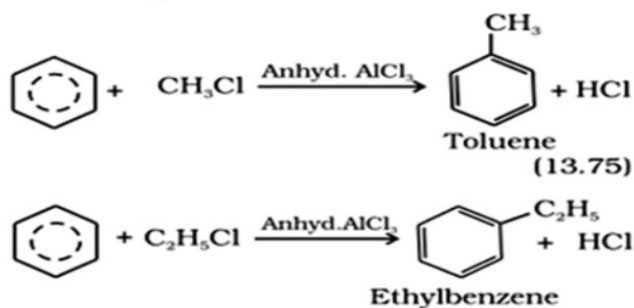
Fittig Reaction:

Aryl halides prepared with sodium in dry ether to give analogous compounds where two aryl groups joined.

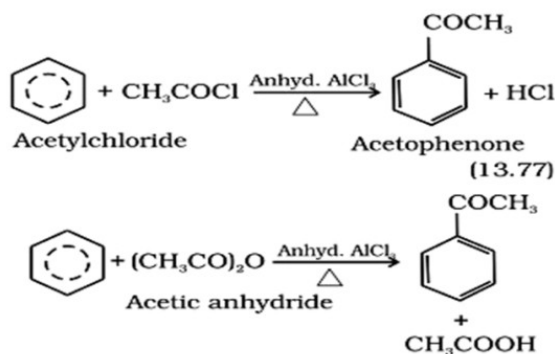


Friedel-Crafts alkylation Reaction:

Benzene is prepared with an alkyl halide in the presence of anhydrous aluminum chloride to give Alkylbenzene.

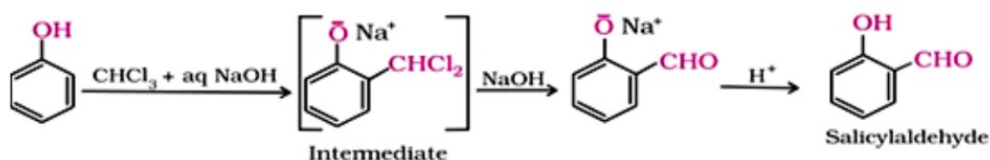


We get acyl benzene when an acyl halide is reacted with benzene in the presence of Lewis acids.



Reimer-Tiemann Reaction:

When preparing phenol with chloroform in the presence of sodium hydroxide, -CHO group is present at the ortho position of the benzene ring which results into salicylaldehyde.



MATHEMATICS FORMULAS

1. Let A, B and C be the matrices and U universal set

$$n(A \cup B \cup C) = n(A) + n(B) + n(C) - n(A \cap B) - n(A \cap C) - n(C \cap B) + n(A \cap B \cap C)$$
2. $n(A \cup B) = n(A) + n(B) - n(A \cap B)$
3. Let $ax^2 + bx + c = 0$ be the quadratic equation, Its solution is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
4. Let α and β roots of quadratic equation $ax^2 + bx + c = 0$ the
 (i) sum of roots $\alpha + \beta = -\frac{b}{a}$ (ii) Product of roots $\alpha\beta = \frac{c}{a}$
5. Permutation $P(n, r) = \frac{n!}{n-r!}$ where $n!$ is factorial.
6. Combination $C(n, r) = \frac{n!}{r!(n-r)!}$
7. Binomial expansion of

$$(x + a)^n = C(n, 0)x^n + C(n, 1)x^{n-1}a + C(n, 2)x^{n-2}a^2 + \dots + C(n, n)a^n$$
8. Arithmetic Progression :
 (i) nth term $T_n = a + (n - 1)d$ where a is first term and d is common difference.
 (ii) Sum of nth terms $S_n = \frac{n}{2} (2a + (n - 1)d)$
9. Geometric Progression:
 (i) nth term $T_n = ar^{n-1}$ where a is first term and r is common ratio.
 (ii) Sum of nth terms $S_n = a \left(\frac{r^n - 1}{r - 1} \right)$ for $r > 1$
 (iii) Sum of nth terms $S_n = a \left(\frac{1 - r^n}{1 - r} \right)$ for $r < 1$
10. Distance between two points (x_1, y_1) and (x_2, y_2) is $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
11. Area of triangle whose vertices are (x_1, y_1) , (x_2, y_2) and (x_3, y_3) is $\frac{1}{2} \begin{vmatrix} x_1 & y_1 & 1 \\ x_2 & y_2 & 1 \\ x_3 & y_3 & 1 \end{vmatrix}$
12. Three points $A(x_1, y_1)$, $B(x_2, y_2)$ and $C(x_3, y_3)$ are collinear if $\begin{vmatrix} x_1 & y_1 & 1 \\ x_2 & y_2 & 1 \\ x_3 & y_3 & 1 \end{vmatrix} = 0$
13. The coordinates of the point P which divides the line segment joining the points $A(x_1, y_1)$ and $B(x_2, y_2)$ internally in the ratio m: n are $\left(\frac{mx_2 + nx_1}{m+n}, \frac{my_2 + ny_1}{m+n} \right)$
14. The coordinates of the centroid of the triangle whose vertices are (x_1, y_1) , (x_2, y_2) and (x_3, y_3) are $\left(\frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3} \right)$
15. The equation of line passing through the points (x_1, y_1) , (x_2, y_2) is given by $\frac{y - y_1}{x - x_1} = \frac{y_2 - y_1}{x_2 - x_1}$
16. An acute angle θ between two lines having slopes m_1 and m_2 is given by $\tan \theta = \left| \frac{m_1 - m_2}{1 + m_1 m_2} \right|$
17. The equation of line parallel to line $ax + by + c = 0$ is $ax + by + \lambda = 0$.
18. The equation of line perpendicular to line $ax + by + c = 0$ is $bx - ay + \lambda = 0$.

19. The equation of circle with radius r and centre at (h,k) is $(x - h)^2 + (y - k)^2 = r^2$

20. Four standard form of parabola:

	$y^2 = 4ax$	$y^2 = -4ax$	$x^2 = 4ay$	$x^2 = -4ay$
Coordinates of vertex	(0,0)	(0,0)	(0,0)	(0,0)
Coordinates of focus	(a,0)	(-a,0)	(0,a)	(0,-a)
Length of latus rectum	4a	4a	4a	4a

21. Two standard form of ellipse:

	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1 \quad a > b$	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1 \quad a < b$
Coordinates of centre	(0,0)	(0,0)
eccentricity	$e = \sqrt{1 - \frac{b^2}{a^2}}$	$e = \sqrt{1 - \frac{a^2}{b^2}}$
Length of latus rectum	$\frac{2b^2}{a}$	$\frac{2a^2}{b}$

22. Two standard form of hyperbola:

	$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$	$\frac{y^2}{b^2} - \frac{x^2}{a^2} = 1$
Coordinates of centre	(0,0)	(0,0)
eccentricity	$e = \sqrt{1 + \frac{b^2}{a^2}}$	$e = \sqrt{1 + \frac{a^2}{b^2}}$
Length of latus rectum	$\frac{2b^2}{a}$	$\frac{2a^2}{b}$

23. Limit : Left Limit $\lim_{h \rightarrow 0} f(a - h) =$ Right limit $\lim_{h \rightarrow 0} f(a + h)$

24. Continuity: Left Limit $\lim_{h \rightarrow 0} f(a - h) =$ Right limit $\lim_{h \rightarrow 0} f(a + h) = f(a)$.

25. Differentiation: Left derivative $\lim_{h \rightarrow 0} \frac{f(a-h)-f(a)}{-h} =$ Right derivative $\lim_{h \rightarrow 0} \frac{f(a-h)+f(a)}{h}$

26. Product rule of derivative . Suppose u and v are function of x .

$$\frac{d}{dx} uv = v \frac{du}{dx} + u \frac{dv}{dx}$$

27. Quotient rule of derivative $\frac{d}{dx} \frac{u}{v} = \frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$

28. $\frac{d}{dx} x^n = nx^{n-1}$, $\frac{d}{dx} \sin x = \cos x$, $\frac{d}{dx} \cos x = -\sin x$, $\frac{d}{dx} \tan x = \sec^2 x$

$$\frac{d}{dx} \cot x = -\operatorname{cosec}^2 x, \quad \frac{d}{dx} \operatorname{cosec} x = -\operatorname{cosec} x \cot x, \quad \frac{d}{dx} \sec x = \sec x \tan x$$

$$\frac{d}{dx} (\sin^{-1} x) = \frac{1}{\sqrt{1-x^2}}, \quad \frac{d}{dx} (\cos^{-1} x) = \frac{-1}{\sqrt{1-x^2}}, \quad \frac{d}{dx} (\tan^{-1} x) = \frac{1}{1+x^2}, \quad \frac{d}{dx} (\cot^{-1} x) = \frac{-1}{1+x^2}$$

$$\frac{d}{dx} (\sec^{-1} x) = \frac{1}{x\sqrt{x^2-1}}, \quad \frac{d}{dx} (\operatorname{cosec}^{-1} x) = \frac{-1}{x\sqrt{x^2-1}}, \quad \frac{d}{dx} e^x = e^x, \quad \frac{d}{dx} \log_e x = \frac{1}{x}$$

MATHEMATICS FORMULAS

$$29. \int x^n dx = \frac{x^{n+1}}{n+1} + c, \quad \int \frac{1}{x} dx = \log_e x + c, \quad \int \sin x dx = -\cos x + c, \quad \int \cos x dx = \sin x + c$$

$$\int \tan x dx = \log \sec x + c, \quad \int \cot x dx = \log \sin x + c, \quad \int \sec x dx = \log (\sec x + \tan x) + c$$

$$\int \operatorname{cosec} x dx = \log (\operatorname{cosec} x - \cot x) + c, \quad \int \sec x \tan x dx = \sec x + c$$

$$\int \operatorname{cosec} x \cot x dx = -\operatorname{cosec} x + c$$

$$30. \int \frac{1}{\sqrt{a^2 - x^2}} dx = \sin^{-1} \left(\frac{x}{a} \right) + c, \quad \int \frac{-1}{\sqrt{a^2 - x^2}} dx = \cos^{-1} \left(\frac{x}{a} \right) + c, \quad \int \frac{1}{x^2 + a^2} dx = \frac{1}{a} \tan^{-1} \left(\frac{x}{a} \right) + c,$$

$$\int \frac{-1}{x^2 + a^2} dx = \frac{1}{a} \cot^{-1} \left(\frac{x}{a} \right) + c, \quad \int \frac{1}{a^2 - x^2} dx = \frac{1}{2a} \log \left(\frac{a+x}{a-x} \right) + c,$$

$$\int \frac{1}{x^2 - a^2} dx = \frac{1}{2a} \log \left(\frac{a-x}{a+x} \right) + c$$

$$31. \int \sqrt{a^2 - x^2} dx = \frac{1}{2} x \sqrt{a^2 - x^2} + \frac{1}{2} a^2 \sin^{-1} \left(\frac{x}{a} \right) + c$$

$$\int \sqrt{a^2 + x^2} dx = \frac{1}{2} x \sqrt{a^2 + x^2} + \frac{1}{2} a^2 \log (x + \sqrt{a^2 + x^2}) + c.$$

$$\int \sqrt{x^2 - a^2} dx = \frac{1}{2} x \sqrt{x^2 - a^2} - \frac{1}{2} a^2 \log (x + \sqrt{x^2 - a^2}) + c.$$

$$32. \sin 2x = 2 \sin x \cos x, \quad \cos 2x = 2 \cos^2 x - 1 = 1 - 2 \sin^2 x = \frac{1 - \tan^2 x}{1 + \tan^2 x}$$

$$33. \sin 3x = 3 \sin x - 4 \sin^3 x, \quad \cos 3x = 4 \cos^3 x - 3 \cos x, \quad \tan 3x = \frac{3 \tan x - \tan^3 x}{1 - 3 \tan^2 x}$$

$$34. \sin C + \sin D = 2 \sin \frac{C+D}{2} \cos \frac{C-D}{2}, \quad \sin C - \sin D = 2 \cos \frac{C+D}{2} \sin \frac{C-D}{2}$$

$$\cos C + \cos D = 2 \cos \frac{C+D}{2} \cos \frac{C-D}{2}, \quad \cos C - \cos D = 2 \sin \frac{C+D}{2} \sin \frac{D-C}{2}$$

$$35. 2 \cos A \cos B = \cos(A+B) + \cos(A-B), \quad 2 \sin A \sin B = \cos(A-B) - \cos(A+B)$$

$$2 \sin A \cos B = \sin(A+B) + \sin(A-B), \quad 2 \cos A \sin B = \sin(A+B) - \sin(A-B)$$

$$36. \sin(A+B) = \sin A \cos B + \cos A \sin B, \quad \sin(A-B) = \sin A \cos B - \cos A \sin B$$

$$\cos(A+B) = \cos A \cos B - \sin A \sin B, \quad \cos(A-B) = \cos A \cos B + \sin A \sin B$$

$$37. \cos^2 x + \sin^2 x = 1, \quad \sec^2 x - \tan^2 x = 1, \quad 1 + \cot^2 x = \operatorname{cosec}^2 x$$

$$38. \vec{a} \cdot \vec{b} = |\vec{b}| |\vec{a}| \cos \theta, \quad \vec{a} \times \vec{b} = |\vec{b}| |\vec{a}| \sin \theta \hat{n}$$

$$39. \vec{a} \cdot (\vec{b} \times \vec{c}) = [\vec{a} \ \vec{b} \ \vec{c}] = \begin{vmatrix} a_1 & a_2 & a_3 \\ b_1 & b_2 & b_3 \\ c_1 & c_2 & c_3 \end{vmatrix}$$

$$40. \text{If } \vec{a} \cdot (\vec{b} \times \vec{c}) = 0 \text{ then } \vec{a}, \vec{b}, \vec{c} \text{ are coplanar.}$$

$$41. \vec{a} \times (\vec{b} \times \vec{c}) = (\vec{a} \cdot \vec{c})\vec{b} - (\vec{a} \cdot \vec{b})\vec{c}.$$

BIOLOGICAL TERMS

Basic Biological Terminology

⌚ Anatomy	- Study of internal structure of organism.
⌚ Apiculture	- Rearing of honey bee for honey.
⌚ Anthropology	- Study of origin, development and relationship between the culture of past and present human.
⌚ Anthology	- Study of flower and flowering plant.
⌚ Angiology	- Study of blood vascular system including arteries and veins.
⌚ Andrology	- Study of male reproductive organ.
⌚ Biomedical Engineering	- Production and designing of spare part for man for overcoming various defects in man .e.g. artificial limbs, Iron lung, Pacemaker etc.
⌚ Biotechnology	- Technology connected with living being for wilful manipulation on molecular level.
⌚ Cytology	- Study of cell.
⌚ Cardiology	- Study of heart.
⌚ Demography	- Study of population.
⌚ Dermatology	- Study of skin.
⌚ Dendro-chronology	- Counting and analyzing annual growth rings of tree to know its age.
⌚ Ecology	- Study of inter- relationship between living and their environment.
⌚ Evolution	- Study of origin of life, variation and formation of new species.
⌚ Embryology	- It is the study of fertilization and development if zygote.
⌚ Ethnology	- Study of science dealing with different races of human.
⌚ Entomology	- Study of insects.
⌚ Genetics	- Study of variation and transmission of characters from parents to their young ones.
⌚ Histology	- Study of tissue with the help of microscope.
⌚ Hydroponics	- Study of growing plant without soil in water which contain nutrient.
⌚ Haematology	- Study of blood
⌚ Microbiology	- Study of Micro- Organism like virus bacteria algae fungi and protozoa.
⌚ Mycology	- Study of fungi.
⌚ Neurology	- Study of nervous system.
⌚ Neonatology	- Study of new born.
⌚ Nephrology	- Study if kidneys.
⌚ Osteology	- Study of bones.
⌚ Oncology	- Study of cancer and tumours.
⌚ Phycology	- Study of algae.
⌚ Paediatrics	- Branch of medicine dealing with children.
⌚ Physiotherapy	- Treatment of body defects through massage and exercise.
⌚ Radiology	- Science dealing with the effect of radiation on living beings.
⌚ Taxonomy	- Study of classification, nomenclature and identification of organism.
⌚ Telepathy	- Communication of thoughts or ideas from one mind to another without normal use of senses. In other word this is the process of menta contact.
⌚ Veterinary Science	- Science of health care and treatment of animals.

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Name of the Applicant

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Date of Birth

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Campus Preference: CET ☐ CET&R ☐ Lucknow-Unnao ☐ (Kindly write numbers 1-3)

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City of Exam. (Bareilly, Banaras, Budaun, Gorakhpur, Haldwani, Kanpur, Lakhimpur Kheri,
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Campus Preference: CET ☐ CET&R ☐ Lucknow-Unnao ☐ (Kindly write numbers 1-3)

Branch Preference: CS ☐ ME ☐ EC ☐ EN ☐ IT ☐ (Kindly write numbers 1-5)

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Professional Education

SRMS College of Engineering & Technology, Bareilly (Estd. 1996)

SRMS College of Pharmacy, Bareilly (Estd. 2000)

SRMS Institute of Medical Sciences, Bareilly (Estd. 2005)

SRMS College of Engg., Tech. and Research, Bareilly (Estd. 2008)

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SRMS Multi Super Speciality Tertiary Care Hospital & Trauma Centre, Bareilly (Estd. 2002)

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Contact No.: 0522-2308987, 09458702250

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Phone: 0581-2582246, 2582249, 2582331, 2582332 Fax 0581-2582330

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