

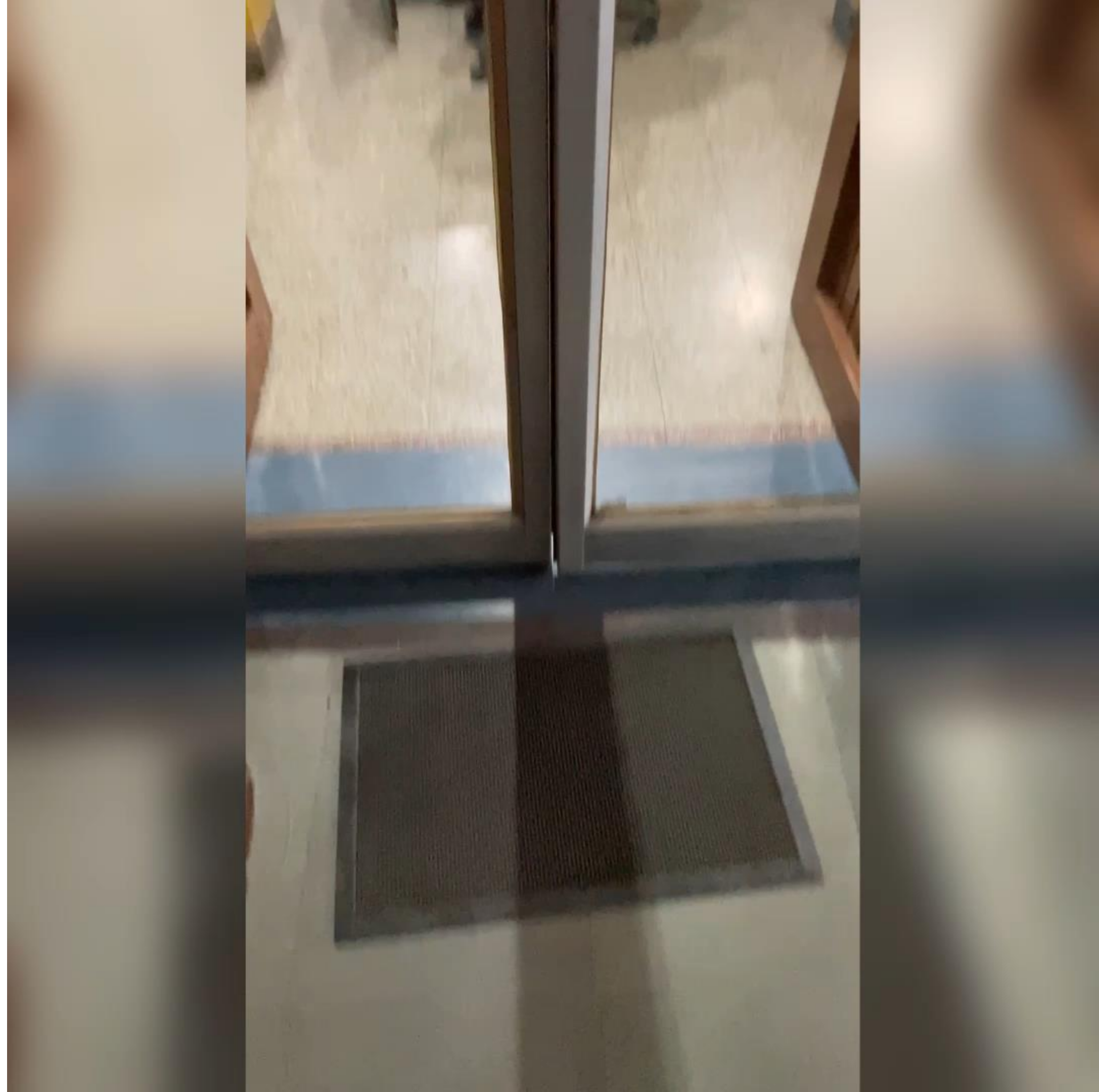
Kota, Rajasthan

CORE
ACADEMY

Enhancing ability to learn & Express

WELCOME TO SEMINAR

**A PREMIER INSTITUTE FOR JEE | NEET |
COMMERCE | CA FOUNDATION | HUMANITIES**



Kota, Rajasthan

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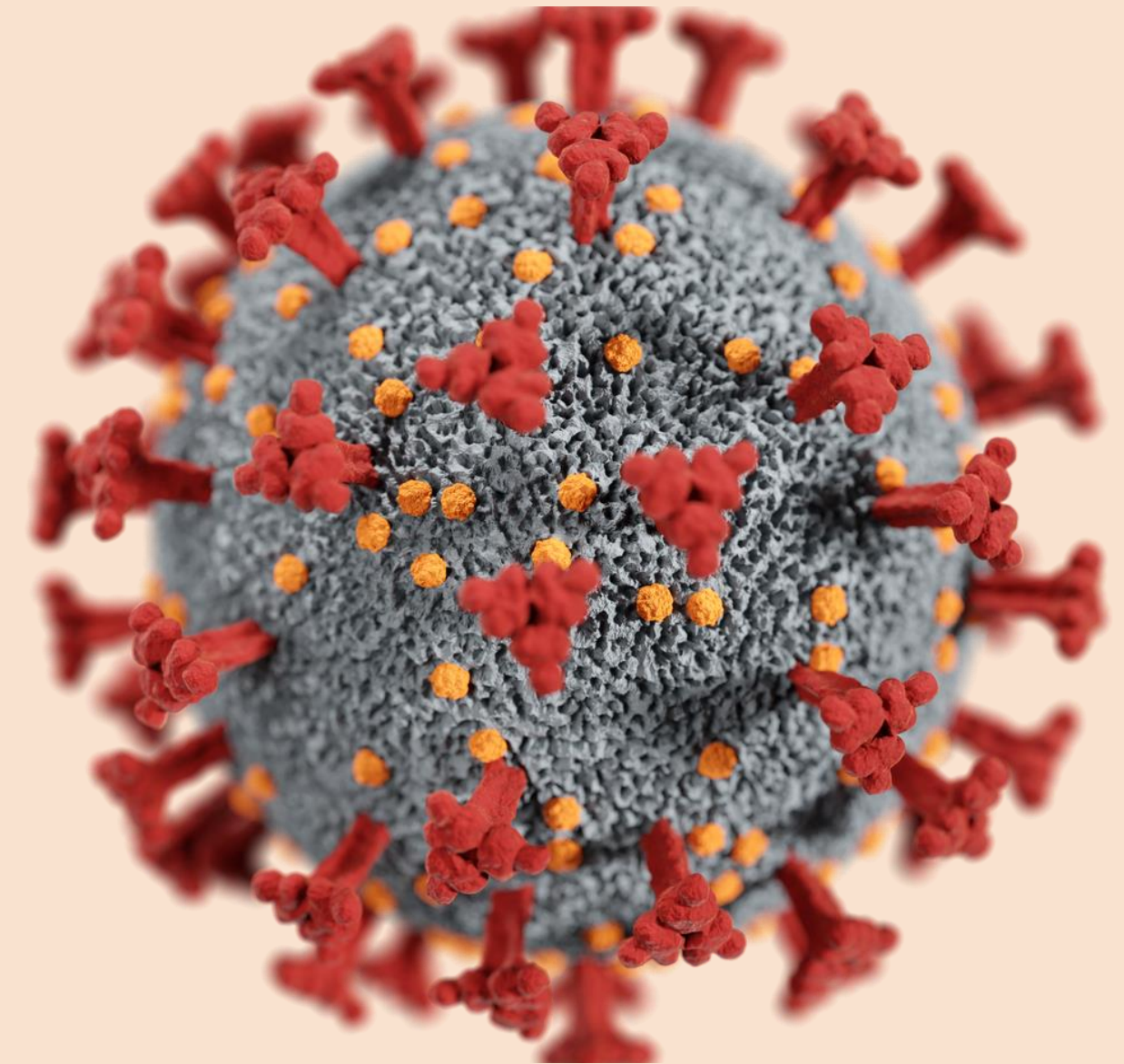


BIOLOGY CAREER COUNSELING

LIFE IN AND AFTER PCB IN HIGH SCHOOL

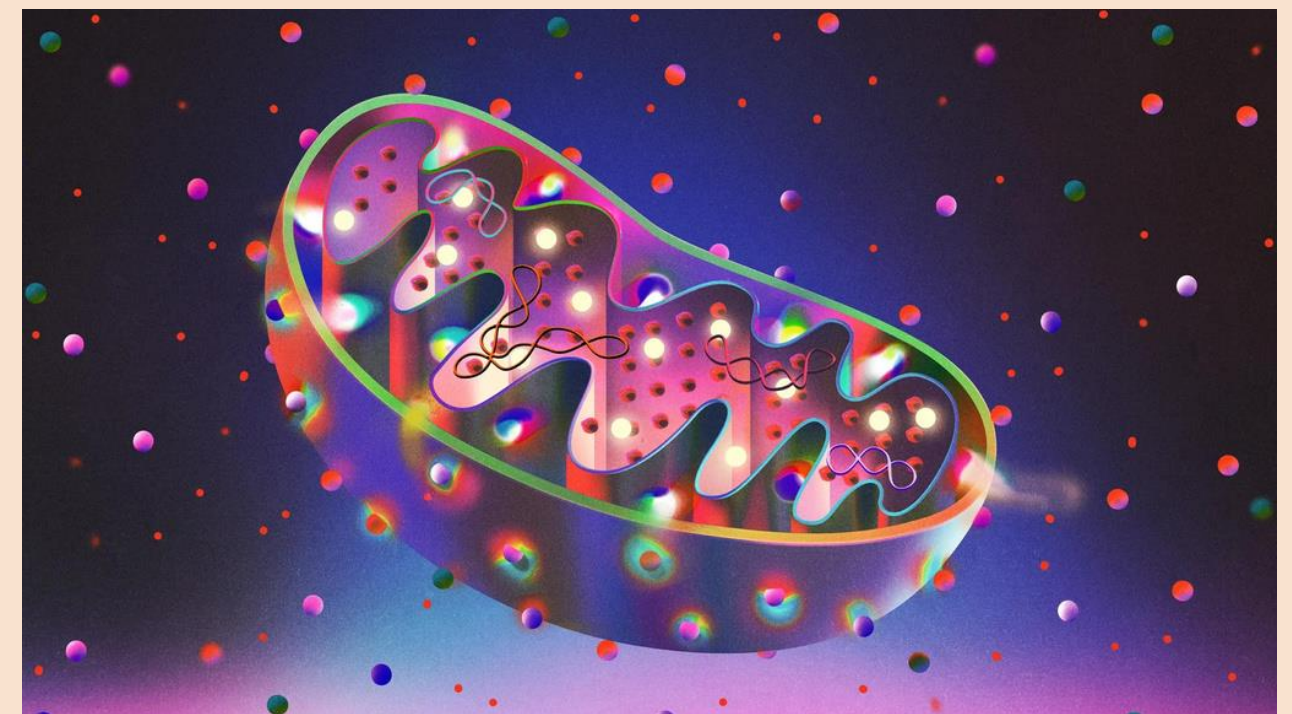
Why Bio ?

- To learn how life in and around works with a sense of awe and delve into the most mysterious of secrets with a notion of helping out others in the truest sense.



Necessity of the seminar

- AWARENESS REGARDING THE SUBJECT AND STREAMS : HOW TO MAKE AND BREAK ; CHECKING THE PROGRESS
- LIFE WITHOUT NEET
- SOCIETAL PRESSURE AND PEER GROUP



MEDICAL PRACTITIONER

Licensed health professionals who maintain and restore human health through the practice of medicine. They examine patients, review their medical history, diagnose illnesses or injuries, administer treatment, and counsel patients on their health and well-being.

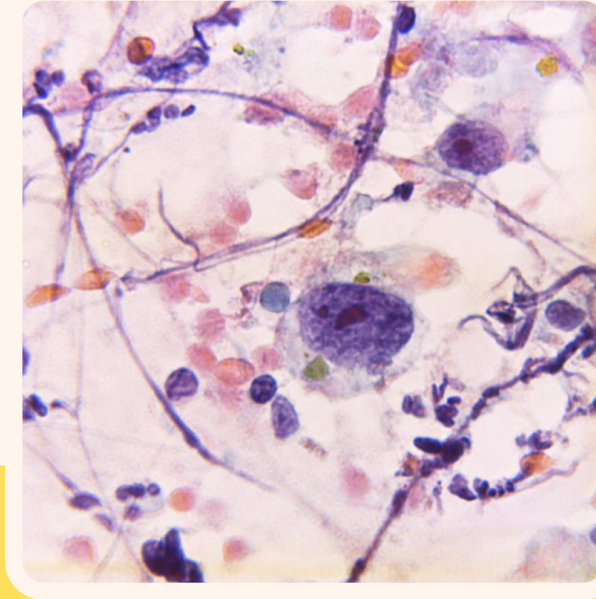
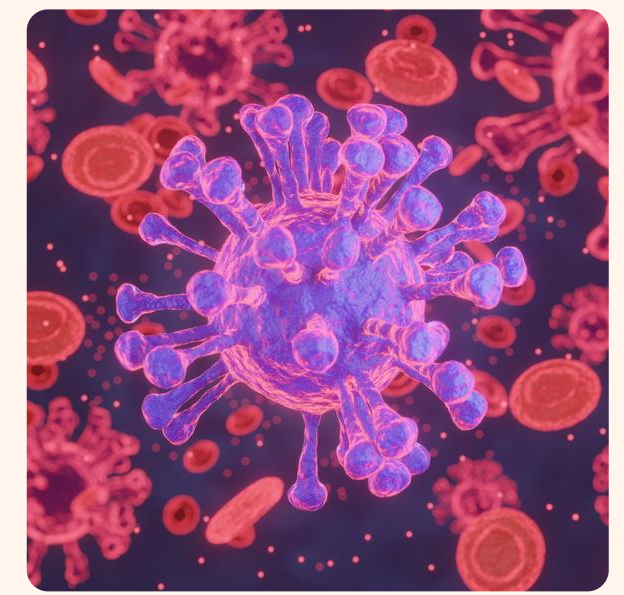


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NEET Examination
PCB IN 12th WITH 50%
(UNRESERVED) AND 40%
(RESERVED)



UG and/or PG
MBBS / BDS / BAMS / BHMS

Career begins
As CLINICIAN / ADMIN /
RESEARCHER / ACADEMICIAN /
COMMUNITY HEALTH



PATTERN

PHYSICS 50 Q

CHEMISTRY 50 Q

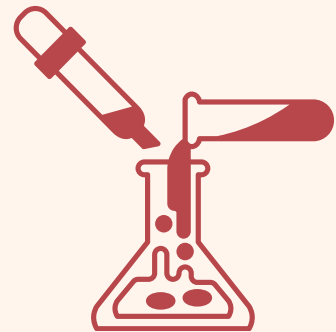
BIOLOGY 100 Q

180/200 Q TO BE
ATTEMPTED

TOTAL MARKS
720

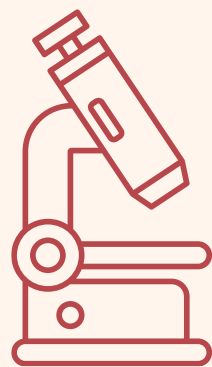
QUALIFYING
CUTOFF AROUND
107 - 137

SELECTION RATIO



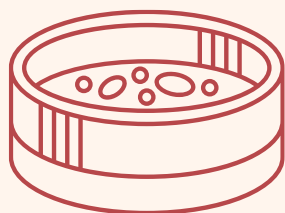
Ratio

IN 2023, 7-8 %, BUT
ACTUALLY 2.2%



Score out of 720

PREFERABLE SCORE 600+



Top Colleges

AIIMS , CMC , KGMU , BHU



Kota, Rajasthan

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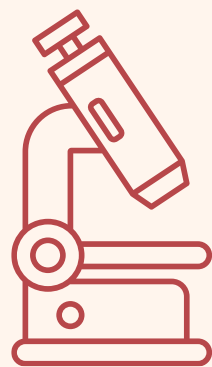


MBBS

Total : 109095

Govt : 55,468

So, Ratio: $55,468/25,00,000$
: 2.2 % (2/100)

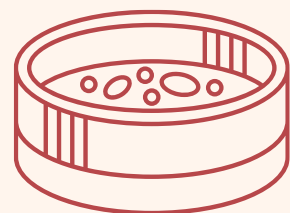


BDS

Total : 27,288

Govt : 3618

Note : In 2022, RUHS Jaipur
started counselling at air
762



BAMS

Total : 31874

Govt : 4276



Top Colleges

AIIMS , CMC , KGMU , BHU

COMMON UNIVERSITY ENTRANCE TEST (CUET)

FOR ADMISSION TO DIFFERENT PROGRAMMES OF THE PARTICIPATING CENTRAL UNIVERSITIES, WILL PROVIDE A SINGLE WINDOW OPPORTUNITY TO THE STUDENTS TO SEEK ADMISSION IN THESE PARTICIPATING UNIVERSITIES / INSTITUTE(S) ACROSS THE COUNTRY.

Sections	Subjects/ Tests	No. of Questions	To be Attempted	Duration
Section IA	13 Languages	50	40 in each language	45 minutes for each language
Section IB	20 Languages			
Section II	27 Domain-specific Subjects	45/50	35/40	45 minutes for each subject
Section III	General Test	60	50	60 minutes

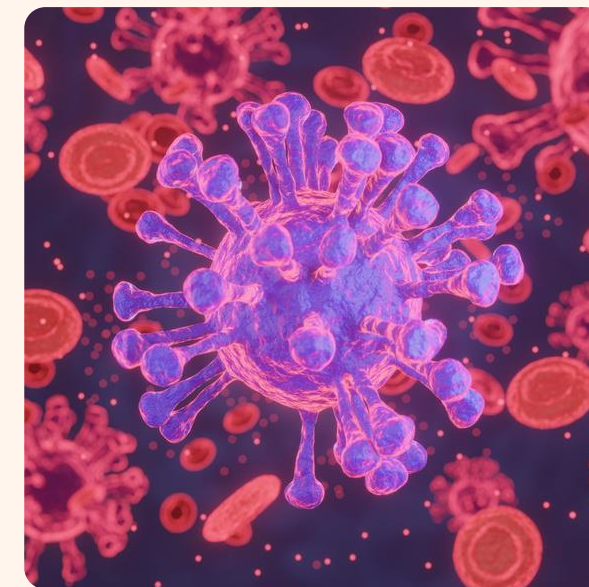
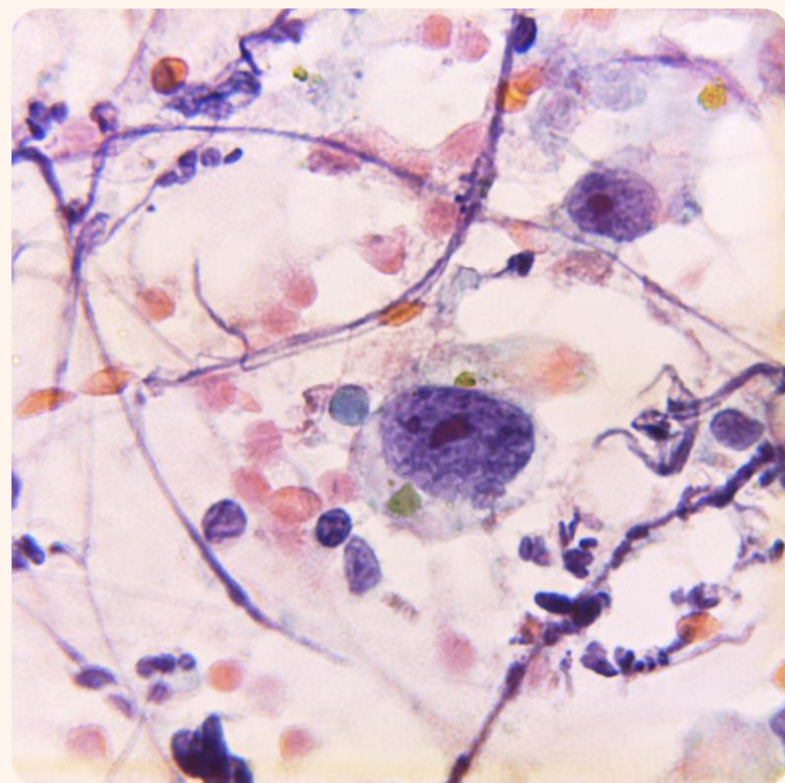
FOOD INSPECTOR

Food inspectors have the authority to inspect any food organisation. They make sure that organisations follow food safety protocols and adhere to government regulations.



Food Safety and Standards Authority of India (FSSAI)





Common University
Entrance Test



UG and/or PG
BSc/MSc in agriculture,
agronomy, food science, plant
science or dairy science

Clear the All India Food
Inspector Exam conducted by
the UPSC.



DRUG INSPECTOR

Pharmacy professional who specializes in monitoring and executing drug efficiency, safety, quality, and usefulness from the manufacturing stage to the final selling stage. The government appoints drug inspectors to ensure the quality of drugs.





Common University
Entrance Test



UG and/or PG
BPharma / Mpharma

Notification by UPSC / PSC
(Written + Interview)



Best colleges for Pharmacology

JAMIA HAMDARD DELHI
ICT MUMBAI
MANIPAL KARNATAKA

PHYSIOTHERAPIST

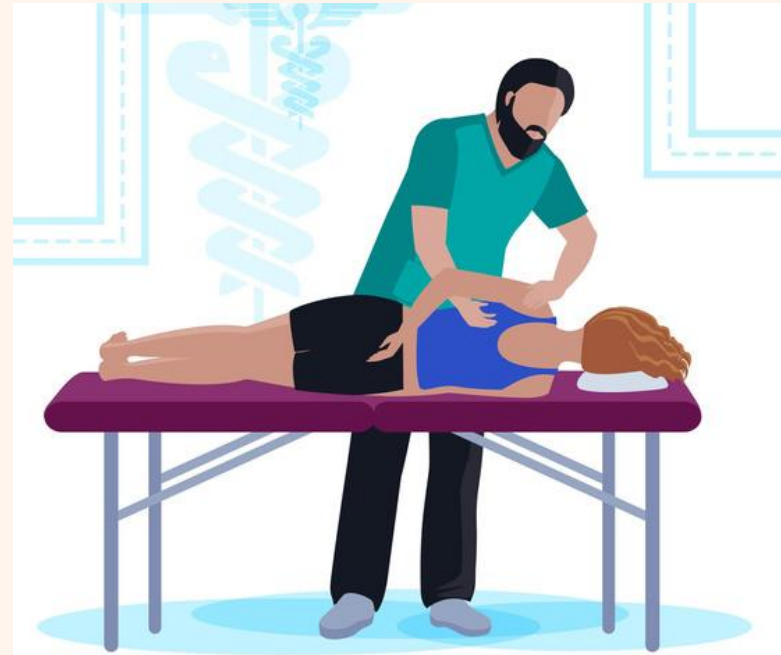
One who works with patients to help them manage pain, balance, mobility, and motor function.



Kota, Rajasthan

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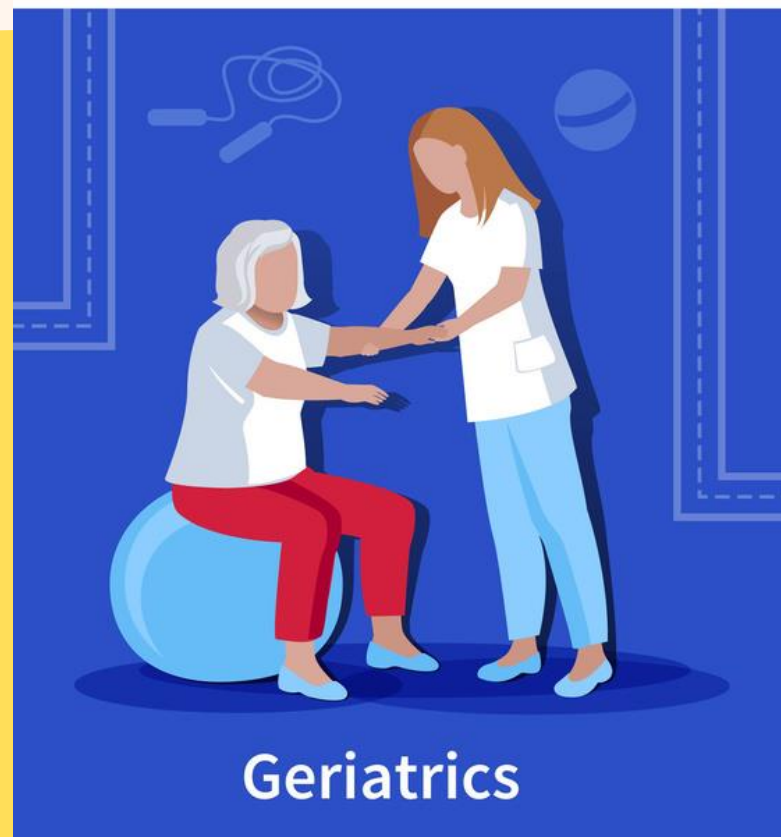
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Orthopedics



Neurologicals



Geriatrics



Pediatrics



Common University
Entrance Test



BPT / MPT

Career in clinic/ hospital/ self
employed



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ACADEMY
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Best colleges

CMC VELLORE
PGI CHANDIGARH
SSKM KOLKATA

MICROBIOLOGIST

Who study microorganisms such as bacteria, algae, and fungi. They investigate the growth, structure, and other characteristics of these organisms.



First Patent on a Genetically Modified Microorganisms

First patent to Ananda Mohan Chakrabarty for a genetically modified *Pseudomonas* bacterium that would eat up oil spills.



US Patent No. 4259444

United States Patent [11] 4,259,444
Chakrabarty [45] Mar. 31, 1981

[54] MICROORGANISMS HAVING MULTIPLE COMPATIBLE DEGRADATIVE ENERGY-GENERATING PLASMIDS AND PREPARATION THEREOF

[75] Inventor: Ananda M. Chakrabarty, Latham, N.Y.

[71] Assignee: General Electric Company, Schenectady, N.Y.

[21] Appl. No.: 360,563

[22] Filed: Jan. 7, 1972

[51] Int. Cl.: C12N 15/00

[52] U.S. Cl.: 435/172; 435/213; 435/264; 435/281; 435/320; 435/375; 435/377

[58] Field of Search: 185/28 R, 1, 3 H, 3 R, 195/96, 78, 79, 112; 435/172, 213, 264, 320, 281, 375, 377

[56] References Cited
PUBLICATIONS

Annual Review of Microbiology vol. 26 Annual Review Inc. 1972 pp. 362-368.

Journal of Bacteriology vol. 106 pp. 468-478 (1971).

Bacteriological Reviews vol. 33 pp. 210-263 (1968).

Primary Examiner—R. B. Penland

Attorney, Agent, or Firm—Leo I. McLaughlin, James C. Davis, Jr.

[37] ABSTRACT

Unique microorganisms have been developed by the application of genetic engineering techniques. These microorganisms contain at least two stable (compatible) energy-generating plasmids, these plasmids specifying separate degradative pathways. The techniques for preparing such multi-plasmid strains from bacteria of the genus *Pseudomonas* are described. Living cultures of two strains of *Pseudomonas* (*P. aeruginosa* [NRRL B-5472] and *P. putida* [NRRL B-5473]) have been deposited with the United States Department of Agriculture, Agricultural Research Service, Northern Marketing and Nutrient Research Division, Peoria, IL. The *P. aeruginosa* NRRL B-5472 was derived from *Pseudomonas aeruginosa* strain 1c by the genetic transfer thereto, and containment therein, of camphor, octane, salicylate and naphthalene degradative pathways in the form of plasmids. The *P. putida* NRRL B-5473 was derived from *Pseudomonas putida* strain PpG1 by genetic transfer thereto, and containment therein, of camphor, salicylate and naphthalene degradative pathways and drug resistance factor RP-1, all in the form of plasmids.

18 Claims, 2 Drawing Figures

8 December 2015

Kota, Rajasthan

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Common University
Entrance Test



BSc /MSc



Career in government,
hospitals, public health
laboratories, research
laboratories, and industrial
laboratories (food, dairy,
chemical, pharmaceutical, and
genetic engineering
companies).



Best colleges

JAMIA MILLIA

ISLAMIA

DU

Quil

BIOCHEMIST

Study the molecular mechanisms by which cells feed, divide, and grow. Others study the evolution of plants and animals, to understand how genetic traits are carried through successive generations.





The 2023 Nobel Prize in Physiology or Medicine was awarded to Katalin Karikó and Drew Weissman for the development of effective mRNA vaccines against COVID-19.



Common University
Entrance Test




Academic researcher ·
Analytical chemist · Biomedical
scientist ·

BSc /MSc



Best colleges

**ST. XAVIER'S
MUMBAI
IISER***



Indian Institutes of Science Education and Research AT

IISER APTITUDE TEST (IAT) IS AN INDIAN COMPUTER-BASED TEST FOR ADMISSION TO THE VARIOUS UNDERGRADUATE PROGRAMMES IN THE SEVEN IISERs, IISC BANGALORE AND IIT MADRAS. IT IS ONE OF THE CHANNELS TO GET ADMISSION INTO THE 5 YEAR BS-MS DUAL DEGREE PROGRAMME OF THE IISERs, 4 YEAR BS DEGREE PROGRAMME OF IISER BHOPAL, BACHELOR OF SCIENCE (RESEARCH) PROGRAMME OF IISC BANGALORE, AND 4 YEAR BS PROGRAMME OF IIT MADRAS. IAT CONSISTS OF 60 QUESTIONS, 15 QUESTIONS EACH FROM BIOLOGY, CHEMISTRY, MATHEMATICS, AND PHYSICS (240 M)

Total test takers : 34,751

Rank needed : Under 2500

PATHOLOGIST

A pathologist studies fluids, tissues, or organs taken from the body.

Pathologists often work with a surgically removed sample of diseased tissue, called a biopsy..

Pathologists are often involved in the diagnosis of illness.



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Fátima has contributed to multiple discoveries in the field of gastric cancer. She is currently Professor of Anatomic Pathology at the Medical Faculty of Porto, head of the Department of Anatomic Pathology at Hospital Sao João, and senior investigator at the Institute of Molecular Pathology and Immunology at the University of Porto.



Common University
Entrance Test



BSc /MSc



Academic researcher ·
Analytical chemist · Biomedical
scientist ·

Best colleges

All India Institute of Medical
Sciences, Delhi
St. John's Medical College,
Bangalore

FORENSIC SCIENTIST

Forensic scientists collect, preserve, and analyze evidence during the course of an investigation.

While some forensic scientists travel to the scene of the crime to collect the evidence themselves, others occupy a laboratory role





Idupuganti Bhooshana Rao (6 January 1914 – 3 May 1976) was a leading figure in forensic medicine in India. He was the Founding-President of the Indian Academy of Forensic Medicine established in 1972. He was also asked by the Government of India to investigate the untimely demise of Lal Bahadur Shastri, then Prime Minister of India.





Common University
Entrance Test



BSc /MSc



Assistant Chemist· Analyst -
Forensics - Investigations &
Compliance

Best colleges

Lok Nayak Jayaprakash Narayan National
Institute of Criminology and Forensic
Science, Delhi
OU - Osmania University, Hyderabad

BIOTECHNOLOGIST

Biotechnologists study plants, animals, microbes, biochemistry and genetics to develop new products and improve existing ones.



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Banwari Lal is an Indian environmental and industrial biotechnologist and the director of the Environmental and Industrial Biotechnology Division at The Energy and Resources Institute (TERI). Known for the development of oilzapper technology, Dr. Lal is the chief executive officer of ONGC-TERI Biotech Limited



Kota, Rajasthan
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Common University
Entrance Test



BSc /MSc



- Pharmaceutical research and Chemical industries
- Medical and Clinical Lab Technologists or Technicians
- Waste management and Environment control systems

Best colleges

Fergusson College, Pune

Mount Carmel College - [MCC], Bangalore

AGRONOMIST

Studies the best practices that can improve the production of food items and consumables. They may act as the bridge between farmers and agricultural researchers.



Kota, Rajasthan

CORE
ACADEMY

Enhancing ability to learn & Express



Common University
Entrance Test



BSc /MSc

Govt/ Private



Best colleges

Indira Gandhi Agricultural
University(Raipur)

Birsa Agricultural University - [BAU],
Ranchi

Tamil Nadu Agricultural University -
[TNAU], Coimbatore

NURSE

Licensed health-care professional who practices independently or is supervised by a physician, surgeon, or dentist and who is skilled in promoting and maintaining health



Kota, Rajasthan

CORE
ACADEMY

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Florence Nightingale was an English social reformer, statistician and the founder of modern nursing. Nightingale came to prominence while serving as a manager and trainer of nurses during the Crimean War, in which she organised care for wounded soldiers at Constantinople. She significantly reduced death rates by improving hygiene and living structure.



Common University
Entrance Test / NEET

At Clinicals / Hospitals / Public
Health

BSc /MSc

Best colleges

AIIMS

AFMC (MNS)

Trivia :

Dr Saransh Mittar IAS (CMO, CG)



Kota, Rajasthan
CORE
ACADEMY
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Dr. Roman Saini (Ex IAS, Co-Founder Unacademy)

Others fields of Interest :

- **Aquaculture**
- **Evolutionary Biology**
- **Paleontology**
- **Medicine (numerous specializations in both human and non-human medicine)**
- **Toxicology**
- **Nutrition**
- **Ecology**
- **Agriculture**
- **Horticulture**
- **Zoology**

Confused for opting stream?

Or Searching a good institute?

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Students**

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4:00 to 6:00 PM

**FOR 12TH Moving
Students**

18th – 20th March

4:00 to 6:00 PM

Before opting any coaching, take demo first, Its your right!

*Thank
you!*