

Academic Year 2021-22

Guidance for Competitive Exams

As regular yearly practice, sessions were organised by Ruia Academy for Competitive exams (RACE) to guide students for preparation of competitive exams to pursue careers in administrative fields. During the initial session, students were introduced to career opportunities through competitive civil exams like MPSC and UPSC. It was participated in by more than 100 students. It was a highly interactive session as resource persons interacted with students at ground level.

Another session namely 'Vyakhya' was organised by RACE to train undergraduate as well as postgraduate students for entrance exams. Students were introduced to various entrance exams like GATE, JAM, GAT-B, etc. followed by guidance for preparation of these exams to get them opportunities of higher education in reputed institutes.

One session was organised by RACE specifically for student aspirants looking for career opportunities in biological sciences. It consists of introduction to different entrance exams as well as guidance to prepare for these exams.

In 'Vyakhya' activity and a session for biological sciences, about 120 students had participated.

Training in UPSC & civil service exams

CIVIL SERVICE EXAMINATION GUIDANCE LECTURE

BY - SHRI. ABHISHEK THARWAL (IRS)

DATE : 23/10/2021 (SATURDAY) TIME : 08:30 AM - 9:30 AM

ATTENDANCE

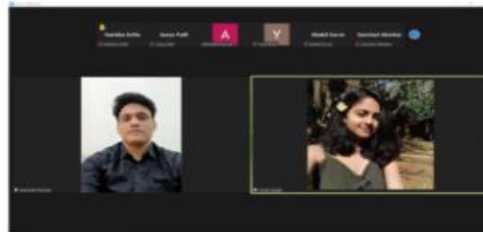
TEACHERS: 2

STUDENTS: 117

GIRLS: 83

BOYS: 34

PICTURES



Entrance exam training sessions for Undergraduate and Post graduate students- Vyakhya



S. P. MANDALI'S
RAMNARAIN RUIA AUTONOMOUS COLLEGE
MATUNGA, MUMBAI-4000019

RUIA ACADEMY FOR COMPETITIVE EXAMS

Invites you to online lecture on
"COMPETITIVE EXAMS IN BIOLOGICAL SCIENCES FOR UNDERGRADUATE AND
POST GRADUATE STUDENTS (VYAKHYA)"

BY

Mr. Swapnil Pradhan & Ms. Shveta Tiwari (Microbiology Dept.)

Day and Date: Tuesday, 27th July 2021. Timing: 5:00PM, Tuesday, 27 July - 5:00 – 7:00pm

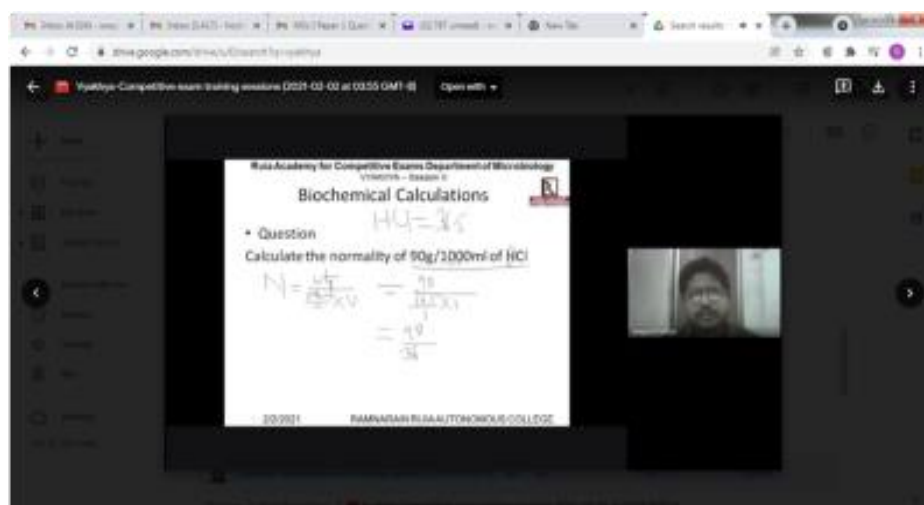
Video call link: <https://meet.google.com/hxz-edni-wod>

Register on the following link: <https://forms.gle/UCjXcblcpYddL1ur9>

Target audience: BSc and MSc Biological Sciences students preparing for entrance exams
for admission to MSc/PhD

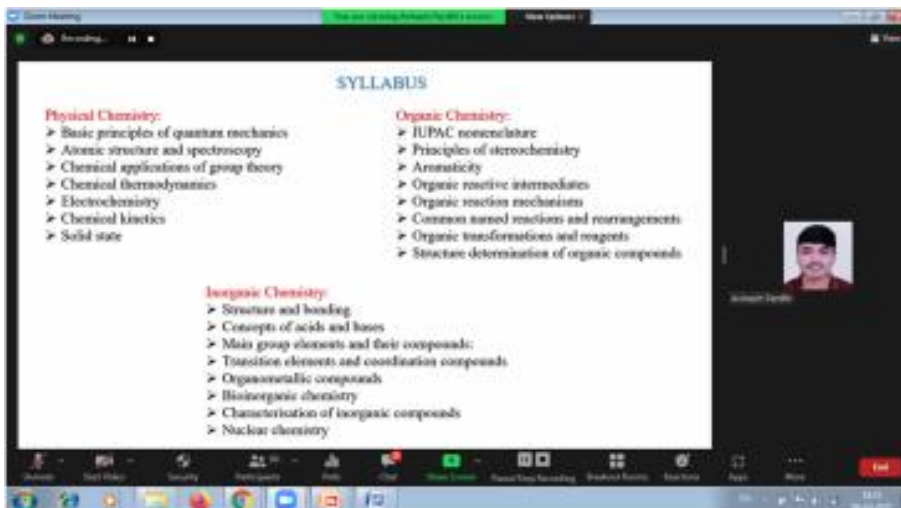
We will deliver information about various competitive examinations in the field of biological sciences, will answer
the queries regarding the same and explain our schedule of lectures for training for the competitive examinations

Mail us regarding queries: swapnilpradhan@ruiacollege.edu, shvetatiwari@ruiacollege.edu



The screenshot shows a Zoom meeting interface. The main content is a slide titled "Biochemical Calculations" from the "RUIA Academy for Competitive Exams Department of Microbiology SEMESTER - BSc/B". The slide contains a question: "Calculate the normality of 90g/2000ml of HCl". Below the question, there is a handwritten solution:
$$N = \frac{W}{E \times V} = \frac{90}{36.5 \times 2} = \frac{90}{73} = 1.23$$

Session on careers and competitive exams in Biological Sciences



SYLLABUS

Physical Chemistry:

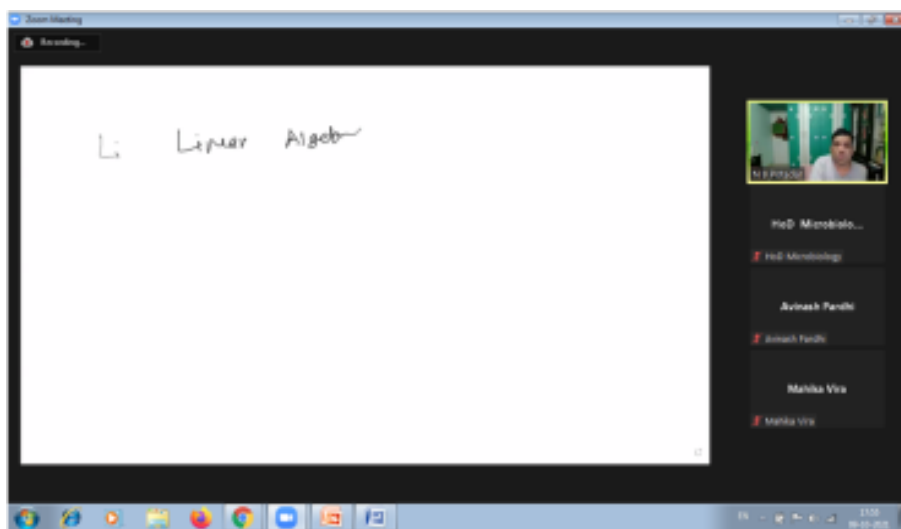
- Basic principles of quantum mechanics
- Atomic structure and spectroscopy
- Chemical applications of group theory
- Chemical thermodynamics
- Electrochemistry
- Chemical kinetics
- Solid state

Organic Chemistry:

- IUPAC nomenclature
- Principles of stereochemistry
- Aromaticity
- Organic reactive intermediates
- Organic reaction mechanisms
- Common named reactions and rearrangements
- Organic transformations and reagents
- Structure determination of organic compounds

Inorganic Chemistry:

- Structure and bonding
- Concepts of acids and bases
- Main group elements and their compounds
- Transition elements and coordination compounds
- Organometallic compounds
- Bioinorganic chemistry
- Characterisation of inorganic compounds
- Nuclear chemistry



L: Linear Algebra