



अखिल भारतीय आयुर्विज्ञान संस्थान
All India Institute of Medical Sciences
मंगलगिरि, आंध्र प्रदेश
Mangalagiri, Andhra Pradesh

www.aiismangalagiri.edu.in

AIIMS/MG/MICRO/Recruitment/ICMR/VRDL/2022/01B

Date: 30 -07-2022

NOTICE

Sub: Date of Exam & Scheme of Examination for 'Research Scientist 'B' Medical & Non-Medical, Research Assistant and Laboratory Technician' ICMR funded Medical College Level VRDL recruitment on Contractual basis

This is in reference to the notice published for List of Eligible/ Provisionally Eligible/ineligible candidates vide AIIMS/MG/MICRO/Recruitment/ICMR/VRDL/2022/01A dtd 19.07.2022 for recruitment of various posts of ICMR funded Medical College Level VRDL.

- The Scheme of written examination (OMR based) for shortlisting the candidates on merit basis at 1:5 ratio for attending the interview is as follows:

S. No	Name of the Post	Syllabus	Scheme of Exam	Duration	
1	Research Scientist 'B' Non-Medical	Refer Annexure 1 & 2	50 MCQ (OMR based)	<ul style="list-style-type: none">The questions can assess any aspect of knowledge, aptitude, attitude and practical skills, which is expected from a trained person to work efficiently at the level of advertised post.1 Marks for each correct answer.	50 Minutes
2	Research Assistant	Refer Annexure 1 & 2	50 MCQ (OMR based)	<ul style="list-style-type: none">The questions can assess any aspect of knowledge, aptitude, attitude and practical skills, which is expected from a trained person to work efficiently at the level of advertised post.1 Marks for each correct answer.	50 Minutes
3	Laboratory Technician	Refer Annexure 1	50 MCQ (OMR based)	<ul style="list-style-type: none">The questions can assess any aspect of knowledge, aptitude, attitude and practical skills, which is expected from a trained person to work efficiently at the level of advertised post.1 Marks for each correct answer.	50 Minutes

Time and Date of Written Examination & Interview is as below:

Post	Date	Time of written examination	Interview Time
Research Scientist 'B' Non-Medical	18 th August 2022	10 to 10:50 AM	2:00 PM onwards
Research Assistant			
Lab technician			

* Candidates Reporting after 10 AM will not be allowed

Note: 1) There will be a direct Interview for the post of Research Scientist 'B' (Medical)

2) For any queries, the candidate may reach to email: microbiology@aiismangalagiri.edu.in

Sd/-

Faculty I/c (Recruitment Cell)

Annexure-1

Syllabus for the conduct of written examination for research scientist 'B' Non Medical, Research Assistant and Lab technician posts:

Common syllabus to all categories:

MICROBIOLOGY 1. Introduction-Definition and importance of microbiology, classification of microorganisms. Brief morphological features of microbes. General properties of bacteria, Viruses and fungi

2. Chain of Infection-Definition of infection-Sources of microbes. Routes of Infection and prevention of hospital acquired infection, Microbial Pathogenicity

3. Sterilization-Definition and classification physical methods of sterilization, Use of Autoclave, Preparations and Sterilization of Surgical packs. Disinfection-Definition and classification, Methods of disinfection. Principles of cleaning and disinfection of the rubber-goods, Glasswares, Packs, linens, Equipments. Virology lab glass wares.

4. Growth survival of Micro-organism Microbial Growth, Definition and measurement of bacterial growth, Control of Microbial Growth. Cultivation of microorganisms -Growth requirements, Sources of metabolic energy, Nutrition, Environmental and other factors affecting growth, Methods of Cultivation 5. Collection and transport of specimen, Standard precautions for prevention of blood borne infection. Collection of culture sources from theatre. Biomedical waste segregation and waste management.

6. Antimicrobial susceptibility and assay, chemotherapy

7. Bacteriology- Gram Positive, Gram Negative, Acid Fast Bacilli, Spirochetes

Virology: Brief description and Lab diagnosis of Viral Infections: HIV, Hepatitis, Rabies, Polio, Swine flu, Dengue Virus
Mycology: Brief description and lab diagnosis of fungal infections
Parasitology: Parasites / Helminths, Protozoa.

Clinical skills: Collection of specimens for Microbiological investigations such as Blood, Urine, Throat swab, Rectal swab, Stool, Pus (swabs), OT and other specimens

Collection of relevant clinical samples: Blood for culture and serological test, Urine for culture, Swabs for microscopy and culture . Body fluids for microscopy and culture .

Storage and transport of the clinical specimens: Preparation of smears from clinical material, Microscopic Examination

Advanced: Basic infection control in virology labs. Bio safety cabinets for virology samples, COVID-19 bio safety guidelines and biomedical waste management's.

Suggested Readings:

1. Ananthanarayan R. and Paniker C.K.J. (2009) Textbook of Microbiology. 8th edition, University Press Publication
2. Brooks G.F., Carroll K.C., Butel J.S., Morse S.A. and Mietzner, T.A. (2013)
3. Adelberg's Medical Microbiology. 26th edition. McGraw Hill Publication
4. Goering R., Dockrell H., Zuckerman M. and Wakelin D. (2007) Mims' Medical Microbiology. 4 th edition. Elsevier
5. Willey JM, Sherwood LM, and Woolverton CJ. (2013) Prescott, Harley and Klein's Microbiology. 9th edition. McGraw Hill Higher Education
6. Goldsby RA, Kindt TJ, Osborne BA. (2007). Kuby's Immunology. 6th edition W.H. Freeman and Company, New York.
7. <https://www.mohfw.gov.in/pdf/NotificationofICMguidelinesforCOVID19testinginprivatelaboratoriesIndia.pdf>

Specific for Research scientists and Research assistant (ICMR)

All subjects will be MBBS level.

1. Molecular Biology aspects
2. Genetics, DNA/RNA Structure
3. Transcription, Translation
4. Genomics, Proteomics
5. Molecular Methods Line Probes
6. PCR, DNA Fingerprinting, DNA Chips
7. Communicable Diseases like Leprosy, Tuberculosis, HIV/AIDS, Encephalitis
8. Viral Diseases like Measles, Hemorrhagic Fevers
9. Various Vector Borne Diseases like Malaria, Acute Flaccid Paralysis, Diarrheal Diseases
10. Health Hazards To Environmental Pollution Due to Chemical Pollutants and Industrial Exposures
11. Reproductive Health.