



# جامعة الموصل - كلية الطب البيطري



## مفردات الامتحان التنافسي للتقديم الى الدراسات العليا ماجستير احياء مجهرية بيطرية لسنة ٢٠٢٦-٢٠٢٧

علم الاحياء المجهرية العام	
1	Introduction and History of Microbiology
2	Bacterial Cell Structure and Function
3	Bacterial Classification
4	Bacterial Nutrition and Growth
5	Sterilization and Disinfection
6	Antibiotics and Chemotherapeutic Agents
7	Bacterial Genetics, Bacterial Virulence
8	Normal Flora and Probiotics
9	Mycoplasma, Mycology
10	Rickettsia and Chlamydia

المخاطر البيولوجية	
1	Route of exposure to pathogens.
2	Laboratory safety symbols and hazard signs.
3	Risk groups and Biosafety Levels.
4	Biosafety cabinet classes.
5	Design, Operation, use, and misuse.
6	Standard Microbiology Techniques and Safety.
7	Biological Materials (Bacteria, Viruses, Fungi, Parasites, Prions, Zoonotic pathogens, Toxins).
8	Collection, handling, and transport of diagnostic specimens.
9	Decontamination and waste disposal.
10	Working with potentially infected animals.
11	General considerations.
12	Biological accidents: - In the Laboratories. - In the field.
13	First aid and emergency response in the Laboratories



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علم الاحياء المجهرية الخاص	
1	Staphylococcus , Streptococcus
2	Corynebacterium , Listeria , Bacillus
3	Clostridium, Actinomyces and Nocardia Actionbacillus, Pasteurella, Haemophillus
4	Moraxella and bordetlla
5	Pseudomonas (Burkholderia)
6	Leptospira , Campylobacter , Brucella
7	, Spharophorus , Enterbacteriaceae ,
8	Mycobacterium

علم الفايروسات	
1	Introduction and Discovering of Viruses
2	General Characteristics of Viruses, Nature and Structure
3	Morphology and Chemistry of Viruses
4	Virus Classification and Taxonomy
5	Virus Multiplication and Propagation (replication)
6	Viral genetics and Interaction Between Viruses
7	Interferon and Viral Interference
8	Viral Vaccines and Antiviral Drugs
9	Bacteriophages
10	Effect of Physical and Chemical Agents on Viruses
11	Laboratory Diagnosis of Viral Infection
12	Picornavirus and Caliciviridae
13	Orthomyxoviridae
14	Paramyxoviridae and Retroviridae
15	Reoviridae and Birnaviridae
16	Rhabdoviridae and Bornaviridae
17	Bunyaviridae and Coronaviridae
18	Poxviridae, Herpesviridae
19	Adenoviridae and Parvoviridae
20	Papovaviridae and Papillomaviridae



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علم المناعة	
1	Principle of immunity
2	Immune response specific and nonspecific
3	Immunoglobulin: Structure, variation, Function and synthesis
4	Immunology of T and B cells
5	Complement: Nature, Function and pathways
6	Cell mediated immunity
7	Antigen recognition by T cells
8	Immunological tolerance
9	Types of Hypersensitivity
10	Mechanisms Auto-immunity
11	Transplantation
12	Principle of immune genetics
13	Immunoanaphylaxis reaction
14	Immunity of infection