

مفردات الامتحان التنافسي للمتقدمين للدراسات العليا (الماجستير) / قسم التحليلات المرضية

No.	Subject	Syllabus
1	Laboratory instruments	Microscope,ELISA reader and washer,Oven, Incubator,Autoclave, Spectrophotometer,Biological cabinet,Centrifuge Water distiller,Chemistry analyzer
2	Histology	Primary tissues,Urinary system,Digestive system, Blood,Skin Spleen, Respiratory system, Ovary and tests
3	Physiology	Blood,Digestive system and accessory glands,Urinary system Skin,Reproductive system,Endocrine system
4	Biotechnology	Fields and of Branches of Biotechnology,Medical biotechnology,Genetic testing,harmacogenomics& harmacogenetics,Bioreactor fermentation,Protein isolation & purification,Protoplast fusion,Genetic modification,Gene therapy .
5	Molecular biology	nuclic acids,replication,transcription ,translation,viruses, plasmid and phage replication,gene expression,DNA mutagenesis,DNA repair,restriction ,ndonucleases, recombination,cloning, molecular analysis
6	Medical bacteriology	Normal flora ,Staphylococci ,Streptococci ,Enterobacteria Vibirios,Campylobacter and Helicobacter,Parvobacteria Mycobacterium,Neisseria,Bacillus, Clostridium
7	Medical virology	Viruses classification and replication of,Expression of viral genome,Transmission,Cultivation and assays of viruses
8	Medical mycology	fungal characteristics and structures ,fungal physiology and nutrition,fungal reproduction and classification fungal pathogenesis and clinical grouping, skin mycology, opportunistic systemic mycoses
9	Immunology	Anatomy of immune system,Innate and adaptive immunity, Antigen and antibody,immune response ,Humeral immunity Lymphocyte,Immuno techniques,Hypersensitivity,mmunodeficiency disease,Autoimmune disease,Tumor immunity,Microbial immunity ,Transplantation,Tolerance
10	Parasitology	Introduction,Diagnosis of parasitic infections, Protozoa, Amoebae & ciliate,flagellates ,Blood & tissue protozoa Trematodes, Intestinal flukes, lung flukes, blood flukes Cestodea, Extraintestinal tap worm, Nematode
11	Hematology	Stem cell,Hematopoiesis,Anemia,Leukocyte disorder Hemostasis,Hemostasis disorder,Hematological malignancy,Complete blood count