

# **EXAMINATION QUESTIONS – MICROBIOLOGY DENTAL MEDICINE**

## **1. GENERAL MICROBIOLOGY**

1. Cytoplasmic membrane, cytoplasmic structures
2. Cell wall of bacteria
3. Capsule and glycocalyx
4. Flagella and Fimbriae
5. Endospores
6. Growth and cultivation of bacteria
7. Disinfection
8. Sterilisation
9. Prokaryotic Genome
10. Bacteriophage
11. Conjugation, transduction, transformation
12. Antibiotics
13. Side effects of antibiotics – resistance
14. Antifungal, antiprotozoal and antiviral chemotherapy
15. Pathogenicity and virulence
16. Antigenic structure of bacteria
17. Serology – Agglutination, Precipitation
18. Serology – Complement Fixation Reaction, ELISA and immunofluorescence
19. Nosocomial infections
20. Ecology of the oral flora
21. Microbiology of caries
22. Microbiology of periodontal disease

## **II. BACTERIOLOGY, MYCOLOGY, PARASITOLOGY**

1. Streptococci
2. Staphylococci
3. Neisseria
4. Escherichia coli and other enterobacteria
5. Campylobacter, Helicobacter
6. Haemophilus, Bordetella
7. Anaerobic bacteria
8. Bacillus, Clostridium
9. Corynebacteriae, Listeriae
10. Legionellae
11. Actinobacillus
12. Mycobacteria tuberculosis
13. Treponema pallidum
14. Chlamydiae, Mycoplasma, Rickettsiae
15. Actinomycetes
16. Gardiae
17. Trichomonas
18. Entamoeba histolytica
19. Toxoplasma gondii
20. Plasmodia
21. Pneumocystis carinii
22. Causative agents of parasitic infections

### **III. VIROLOGY, CLINICAL MICROBIOLOGY**

1. General properties of Viruses (structure, composition, cultivation, replicative cycle)
2. Virus vaccines
3. Adenoviruses
4. Herpesviruses (HSV-1, HSV-2, Varicella-Zoster virus)
5. Herpesviruses (Cytomegalovirus, EB virus, HHV-6)
6. Hepatitis viruses (HBV, HAV, HCV, HDV-delta virus, HEV)
7. Polioviruses
8. Coxsackieviruses
9. Rotaviruses
10. Encephalitis viruses
11. Orthomyxoviruses – influenza virus
12. Paramyxoviruses – Parainfluenza virus, RS virus, Mumps virus, Measles virus
13. Rubella virus
14. Rabies virus
15. Slow and unconventional viruses
16. Oncoviruses
17. HIV
18. Causative agents of meningitis and encephalitis
19. Causative agents of respiratory tract infections
20. Causative agents of diarrhoea
21. Causative agents of sexually-transmitted diseases
22. Causative agents of sepsis