Rajiv Gandhi University of Health Sciences, Karnataka

Time: Three Hours Max. Marks: 100 Marks

MICROBIOLOGY - PAPER I (RS-4) Q.P. CODE: 1030

(QP contains two pages)

Your answers should be specific to the questions asked Draw neat, labeled diagrams wherever necessary

LONG ESSAYS 2 x 10 = 20 Marks

- A 35 year old male came with history of intravenous drug abuse and is admitted with complaints of unexplained fever progressive weight loss persistant diarrhoea and generalized lymph adenopathy for the past 8 months
 - a) What is the most probable diagnosis?
 - b) Discuss the pathogenesis of the disease
 - The laboratory diagnosis with NACO guidelines
 - d) Precautions to be followed for prevention
- A 13 year old boy developed severe watery diarrhoea and vomiting. The stool collected has a rice water type of appearance. It was sent for bacterial culture
 - a) What is the probable etiological agent of this condition?
 - b) Describe in detail the pathogenesis of this condition
 - Describe the laboratory diagnosis of this organism
 - d) Add a note on prophylaxis and prevention

SHORT ESSAYS 8 x 5 = 40 Marks

- Monoclonal antibodies
- Mechanisms of autoimmune disease
- Modes of transmission of infections
- Dimorphic fungi causing infections
- Laboratory diagnosis of Falciparum malaria
- Classify protozoan infections with examples
- 9. Acid peptic disease Causative organisms, pathogenesis and diagnosis
- Laboratory diagnosis of Mycetoma.

SHORT ANSWERS 10 x 3 = 30 Marks

- List three functions of complement
- Mention three agglutination tests
- 13. What are the risk categories of Spaulding classification and the definitions for each category?
- Lab diagnosis of intestinal amoebiasis
- Lab diagnosis of tinea infections
- Tzanck smear
- 17. Widal test
- Name six bacteria causing diabetic foot infection
- Pathogenesis of Shigella
- Lab diagnosis of skin lesions caused by staphylococcus



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OP CODE: 1030

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Multiple Choice Questions

- 21 i) Fungi that do not affect nail
 - A. Trichophyton
 - B. Epidermophyton
 - C. Microsporum
 - D. Candida albicans
- 21 ii) Tinea versicolor is caused by
 - A. Candida albicans
 - B. Trichophyton rubrum
 - C. Trichophyton mentagrophytes
 - D. Malassezia furfur
- 21 iii) Vector for Leishmaniasis is
 - A. Sandfly
 - B. Reduvid bug
 - C. Tsetse fly
 - D. Anopheles mosquito
- 21 iv) Subacute sclerosing panencephalitis (SSPE) is a complication of which viral infection
 - A. Mumps
 - B. Measles
 - C. Rubella
 - D. Influenza
- CAMP test is used to identify which of the following bacteria 21 v)
 - A. Streptococcus pyogenes
 - B. Streptococcus agalactiae
 - C. Streptococcus pneumonia
 - D. Viridans streptococci
- Scalded skin syndrome is mediated by 22 i)
 - A. Hemolysin
 - B. Coagulase
 - C. Enterotoxin
 - Epidermolytic toxin
- 22 ii) Which of the following is a not a liver fluke
 - A. Fasciolopsis buski
 - B. Fasciola hepatica
 - C. Clonorchis sinensis
 - D. Opisthorchis viverini
- Which is known as Australia antigen
 - A. HBsAg
 - B. HBcAg
 - C. HBeAq
 - D. HBV DNA
- 22 iv) Antibodies against which of the following antigen appear in typhoid carrier
 - A. O antigen
 - B. H antigen
 - C. Vi antigen
 - D. Capsular antigen
- Transfer of DNA from one bacterium to another by a bacteriophage is called 22 v)
 - A. Conjugation
 - B. Transduction
 - C. Transformation
 - D. Transposition

