

**Rajiv Gandhi University of Health Sciences, Karnataka****MBBS Phase – II (CBME) Degree Examination - 13-May-2022****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**

1. A 20 year old male travelled to India from USA and developed pain abdomen and loose stools after three days.
  - a) Enumerate the bacteria causing diarrhoea
  - b) Describe pathogenesis of traveller diarrhoea
  - c) Write briefly on laboratory diagnosis of traveller diarrhoea
2. A 40 year old male presented with history of loss of appetite, malaise and jaundice of 2 months duration. On examination, there was icterus, hepatomegaly and tenderness in the right hypochondriac region. He gave a history of blood transfusion in the past. On laboratory examination, he was found to be positive for HbsAg.
  - a. Mention viral causes of above clinical condition
  - b. Write in detail about the laboratory diagnosis of the above patient
  - c. How will you prevent the transmission of this infection?

**SHORT ESSAYS****8 x 5 = 40 Marks**

3. Lab diagnosis of acute rheumatic fever.
4. Chromoblastomycosis.
5. Cutaneous larva migrans.
6. Bacterial spore.
7. Differences between Endotoxins and Exotoxins.
8. Lab diagnosis of mycetoma
9. Type I hypersensitivity
10. Hot air oven.

**SHORT ANSWERS****10 x 3 = 30 Marks**

11. Name three non sporing anaerobic bacteria.
12. Mention the modes of HIV transmission
13. Name three organisms causing food poisoning.
14. Lab diagnosis of malaria
15. Name three dimorphic fungi
16. Mention the infective form and diagnostic form of round worm infections.
17. Tropical eosinophilia.
18. Laboratory diagnosis of Enterobius vermicularis.
19. Name three superficial Mycotic infections.
20. Name three killed vaccines.

# Rajiv Gandhi University of Health Sciences, Karnataka

**Multiple Choice Questions****10 x 1 = 10 Marks**

- 21 i) Millionaire immunoglobulin is  
A. Ig G  
B. Ig M  
C. Ig A  
D. Ig D
- 21 ii) Selective Media used for cholera is  
A. Wilson and Blair media  
B. LJ media  
C. TCBS agar  
D. XLD media
- 21 iii) Sporulation occurs in \_\_\_\_\_ phase of growth curve  
A. Lag phase  
B. Phase of decline  
C. Log phase  
D. Stationary phase
- 21 iv) Definitive host for *Echinococcus granulosus* is  
A. Man  
B. Dog  
C. Sheep  
D. Pig
- 21 v) Which of the following is not a liver fluke?  
A. *Clonorchis sinensis*  
B. *Opisthorchis viverrini*  
C. *Fasciola hepatica*  
D. *Fasciolopsis buski*
- 22 i) Scalded skin syndrome is due to  
A. Hemolysin  
B. Coagulase  
C. Enterotoxin  
D. Epidermolytic toxin
- 22 ii) Which is the infective form of the malaria parasite to man?  
A. Merozoite  
B. Trophozoite  
C. Gametocyte  
D. Sporozoite
- 22 iii) Subacute endocarditis is commonly caused by  
A. *Vibrio cholera*  
B. *Streptococcus viridans*  
C. *Brucella*  
D. *Gonococci*
- 22 iv) Babesiosis is transmitted by  
A. Mosquito  
B. Sandfly  
C. Mite  
D. Tick
- 22 v) The commonest causative agent of Lemierre syndrome is  
A. *Leptotrichia buccalis*  
B. *Fusobacterium fusiforme*  
C. *Fusobacterium necrophorum*  
D. *Fusobacterium nucleatum*