

**RAN-3712**

**Second Year M.B.B.S. Examination**

**December / January - 2019 / 2020**

**Microbiology : Paper -1**

**(General Microbiology, Immunology, and Parasitology)**

**Time: 2 Hours ]**

**[ Total Marks: 40**

**સૂચના : / Instructions**

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:

☛ **Second Year M.B.B.S.**

Name of the Subject :

☛ **Microbiology : Paper -1**

Subject Code No.: **3 7 1 2**

Seat No.:

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Student's Signature

**Section -I**

**Q.1 Write notes on:**

1. Describe morphology, life cycle & Laboratory Diagnosis of *Wuchereria bancrofti* .

**8**

**OR**

1. Define and classify Hypersensitivity reaction. Write in detail about Type IV hypersensitivity.

**8**

**Q.2 Write short notes on: (Any Three)**

**12**

- a) Transduction.
- b) ELISA.
- c) Monoclonal antibody.
- d) Bacterial capsule.

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**[ 1 ]**

**[ P.T.O. ]**

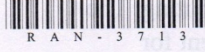
**Section- II**

**Q.3 Write notes on : (Any Two) 10**

- a) Cytokines.
- b) Anerobiosis.
- c) Lifecycle and Laboratory diagnosis of Leishmania Donovanii.

**Q.4 Write in short: (1-2 Sentences) 10**

- a) Heterophile antigen.
- b) Enumerate two parasites causing Malignancy.
- c) Jumping gene.
- d) Enumerate four transport media.
- e) Enumerate two Urease test positive bacteria.
- f) Tyndallization .
- g) NIH Swab.
- h) Define Adjuvant.
- i) Enlist Two Viviparous Parasites.
- j) L-form.



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**Second Year M.B.B.S. Examination**

**December / January - 2019 / 2020**

**Microbiology : Paper - II**

**(Systemic bacteriology, Virology & Mycology)**

**Time: 2 Hours ]**

**[ Total Marks: 40**

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Name of the Examination:

**Second Year M.B.B.S.**

Name of the Subject :

**Microbiology : Paper - II**

Subject Code No.: **3 7 1 3**

Seat No.:

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Student's Signature

**Section -I**

**Q.1 Write notes on:**

1. A 50 years old male was admitted to the hospital with complaint of pain and pus discharging swelling in the lateral aspect of his left calf. Gram stain shows gram positive cocci in clusters, culture on blood agar shows golden yellow pigmented beta hemolytic colonies. Identify the organism and answer the following:
  - a) Name the causative agent and describe the morphology of causative agent.
  - b) Write about virulence factor of this organism.
  - c) briefly discuss the laboratory diagnosis

**8**

**OR**

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**[ 1 ]**

**[ P.T.O. ]**

1. A 10 year old girl developed severe watery diarrhoea and vomiting. The stool collected has a rice watery type of appearance. It was sent for microbiological analysis. 8
- a) What is the probable etiological diagnosis of this condition and write morphology of causative organism.
  - b) Describe in detail about pathogenesis of causative organism.
  - c) Write briefly about laboratory diagnosis.

**Q.2 Write short notes on: (Any Three) 12**

- a) Laboratory diagnosis of urinary tract infection.
- b) Tuberculin test.
- c) Candidiasis.
- d) Antigenic structure of HIV virus.

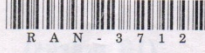
**Section- II**

**Q.3 Write notes on: (Any Two) 10**

- a) Gas gangrene.
- b) Laboratory diagnosis of Hepatitis B.
- c) Mucormycosis.

**Q.4 Write in short: (1-2 Sentences) 10**

- a) Name four organism causing Non-gonococcal urethritis.
- b) Castaneda method.
- c) Antigenic shift.
- d) Name two bacteria causing food poisoning.
- e) Germ tube test.
- f) Draw diagram of bacteriophage.
- g) Enumerate two viruses causing Diarrhoea.
- h) Examples of two bacterial zoonotic diseases.
- i) Nagler reaction.
- j) Reverse CAMP test.



Second Year

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**General Microbiology Examination**

**March / April - 2019**

**Immunology & Parasitology**

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Name of the Examination:

**General Microbiology**

Name of the Subject :

**Immunology & Parasitology**

Subject Code No.: **3 7 1 2**

Seat No.:

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Student's Signature

**SECTION - I**

**Q 1. Write notes on: (8 marks)**

Describe life cycle and laboratory diagnosis of malarial parasite.

**OR**

Classify transplant based on genetic relationship between donor and recipient and write in detail about graft rejection.

**Q 2. Write short notes on: (Any three) (12 marks)**

- Immunoglobulin M (IgM)
- Tumor antigen
- Spaulding's classification of Medical devices.
- Anaerobic culture methods.

**SECTION II**

**Q3. Write notes on: (Any two)**

**(10 marks)**

- (a) Hydatid cyst
- (b) Post Kala- azar dermal leishmaniasis
- (c) Life cycle and laboratory diagnosis of *Ascaris lumbricoides*.

**Q4. Write in short: (1-2 sentences)**

**(10 marks)**

- (a) Write infective form of *Ancylostoma deodenale*.
- (b) Define definitive host.
- (c) Enlist two parasites causing CNS infection.
- (d) Define hapten.
- (e) Define cross infection.
- (f) Enlist two diseases associated with type IV hypersensitivity.
- (g) Write four contributions of Louis Pasteur to Microbiology.
- (h) Define silent mutation.
- (i) Define Transposon.
- (j) Write two methods of antimicrobial susceptibility testing.

**OR**