

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**DEPARTMENT OF PARAMEDICAL AND HEALTH SCIENCES**  
**B.Sc. Med. Sci. Examination April-2022-23**

**Year:3**

**Subject Code: 19106302**

**Subject Name: Medical Laboratory Technology-II**

**Date: 13/04/2023**

**Time: 10:00 am to 1:00 pm**

**Total Marks: 70**

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**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1(A): Answer the following questions in details (2 out of 3) (Each worth 7.5 marks) 15 marks**
- (i) Describe in detail Laboratory Diagnosis of Enteric fever.
  - (ii) Write in detail about ABO and Rh blood grouping.
  - (iii) Write a detail note on Iron Deficiency Anemia
- Q.1(B): Answer in short (5 out of 7) (Each worth 1 marks) 05 marks**
- (i) Full form of EQAS.
  - (ii) Give significance of CRP test.
  - (iii) Give an example of bile stain and non bile stain eggs.
  - (iv) Define Haemoglobinopathies.
  - (v) Define sterilization.
  - (vi) What is sickle cell anemia?
  - (vii) Difference between exotoxin and endotoxin.
- Q.2(A): Write short notes on any of the following (3 out of 5) (Each worth 5 marks) 15 marks**
- (i) Composition of CSF.
  - (ii) Classification of fungus.
  - (iii) Clinical features and Pathophysiology of Sickle cell Disease.
  - (iv) Short note on 'Autoclave'.
  - (v) Morphology of HIV virus.
- Q.2(B): Answer in short (5 out of 7) (Each worth 1 marks) 05 marks**
- (i) Who discovered Blood Grouping system?
  - (ii) Enlist Diarrhoeogenic E.coli
  - (iii) Enlist two function of CSF.
  - (iv) Full form of IQ.
  - (v) Which blood group is known as universal Blood donor?
  - (vi) Which bacteria shows catalase test positive?
  - (vii) Define False Positive test.
- Q.3: Write a detailed note on the following (2 out of 3) (Each worth 7.5 marks) 15 marks**
- (i) Describe the life cycle of Plasmodium vivax.
  - (ii) Write detail note on Megaloblastic Anaemia
  - (iii) Write in detail Laboratory diagnosis of fungal diseases.
- Q.4: Write short notes on any of the following (3 out of 5) (Each worth 5 marks) 15 marks**
- (i) How do you select a blood donor?
  - (ii) NACO strategies of HIV diagnosis.
  - (iii) G6PD deficiency.
  - (iv) Viral markers of Hepatitis B virus.
  - (v) Haemolytic Anemia