

PARUL UNIVERSITY
PARUL INSTITUTE OF APPLIED SCIENCES
MID SEMESTER INTERNAL EXAMINATION, MARCH 2020
B. Sc. Microbiology Semester IV

Paper Name: Medical Microbiology

Date: 06/03/2020

Paper Code: 11101251

Time: 1hr 30min

Max. Marks: 40

Instructions:

1. All questions are compulsory and options are given in first and second question only.
 2. Numbers to the right of question indicate the marks of respective question.
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Q. 1 Attempt any one question of the following. **(08)**

- (i) Give the detail pathogenesis, diagnostic principle and treatment of Cholera
- (ii) Explain the ABO blood grouping along with the role of Rh factor and symptoms of transfusion reactions occur due to ABO incompatibility.

Q. 2 Attempt any three questions of the following. **(12)**

- (i) Write the Symptoms and Pathogenesis of Tetanus.
- (ii) What are the Leukocytes? Explain different types of it.
- (iii) Write a short note on plasma proteins.
- (iv) What is haematopoiesis? Explain the different sites of haematopoiesis in humans.
- (v) What is urinalysis? Explain the methods of physical examination of urine.

Q. 3 Do as directed. Attempt all five questions. **(05)**

- (i) Which site of human body is known as permanent residence for hematopoietic stem cells
- (ii) Write any one function of urine.
- (iii) What you mean by positive chemotaxis?
- (iv) Which hormone controls the production of RBCs?
- (v) Which protein maintains the osmotic pressure of blood?

Q. 4 Write correct option in your answer sheet for following 15 multiple choice questions. **(15)**

MCQ 1 Which disease is sexually transmitted disease?

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|--------------|-------------|
| (A) Typhoid | (B) Cholera |
| (C) Syphilis | (D) Tetanus |

MCQ 2 Which of the following is water borne disease?

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|---------------|------------------|
| (A) Influenza | (B) Cholera |
| (C) Syphilis | (D) Tuberculosis |

MCQ 3 Which one of the following culturing media can culture Treponema pallidum ?

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|---------------------------------------|-----------------------------------|
| (A) TCBS | (B) MSA(mannitol salt agar) |
| (C) CNA(Colistin Nalidixic Acid agar) | (D) T.pallidum cannot be cultured |

MCQ 4 What is standard range of pH of urine in adults?

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|----------|---------|
| (A) 9-11 | (B) 3-5 |
|----------|---------|

- (C) 4-8 (D) Less than 3
- MCQ 5 The test done to analysis the protein content in urine is:
 (A) Sulphosalicylic acid White precipitate test (B) Benedicts reagent test
 (C) Fehling's reagent test (D) Ruthera's test
- MCQ 6 The Presence of bile salts in urine may occur be due to:
 (A) Jaundice (hemolytic or obstructive) (B) Renal calculi
 (C) Glomerulonephrit (D) Renal tract tumor
- MCQ 7 Which type of crystals are found in the acidic urine:
 (A) Uric acid crystals (B) Calcium oxalate crystals
 (C) Cystine crystals (D) All of them
- MCQ 8 Antibodies are produced by which type of immune cells?
 (A) T cells (B) B cells
 (C) Antigen presenting Cells (D) Neutrophiles
- MCQ 9 The condition where leukocytes number get reduced abnormally is known as
 (A) Leukocytosis (B) Leukopenia
 (C) Leukemia (D) None of them
- MCQ 10 Agglutination occurs if an antigen is mixed with its corresponding antibody is called as:
 (A) Isoagglutination (B) Transagglutination
 (C) Clumping (D) All of them
- MCQ 11 Red color of urine indicates which disease?
 (A) Jaundice (B) Hematurea
 (C) Cholera (D) Melanin
- MCQ 12 Increase in urine levels is known as:
 (A) Polyurea (B) Oligourea
 (C) Anurea (D) Both B and C
- MCQ 13 Which blood group is identifies as universal donor?
 (A) A (B) B
 (C) AB (D) O
- MCQ 14 How many blood group systems were recognized by the International Society of Blood Transfusion (ISBT) in October 2012?
 (A) 38 (B) 40
 (C) 35 (D) 33
- MCQ 15 Benzidine test of urine is done to identified:
 (A) Protein Concentration (B) Sugar Concentration
 (C) Ketose Concentration (D) Bile salt Concentration

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