

[58/A-15]

SEAT No. \_\_\_\_\_

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8c

SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar

T. Y. B.Sc. (VI Sem) Examination - 2018 [CBCS]

MONDAY, April 1, 2019 10:00 AM - 1:00 PM

US06CMIC04(MICROBIOLOGY) MEDICAL MICROBIOLOGY

Maximum Marks: 70

Q.1. Each question below gives a multiple choice of answers. Choose the most appropriate one. [10]

- 1 Blood anticoagulated with ACD or CPD and refrigerated between 2°C and 4°C can be stored for \_\_\_\_ days.  
(a) 21 (b) 35  
(c) 15 (d) 25
- 2 Hematopoiesis is production of \_\_\_\_\_.  
(a) Erythrocytes (b) Leucocytes  
(c) Thrombocytes (d) All of these
- 3 Antibiogram method was developed by \_\_\_\_\_.  
(a) Barson & Yalow (b) S. M. Southern  
(c) Bauer & Kirby (d) Louis Pasteur.
- 4 Quellung reaction is an example of \_\_\_\_\_.  
(a) Phagotyping (b) Serotyping  
(c) Immunoblotting (d) Isotyping
- 5 \_\_\_\_\_ is/are the methods of collection sample.  
(a) Swab (b) Catheter  
(c) Intubation (d) All of these
- 6 Increased level of serum uric acid is found in \_\_\_\_\_.  
(a) Gout (b) Hypothyroidism  
(c) Jaundice (d) Diabetes mellitus
- 7 High plasma non protein nitrogen means \_\_\_\_\_.  
(a) Hyperuricemia (b) Azotemia  
(c) Hyperlipidemia (d) None of these.
- 8 According to CDC bioterrorism affects  
(a) Humans (b) Plants  
(c) Animals (d) All of these
- 9 Typhoid bacilli were first observed by \_\_\_\_\_.  
(a) Koch (b) Delbruck  
(c) Eberth (d) Ehrlich
- 10 Cerebral malaria is a complication of infection with \_\_\_\_\_.  
(a) *P. vivax* (b) *P. malariae*  
(c) *P. falciparum* (d) All of these

**Q.2 Short Questions (Attempt any TEN)**

**[20]**

- 1 Define the terms plasma and serum.
- 2 What are the factors influencing erythropoiesis.
- 3 What is the difference between extrinsic and intrinsic system of coagulation mechanism.
- 4 Differentiate between direct and indirect Coomb's test.
- 5 Describe the principle of RIA.
- 6 What are three general classes of cell culture- Explain.
- 7 Define vaccine and enlist the different methods for the preparation of vaccine.
- 8 Write clinical significance of serum triglycerides.
- 9 Why are biological weapons more destructive than chemical weapons?
- 10 Write about the anti-tuberculosis drugs used for the control of tuberculosis.
- 11 What are the factors influencing the hospital infections
- 12 Which are the types of fevers caused by malaria parasite?

- Q.3 [A] Write a note on Erythropoiesis [05]**  
**[B] Explain the process of Blood Coagulation [05]**

**OR**

- Q.3 [A] Describe the criteria for the screening and rejection of a Donor [05]**  
**[B] Write a note on ABO blood group system [05]**

- Q.4 [A] What is a clinical specimen? Explain in detail the collection of various clinical specimens [10]**

**OR**

- Q.4 [A] Write a note on ELISA [05]**  
**[B] Explain the different types of immunodiffusion test. [05]**

- Q.5 [A] Write a note on Bioterrorism [04]**  
**[B] What are serum electrolytes and explain the clinical significance of each of them [06]**

**OR**

**Explain the different types of kidney function tests [10]**

**Q.5.**

- Q.6 Write detailed note on Malaria with reference to its symptoms, pathogenesis, transmission, lab diagnosis and its treatment and prevention [10]**

**OR**

- Q.6 Write detailed note on Tuberculosis with reference to its symptoms, pathogenesis, transmission, lab diagnosis and its treatment and prevention [10]**

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