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SARDAR PATEL UNIVERSITY
Microbiology Semester VI
Subject Code:US06CMIC04
Subject Title:-Medical Microbiology



Date: 27/6/2022, Monday

Time: 10:00 to 12:00 pm
 Total marks: 70

Q.1

MCQs: -Write the most appropriate answer with code in sequence, any anomaly leads to invalidation.

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- 1 _____ is the sample used for direct Coomb's test.
 (a) Plasma of mother (b) Plasma from placenta
 (c) Urine of mother (d) Whole blood of recipient
- 2 The liquid separated following blood collected without incorporation of anticoagulant is _____.
 (a) Serum (b) Plasma
 (c) Buffy coat (d) Electrolytes
- 3 _____ ml of 3.8% of tri-Na-citrate anticoagulant to _____ ml volume of blood is correct proportion for ESR.
 (a) 0.5-1.5 (b) 0.2-3.8
 (c) 0.1-0.9 (d) 0.4-1.6
- 4 The normal range of total thrombocytes in human is _____ / μ l.
 (a) $5-11 \times 10^6$ (b) $3-5 \times 10^3$
 (c) $1-5 \times 10^5$ (d) $4-10 \times 10^3$
- 5 Rhodamine B is used in _____.
 (a) Immunofluorescence (b) WB
 (c) RIA (d) Immunoelectrophoresis
- 6 *Rosalyn Yalow* a Nobel prize winner scientist developed _____, in 1977.
 (a) WB (b) RIA
 (c) Immunofluorescence (d) EIA
- 7 Increased creatinine level leads to _____.
 (a) Renal disorder. (b) Heart disorder.
 (c) Pancreatic disorder. (d) None of the above.
- 8 _____ is typical shape of gametocyte is observed with *P. falciparum*
 (a) Orange (b) Mushroom
 (c) Pineapple (d) Banana
- 9 Determination of total protein in serum is useful as diagnostic test in which of the following disorders?
 (a) Optic defects (b) Hepatic disorder
 (c) Heart dysfunction. (d) None of these.
10. Which one of the following drug is used to treat AIDS?
 (a) Ritonavir (b) Streptomycin.
 (c) Remdecivir (d) Anti-HIV Ig

(P.T.O.)

Q.2 a) Fill in the gaps.

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- 1 Megakaryocyte is ultimately matured into _____.
 - 2 Urine sample must be _____ if delay of few hours, in clinical microbiology.
 - 3 Determination of ALP is part of _____ function test.
 - 4 _____ & _____ are malignancies typically associated with HIV infection.
- b) State True or False.

- 5 Hypochromic anaemia is caused by malnutrition of ferrous ion.
- 6 RIA is expensive procedure.
- 7 Poorly resolved ag-ab reaction is found with immunoelectrophoresis.
- 8 AIDS was the new disease caused outbreak from China in 1970.

Q.3

Give short answers to the following questions. Opt Any Ten

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- 1 Expand the following acronyms: RID, SGOT, CPD, PLT
- 2 Write name of following clotting factors I, II, IV and X.
- 3 Define: lymphocyte, phlebotomist.
- 4 Erythropoiesis.
- 5 Clinical significance of serum Urea.
- 6 Compare and contrast: Fomite -Vector,
- 7 Mancini method.
- 8 Write on various swabs used for collection of sample.
- 9 Give brief idea Nosocomial infections.
- 10 How could you do cheap and quick identification of Koch's bacilli?
- 11 Draw labelled diagram of HIV.
- 12 Treatment & prophylaxis of TB.

Q 4

Answer following Long Question: -Attempt any FOUR

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- 1 Enlist and write detail note on nucleated formed cells of blood.
- 2 Blood bank is essential institute to safeguard blood transfusion-justify.
- 3 Describe the way of collection and handling of Urine, Sputum, CSF and Blood for clinical microbiology laboratory.
- 4 Write brief notes on
a. Bacteriophage typing. b. Kerby Bauer method.
- 5 Vaccines
- 6 Cardiac function tests
- 7 Write elaborative note on Typhoid
- 8 Write detail note on benign form of Malaria

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