



Written exam for Diploma degrees in
Tropical Diseases; April, 2017

Number of Questions: 5
The exam in: 2 page

Time allowed: 3 Hours.
Total: 90 marks.

All questions should be attempted

Question I: (25 marks)

- a- Define herd immunity and mention its requirements? (5 marks)
- b- Vaccination against meningococcal meningitis & advantages of conjugate vaccine? (8 marks)
- c- Enumerate different types epidemiological studies (study designs)? (5 marks)
- d- Mode of transmission and reservoir of Lassa fever? (7 marks)

Question II: discuss (25 marks)

- a- Preventive measures for Rift valley fever? (6 marks)
- a- Causative agents, mode of transmission and reservoirs of dengue fever? (7 marks)
- b- Different modes of transmission of communicable diseases (6 marks)
- c- Causative agents, mode of transmission and occupations at risk of brucellosis? (6 marks)

Question III: (20 marks)

A 28 years old female health care worker came from Saudi Arabia (KSA) to Cairo international airport yesterday and was suffering from high fever, cough, respiratory distress in need of hospitalization and ventilation. She was dealing with hospitalized cases in ICU in KSA suffering from similar disease. Her last contact was 5 days before travel to Egypt. Since the year 2012 till now, KSA reported most of the disease cases all over the world which may be because the disease reservoir in present in dromedary camels which are common in Arabia peninsula.

- 1-What is the most probable diagnosis and how you confirm your diagnosis? (7 marks).
- 2-Why the disease is considered by the WHO to be a serious public health threat to humans? (8 marks).
- 3- Enumerate different types of plasmodium causing of malaria? (5 marks)

Question IV- MCQs: give one best answer for the following (2 mark each – Total 10 marks) (5 questions)

1. **Pre-exposure immunization against rabies include all the following except:**
 - a. Veterinarians.
 - b. Zoo workers.
 - c. Night guards.
 - d. physicians
2. **Incubation period of Ebola virus (reservoir) is.**
 - a. 2-4 months.
 - b. 2-20 weeks.
 - c. 2-21 days.
 - d. 2-14 days.
3. **Risk for chronic hepatitis C disease development for infant infected during the first year of live is:**
 - a. about 90%.
 - b. 30-50%.
 - c. 5-25%.
 - d. none of the above.
4. **Endemic means:**
 - a. Epidemic spread of disease over some countries of the world.
 - b. Constant persistence of a particular disease in a locality.
 - c. Epidemic spread of disease within a closed or confined community.
 - d. Epidemic spread of disease between animal populations.
5. **All the following are types of surveillance except:**
 - a. Passive.
 - b. Active.
 - c. Sentinel.
 - d. Comprehensive surveillance.

Question V – TRUE/FALSE: give one best answer for the following (2 mark each – Total 10 marks): (5 questions)

1. **Screening** refers to the application of a medical procedure or test apparently healthy people who as yet have no symptoms of a particular disease, for the purpose of determining their likelihood of having the disease.
2. **Mode of transmission of plague by flea bites.**
3. **Mode of transmission of malaria fever by female anopheles mosquitoes bites. (T)**
4. **Positivity Serologic testing for surface antibody in hepatitis B:** indicates immunization against the virus whether due to natural infection or immunization.
Mode of transmission of west Nile fever by bite of infected Culex mosquito?

Good Luck

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