



الورقة الثانية

Infectious diseases and nutrition

I- CASE SCENARIO: (60 MARKS)

A 28-year-old man with a complaint of three days of fever with body ache is admitted. He has an average body build with petichae over his arms and legs and no organomegaly. The medical and family histories are unremarkable, but he has recently returned from a trip to Malaysia. His blood picture revealed hemoglobin 12.3 g/dL, WBCs 3,200/mm³, platelets 16,000/mm³. ALT 50 IU, AST 45 IU. Renal functions were within normal.

A. What is the most likely diagnosis? (30 marks)

B. What are the diagnostic investigations that may be used? (30 marks)

11-MCQ (80 marks, 2 marks each)

- Which of the following statements concerning cholera is true?
 - Compared to the classical biotype, the El Tor strain produces more severe illness
 - It causes an inflammatory cell infiltrate in the lamina propria of the mucosa of the small intestine
 - It causes muscle cramps
 - It has an incubation period of 10-15 days
- Populations at highest risk of acquiring C. difficile infection (CDI) are?
 - Pediatric patients, peripartum women, and outpatient surgery patients
 - Persons with no recent healthcare contact, adolescents, and older men
 - The elderly, adolescents, and peripartum women
 - The elderly, those receiving antibiotics, and those with long hospital stays

3. Which of the following is true regarding the Rabies Immunoglobulin?
- A. At least half the dose should be infiltrated around the wound
 - B. Can only be given within 1 week of a bite
 - C. If you are really concerned can be given IV in very high-risk cases
 - D. Is only manufactured as a human immunoglobulin
4. Each of the following statements concerning Giardia lamblia is correct **EXCEPT?**
- A. Can be diagnosed by the string test
 - B. Causes hemolytic anemia
 - C. Has both a trophozoite and cyst stage in its life cycle
 - D. Is transmitted by the fecal oral route from both human and animal sources
5. Recognized features of infectious mononucleosis include all of these **EXCEPT?**
- A. Aseptic meningitis
 - B. Palatal petechial hemorrhages
 - C. Splenomegaly
 - D. Vesicular rash on neck and trunk
6. Describe the coronavirus structure?
- A. A double stranded DNA virus
 - B. A small barrel shaped virus
 - C. An icosahedral large pleomorphic virus
 - D. Surface has club shaped glycoprotein spikes
7. Prevention of endemic relapsing fever is by?
- A. Construction of concrete floors and improved walls
 - B. Heat sterilization of clothing
 - C. Daily intake of doxycycline
 - D. Provision of clean drinking water

8. Which of the following is the infective stage of *Fasciola hepatica*?
- A. Cercariae
 - B. Metacercariae
 - C. Miracidia
 - D. Sporocysts
9. Which one of the following food poisoning bacteria may be associated with paralysis?
- A. *Bacillus cereus*
 - B. *Clostridium botulinum*
 - C. *Salmonella*
 - D. *Staphylococcus aureus*
10. Which of the following is true regarding treatment of enteric fever?
- A. Amoxicillin and co-trimoxazole combination is the current standard of care
 - B. Ciprofloxacin is the treatment of choice for adults
 - C. Dexamethasone is contraindicated
 - D. If perforation of the bowel occurs it should be managed conservatively because surgery carries too high a mortality
11. A 46-year-old, with a history of hypertension and diabetes mellitus type 2, presents to the emergency department with abdominal pain and fever. She denies any travel history or sick contact. She mentions fullness in the right upper quadrant area. She also reports having spent a day with friends and their pet dogs. After imaging, which test can be used to confirm the diagnosis?
- A. ELISA
 - B. Liver biopsy
 - C. Stool antigen
 - D. Urea breath test
12. Fish is the intermediate host for which of the following?
- A. *Clonorchis sinensis*
 - B. *Paragonimus westermani*
 - C. *Schistosoma japonicum*
 - D. *Schistosoma mansoni*

13. Which of the following statements regarding diphtheria is true?
- A. "Bull neck" appearance is diagnostic
 - B. Host immune reaction to the organism is responsible for the disease manifestations
 - C. It is caused by gram negative bacilli
 - D. Palatal paralysis is a recognized complication
14. If a person has been exposed to anthrax, which of the following CANNOT be used to prevent the disease?
- A. Amphotericin
 - B. Ciprofloxacin
 - C. Doxycycline
 - D. Levofloxacin
15. Which of the following infections is a zoonosis?
- A. Cholera
 - B. Leprosy
 - C. Leptospirosis
 - D. Syphilis
16. A fever of two weeks' duration associated with neutropenia is characteristically due to?
- A. Amoebic liver abscess
 - B. Brucellosis
 - C. Infectious mononucleosis
 - D. Influenza b
17. Meningitis caused by *Listeria monocytogenes* occurs most likely in which category of patient?
- A. Cystic fibrosis
 - B. Hodgkin's disease
 - C. Recent travel abroad to the Tropics
 - D. Recent treatment with broad spectrum antibiotics