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Tanta University
Master \& Diploma Examination
Faculty of Medicine
Number of Questions: 3
Department of Tropical Medicine \& Infectious diseases
October 5, 2013
Time Allowed: 3 Hours
Total: 50 Marks


## Hepatology \& GIT

## All questions must be answered

## I. Case scenario: .

A 33-year-old man who has undergone renal transplantation is on maintenance immunosuppression with cyclosporine, azathioprine, and prednisone. He frequently travels to Africa and is interested in receiving hepatitis $A$ vaccination. His physical examination is otherwise normal. Results of laboratory studies are as follows: alanine aminotransferase (ALT), $15 \mathrm{U} / \mathrm{L}$; bilirubin, $1.0 \mathrm{mg} / \mathrm{dL}$; albumin, $3.5 \mathrm{~g} / \mathrm{dL}$; international normalized ratio (INR), 0.9 ; hepatitis B surface antigen (HBsAg), negative; antibody to hepatitis $B$ core antigen (anti-HBc), negative; and antibody to hepatitis $C$ virus (anti-HCV), positive.

Which of the following is true regarding the use of hepatitis A vaccine in this patient? Why?

1. He should be vaccinated because it is safe and he may mount a protective antibody response.
2. He should not be vaccinated because he has chronic hepatitis $C$ and vaccination could precipitate liver failure.
3. He should not be vaccinated because the vaccine is ineffective in immuno-suppressed patients.
4. He does not need to be vaccinated because he is not likely to be exposed to hepatitis $A$.

## II. MCQs:

1. In chronic HCV infection, higher viral load levels are associated with:
a. Higher indication for antiviral therapy
b. Higher grade \& stage of liver disease
c. Higher progression of the liver disease
d. None of the above
2. HCC is not associated with:
a. Liver cirrhosis
b. $a_{1}$ antitrypsin deficiency
c. HAV infection
d. Haemochromatosis
e. Androgen and estrogen ingestion
3. In cases with constipation alternating with diarrhea, what do you do first?
a. Refer for surgical inspection.
b. Digital rectal exam.
c. Colonoscopy.
d. Barium enema.
4. What is MELD score?
a. Choose the method of interventional treatment of HCC .
b. Define priority for liver transplantation.
c. For preoperative evaluation.
d. Prognostic score.
5. Small HCC with portal vein thrombosis, jaundice, and ascites can be treated with:
a. Radio Frequency ablation.
b. Best supportive care.
c. TACE.
d. Microwave ablation.
6. Chronic pancreatitis may be reliably diagnosed in a patient presenting with:
a. Calcification in the pancreas detected on a flat plate $x$-ray of the abdomen
b. Abdominall pain
c. Diarrhea
d. Nausea and vomiting
e. Jaundice
7. Which clinical or laboratory finding is most consistently seen in malabsorption syndromes:
a. Hypercalcemia
b. Iron overload
c. Elevated zinc levels in serum
d. Normal small bowel biopsy
e. Steatorrhea
8. Which of the following is seen most commonly in association with primary biliary cirrhosis (PBC):
a. Positive antinuclear antibody (ANA)
b. Increased ceruloplasmin
c. Increased ferritin
d. Positive hepatitis B surface antigen
e. Positive antimitochondrial antibody
9. A 58 -year-old white man presents to your office with a history of losing 15 Kg in the last 3 months. In the past month, he has had substernal chest pain and dysphagia for solid foods. For 35 years, he has had heartburn at least 3 times per week. He used to take bicarbonate for relief of his heartburn. What is the most likely diagnosis in this patient?
a. Erosive esophagitis
b. Esophageal ulcer
c. Pill esophagitis
d. Esophageal adenocarcinoma
e. Benign esophageal stricture
10. The treatment of chuice of spontaneous bacterial empyema in cirrhotic patient is:
a. Chest tube and third generation cephalosporins.
b. Ampicillin plus aminoglycosides.
c. Third generation cephalosporins.
d. No empirical antibiotic treatment until pleural fluid culture positivity.
e. Chest tube and ampicillin plus aminoglycosides.
11. Which of the following clinical symptoms compose the clinical triad in patients with Budd-Chiari Syndrome?
a. Abdominal pain, jaundice, hepatomegaly.
b. Abdominal pain, ascites, hepatomegaly.
c. Abdominal pain, anorexia, Ascites.
d. Ascites, jaundice, hepatomegaly.
e. All of the above.
12. In chronic HCV infection, AST \& ALT levels are important determinants of:
a. Indication for antiviral therapy
b. Underlying pathology
c. Response to antiviral viral therapy
d. None of the above
13. The following precipitates hepatic encephalopathy except :
a. Laparoscopic cholecystecomy
b. Urinary tract infection
c. Acetaminophen 2 gm per day for back pain
d. Variceal bleeding
14. Which of the following is considered the most accepted mechanism of action of lactulose in patients with hepatic encephalopathy?
a. Elimination of bacteria
b. Acidification of the colon
c. Promotion of lactobacillus
d. Inhibition of bacterial amino acid metabolism
15. The commonest isolated organism in cases of SBP is:
a. Staphylococcus aureus
b. Streptococcus milleri
c. E. coli
d. Bacteroides fragilis
e. Salmonella typhi
III. Answer the following questions: ( 25 marks)
16. Discuss in short: Causes of esophageal dysphagia.
17. Write short notes about: Management of refractory ascites. (5 marks)
18. Mention: Causes, clinical picture, diagnosis \& treatment of acute pancreatitis. (5 marks)
19. Write short essay about: HEELP syndrome.
20. Enumerate: Causes of high and causes of low serum alkaline phosphatase. (5 marks)

Tanta University
Faculty of Medicine
Department of Tropical Medicine \& Infectious diseases
October 9, 2013

Master \& Diploma Examination
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Time Allowed: 3 Hours
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## Infectious \& Endemic Diseases

## All questions must be answered

## I. Case scenario:

(10 marks)
A 62 -year-old woman presents to the emergency department with a high fever, weakness, and malaise. She denies vomiting, dysuria, cough, or diarrhea. She has been receiving a six week course of antibiotics at home for osteomyelitis of her left foot. Her semi-permanent intravenous line in her arm has not been replaced for the past three weeks.
Her temperature is 38 C , blood pressure is $150 / 80 \mathrm{~mm} \mathrm{Hg}$, pulse is $96 /$ minute, and respirations are
 midclavicular line. Her lungs are clear and her abdominal examination is normal. Her fingernails show small longitudinal splinter-type lesions. The skin at the intravenous site looks normal.
A chest $x$-ray film showed no effusion.
Laboratory studies show: Hemoglobin= $12.2 \mathrm{~g} / \mathrm{dL}$, Hematocrit= $35.3 \%$, White blood cell count $(W B C)=16,100 / \mathrm{mm} 3$, Platelets $=283,000 / \mathrm{mm} 3$.
Urine is negative for blood, protein, nitrites, and leukocyte esterase.
What is the most likely diagnosis? Confirm your diagnosis?

## II. MCQs:

(15 marks)

1. Which of the following is true about Koplik's spots?
a. Are diagnostic of Measles
b. Located opposite the incisor teeth
c. Only appear when fever is over $39^{\circ} \mathrm{C}$
d. They appear as red papules on the plamar surface of the hands
e. Typically appear two days after the rash
2. Clinical features of toxoplasmosis include the following except:
a. Microcephaly
b. Choroidoretinitis
c. Cervical lymphadenopathy
d. Mouth ulcers
e. Generalised lymphadenopathy
3. As regard Falciparum malaria the only false statement is:
a. Acute infection is not associated with splenomegaly
b. Is associated with periodic fever in a minority of cases
c. Has an incubation period of 8-15 days
d. May present as a gastroenteritis
e. May be treated with quinine
4. The following are not characteristic features of acute hepatitis B except:
a. Most patients present with splenomegaly.
b. It confers immunity to hepatitis $A$.
c. There is increased infectivity in the presence of the $E$ antigen.
d. Pruritis is an important early symptom.
5. Subcutaneous nodules are a typical finding in except:
a. Neurofibromatosis
b. Cysticercosis
c. Onchocerciasis
d. Trichinosis
6. The followings may present with fever and diarrhea except:
a. Malaria
b. Entamoeba coli
c. Dengue
d. Campylobacter enteritis
e. Brucellosis
7. As regard Hepatitis $A$, the following are true except:
a. The virus has a single stranded RNA
b. The incubation period is $2-6$ weeks
c. Is usually acquired by consumption of faecally contaminated food or water
d. Is maximally infectious at the peak of jaundice
e. Can be prevented by active immunisation
8. What is the most common cause of vitamin B12 malabsorption?
a. Pancreatic insufficiency
b. Bacterial overgrowth syndrome
c. Crohn's disease involving the terminal ileum
d. Pernicious anaemia
e. lleal resection
9. Treatment of pseudomembranous colitis includes all the following except:
a) Oral metronidazole
b) Intravenous vancomycin
c) Oral vancomycin
d) Probiotics
10. The correct Nomenclature of the following fatty acid is:
a. $18: 3 \omega-6$
b. $18: 2 \omega-6$
c. $18: 2 \omega-9$
d. $18: 4 \omega-6$
11. Which nematode does not have pulmonary infiltrate with eosinophelia in the acute stage?
a. Hookworms
b. Ascaris
c. Enterobius
d. Strongyloides
12. Microcytic hypochromic anemias include the following except:
a. Iron deficiency anemia
b. Anemia of chronic disorders
c. Spherocytosis
d. Sidroblastic anemia
e. Thalassaemia
13. All hemolytic anemias cause splenomegaly and can be improved with splenectomy except :
a. Sickle cell anemia
b. G6PD deficiency
c. Thalassaemia
d. Spherocytosis
14. As regard Hookworm, the following statements are wrong except:
a. Is usually spread by the faeco-oral route
b. Is usually diagnosed by microscopy of adhesive tape prints taken from the perianal area
c. May block the pancreatic duct causing pancreatitis
d. The eggs of Necator americanus and Ancylostoma duodenale are indistinguishable on light microscopy.
e. Commonly causes diarrhoea in non-immunes
15. Enteric fever is characterized by the followings except:
a. Bone marrow culture increases diagnostic yield in those previously given antibiotics.
b. Is zoonotic
c. Leucocytosis would be against a diagnosis of typhoid
d. The incubation period is usually $7-21$ days.
e. Rose spots occur in typhoid but not paratyphoid fever

## III. Answer the following questions: (25 marks)

1. Discuss in short: Travelers' diarrhea.
2. Enumerate: Common causes of aseptic meningitis.
3. Write short notes on: Resistant typhoid.
4. Mention: Management of Toxoplasmosis in pregnancy.
5. Write short essay about: Nutritional anemias.
