UNIVERSITY OF NAIROBI

UNIVERSITY EXAMINATIONS 2014/2015

FIFTH YEAR EXAMINATIONS FOR THE DEGREE OF BACHELOR OF MEDICINE AND

BACHELOR OF SURGERY

HME 500: MEDICINE-MCQ

DATE: OCTOBER 29, 2015

TIME: 9.00 A.M. - 12.00 NOON

## INSTRUCTIONS:

- 1. There are 100 Multiple Choice (MCQs) Questions in this paper. Ensure that your paper has all the questions.
- 2. Each question has ONE BEST ANSWER.
- 3. There is no negative marking for incorrect responses.
- 4. No mark will be given if more than one answer is marked in a single question.
- 5. An answer sheet is provided where all your answers should be appropriately marked as instructions.
- 6. The examination paper should be left in the examination room.

1. All of the following statements regarding vitamins are true EXCEPT: Cholestasis is associated with Vitamin C deficiency B. Vitamin A deficiency is associated with development of Bitot's spots. C. Haemorrhage is a complication of vitamin K deficiency. D. Vitamin E is an antioxidant E. Vitamin D is fat soluble 2. An 80 year old man on a course of levoflaxacin for pneumonia develops abdominal pain, fever and profuse diarrhoea. Which one of the following is an APPROPRIATE step in his management? A. Continue current antibiotic treatment B. Initiate oral vancomycin . Initiate ceftriaxone D. Initiate oral clindamycin E. Initiate oral cotrimoxazole 3. A patient presents with diarrhea, confusion and necklace - like dermatitis around the neck. Which ONE of the following should be given to reverse the clinical picture? Diarrhoea, dematitis, demenha A. Thiamine - Benber B, B. Folic acid 640 C. Cyanocobalamin -Biz D. Pyridoxine - (B6) - INH Niacin Biz - Peliagra 4. A young boy who has lived near Lake Baringo all his life has been unwell for 2 months with fever, weight loss and anaemia. Abdominal examination is significant for splenomegaly of 20 cm and hepatomegaly of 14cm. What is the MOST likely diagnosis? A. Disseminated tuberculosis B. Hydatid disease C. Schistosomiasis with portal hypertension D. Visceral leishmaniasis E. Chronic myeloid leukemia S. Recognized precipitating factors for acute decompensated heart failure in predisposed individuals include all of the following EXCEPT: A. Acute rheumatic fever B. Atrial fibrillation Excessive physical exertion D. Non-compliance with pharmaco-therapy E. Upper respiratory tract infection 6. A 34 year old man with diabetes mellitus and hypertension comes for a check up. Urea, electrolytes and creatinine are normal. He has microalbuminuria of 120mg/24 hours. All of the following statements are true regarding appropriate measures to slow down progression of his renal disease EXCEPT: A. Aggressive control of hyperglycemia B. Blood pressure target should be between 140/90 to 150/95 mmHg C. Reduction of microalbuminuria D. Smoking cessation E. Angiotensin converting enzyme inhibitor (ACE I) therapy

- 7. A 15 year old asthmatic boy presents with history of recurrent skin lesions on neck, antecubital fossa and popliteal fossa since infancy. All of the following clinical signs are expected EXCEPT: A. Crusted lesions B. Lichenification C. Excoriation marks D. Purpura E. Weeping lesions. 8. A young man admitted in moderate respiratory distress is found to have finger and toe clubbing. All of the following respiratory conditions associated with finger clubbing
  - should be looked for in this patient EXCEPT: Enter and the prince (the less )
    - A. Empyema thoracis
    - Pleural effusion
    - C. Pulmonary fibrosis
    - D. Mesothelioma
    - E. Bronchogenic carcinoma
    - 9. A 50 year old Kenyan man has progressive dysphagia. Examination reveals pallor and koilonychia. Which one of the following is the MOST likely cause?
      - A. Necator americanus infestation
      - Carcinoma of the oesophagus
      - C. Ancylostoma duodenale infestation
      - D. Bleeding oesophageal varices
      - E. Dietary lack of green leafy vegetables
    - 10.) Which one of the following conditions is CORRECTLY matched with the diagnostic test of choice?
      - A. Dermatomyositis Serum creatinine kinase
        - B. Gout Weakly positively birefringent crystals
        - C. Pseudogout Negative birefringent crystals
        - D. Rhematoid arthritis-Anti-double stranded DNA antibodies
        - E. Systemic lupus erythermatosus Anti citrullinated cyclic peptides (CCP) antibodies &
  - 11. A 70 year old right handed man presents with a stroke involving the right middle cerebral artery territory. On exam, he has normal language with weakness of his left arm and face. What other abnormality are you MOST likely to find on further neurological evaluation?
    - Aphasia B. Disorientation
    - C. Hallucinations
    - Neglect
    - E. Somnolence

12. A 19 year old teenager has recurrent shoulder dislocation and is due for surgical repair. However, his blood pressure is found to be between 160/106 mmHg and 140/92mmHg many times, but occasionally is normal. Urinalysis is normal. All of the following investigations are most useful EXCEPT: A. Abdominal CT scan B. Brain CT scan D. 24 hour urinary vanillyl-mandelic acid (VMA) 13. Which one of the following poisons/drugs is CORRECTLY matched with its antidote? E. Serum metanephrines A. Benzodiazepines - N - agetylcysteine B. Methanol - Fomepizole C. Opiates - Pralidoxime x D. Organophosphates - Flumazenil y E. Paracetamol - Naloxonex 14. A 65 year old man presents with insidious onset of altered bowel habits. He also gives a history of recent bowel obstruction which was only relieved by an enema. Investigations revealed iron deficiency anaemia. Known predisposing factors for this condition include all of the following EXCEPT: A. Low fibre/high fat diet V B. Esomeprazole use C. Obesity ./ D. Positive family history E. Inflammatory bowei disease V 15. Which one of the following statements regarding schistosomiasis is TRUE? A. Schistosoma mansoni ovum has a terminal spine tutercu C. Bulinus spp is the intermediate host for S. mansoni S reserving them. B. Praziquantel is given as a deep intramuscular injection D. A single dose of praziquantel is the treatment of choice E. Schistosomiasis is acquired from sea Water & Fresh Inc 16. Which one of the following ECG abnormalities is CORRECTLY matched with the corresponding clinical enticity? A. Absent 'P' wave - Wolf-Parkinson-White syndrome B. Delta wave - Atrial fibrillation - 1861 - 1861 - 1861 - 1861 C. P pulmonale - Mitral valve disease D. P mitrale - Pulmonary hypertension - Quantity designation E. Low QRS voltage - Hypothyroidism 17. You are managing a man with longstanding diabetes mellitus and hypertension. He has gradually developed oedema and anaemia. He recently developed hyperkalemia and Which one of the following acidosis as he approached end stage renal disease (ESRD). statement regarding the management of this patient is TRUE? A. Alkali therapy can help treat the acidosis B. Target haematocrit value for erythropoietin therapy is 25% C. Pre-dialysis erythropoietin is not indicated 7 D. Constipation should be avoided because it can worsen hyperkalemia E. Strict blood pressure control is of no value at this stage Page 4 of 19

18. A 28 year old female presents with generalized erythema and scale for 2 weeks. All following skin functions are compromised in this patient EXCEPT:	of the
A. Protection from microbial invasion.	
B. Protection from fluid and electrolyte loss V	
Z. Sensory function	
D. Thermoregulatory function	
E. Protein homeostasis	
The first of the second of the	
19. A 41 year old man admitted for management of heart failure develops a cough, chest and fever after 1 week in the hospital. Which one of the following antibiotics is the B empiric choice?	pain EST
A. Amoxicillin - clavulanicacid	
B. Clarithromycin	
Ceftazidime / Carallanding	
D. Cefuroxime	
E. Flucloxacillin	
20. A 40 year old woman has had symptomatic uterine fibroids for the past 5 years. presents with fatigue, listliness and palpitations. She has pallor and koilonychia. Red indices show MCV 52fl(normal-76-96fl). Which one of the following statements is TR regarding her condition?	cell
A. Total iron binding capacity is decreased **X'	
B. Serum ferritin levels are decreased /	
C. Subacute degeneration of the cord is a known complication *	
D. Target cells are expected on peripheral blood film examination	
E. Thrombocytopenia is associated $\gamma$	
21. All of the following statements regarding low back pain are true EXCEPT:	
Affect men and women equally	
B. Most common between 30 and 50 years	
C. Affects 2/3 of adults	
D. Majority persist beyond 6 months &	
E. Can be due to aortic aneurysm	
22 Which wind not be a single state of the sin	
<ul> <li>22. Which viral pathogen is associated with primary CNS lymphoma in immunocomprominations?</li> <li>A. Cytomegalovirus (CMV)</li> </ul>	sed
B) Epstein-Barr virus (EBV)	
C. Enterovirus	
D. Herpes simplex virus (HSV)	
JE JC virus - progressive multipered letter receptralepolity.	
A 48 year old asthmatic woman lately has progressive weakness and amenorrhoea. She noted change of body habitus with truncal obesity and hypertension. Her clinical feature may be explained by all of the following EXCEPT:  A. Adrenocortical tumour	has
B. Lung tumour	
C. Pituitary tumour	
D. Prolonged steroid therapy Pears in the Constitution of the Cons	
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24. A patient who went for routine medical check up was found to have the following  HBsAg positive HBcAb IgG positive HBeAg negative HBV DNA 200 Iu/mL Alanine aminotransferase (ALT)15 Iu/L	
Which of the following BEST fits the clinical scenario?  Active chronic hepatitis B	
B. Occult hepatitis B	
C. Inactive hepatitis B	
D. Post vaccination against hepatitis B	
E. Acute hepatitis B X	
25 + 20 grant abdominal pain of 2 days	
25. A 30 year old man presents with severe right upper quadrant abdominal pain of 2 days duration. His examination is significant for an enlarged tender liver and right lower intercostal tenderness and a temperature of 40°c. The hemogram reveals leucocytosis. All of the following are true EXCEPT:  **X. Right pleural effusion is an expected finding **A.	
The contract of the contract o	
C. History of dysenters in the past is relevant.	
D. Examination of stool-should be carried out	
E. Chest radiograph will reveal useful information	
26. Complications of mitral stenosis include all of the following EXCEPT:  A. Atrial fibrillation –   B. Infective endocarditis	
Right atrial thrombus was sometimes and the second	
D. Right heart failure ~	
E. Pulmonary hypertension	
27. All of the following infectious agents are well-matched with their common renal manifestations EXCEPT:	
A LITY infection - Focal segmental glomeruloscierosis	
Des D. falcingrum - Nenhrotic syndrome tuble with a six	
C Strantococcal infection - Acute nephrilic syndrome	
D S haematohium - Obstructive uropaury	
E. T. Pallidum - Nephrotic syndrome V	
28. A 20 year old man presents with widespread well marginated silvery scaly papules and plaques on an erythematous base. Auspitz sign is positive. Investigations should include plaques on an erythematous base.	
all of the following EXCEPT.	
A Tirea electrolytes and creatining v	
B. Random blood glucose &	
C: Lipid profile (COL) preparation - 44-401 BP	
D Potassium hydroxide (KOH) propin and	
E. Liver function tests	
100	

- 29. A 22 year old man presents to the emergency department with a 3 day history of fever, cough and pleuritic chest pain. His temperature is 39°C; pulse rate is 110 beats/min and respiratory rate is 26 breaths/min. Chest radiograph reveals an opacity in the right lower lung zone. Which one of the following is the MOST common cause of this condition? B. Mycoplasma pneumoniae C. Pseudomonas aeruginosa D. Staphylococcus aureus E. Streptococcus pneumoniae ~ 30. A 16 year old girl has bilateral haemathrosis of elbow joints. She has a fluctuant right knee that is tender. She has been bleeding from a venepuncture site for the past 24 hours. Which one of the following is the MOST likely diagnosis? A. Classical hemophilia B. Christmas disease & Von Willebrand's disease D. Disseminated intravascular coagulopathy (DIC) E. Protein C deficiency 31. All of the following are common causes of carpal tunnel syndrome EXCEPT: A. Acromegaly B. Hyperthyroidism C. Pregnancy D. Osteoarthritis E. Rheumatoid arthritis -32. Which one of the following is NOT a risk factor for ischemic stroke A. Atrial fibrillation B. Berry aneurysms C. Carotid artery atherosclerosis Dr. Prosthetic heart valves E. Sickle cell disease
- 33. A 47 year old woman presents to the clinic with severe and progressive generalized bone pains for the past 3 years. Morning cortisol 10ug/dl(Normal 5-25 ug/dl). Bone mineral density is -2.5SD. Serum proteins are normal including electrophoresis. The MOST likely diagnosis is:
  - A. Osteomalacia
  - B. Osteoporosis
  - C. Osteonecrosis
  - D. Osteopetrosis
  - E. Multiple myeloma
  - 34) A patient presents with bloody diarrhea and stool analysis revealed amoebic trophozoites. Which ONE of the following findings is seen in this condition?
    - A. Diffuse colonic inflammation
    - B. Colonic ulcers with intervening normal mucosa x
    - C. Many pus cells in stool

D. Crypt abscesses are seen at histology and a weeking a line.

E. Involvement of the terminal its

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35. A 25 year old woman is found to be HIV positive with a CD<sub>4</sub> count of 62 cells/ml. While one of the following is **NOT** an appropriate step in her management?

A. Initiate Pneumocystis jirovecii pneumonia (PJP) prophylaxis

B. Do a serum cryptococcal antigen (CRAG) test

12. Initiate Mycobacterium avium Complex (MAC) prophylaxis

D. Screen for pulmonary tuberculosis

E. Initiate antiretroviral therapy (ART)

36. A 45 year old man is seen by his family doctor for a minor ailment. He is found to have a BMI of 32kg/m<sup>2</sup> and a blood pressure (BP) of 152/95mmHg. A repeat BP measurement after 5 minutes is 149/91 mmHg. The rest of the examination is normal. Which of the following measures is NOT appropriate?

A. Reducing dietary salt

B. Starting pharmacologic therapy

C. Aerobic exercises

D. Relaxation therapy

E. Increasing fruit and vegetable intake

37. In a patient with eGFR below 20ml/min, the following medications should be avoided EXCEPT:

A. Amikacin

7,-120

- B. Amoxycillin
- & Diclofenac warmy
- D. Spironolactone
- E. Metformin
- 38. The differential diagnosis for a grouped vesicular eruption include all of the following EXCEPT:

A. Herpes simplex

- B. Varicella, zoster eruption
- C. Herpes (pemphigoid) gestationis
- D. Dermatitis herpetiformis
- E. Pemphigus foliaceous
- 39. A 50 year old woman from Turkana County presents with proptosis of her left eye which is progressive. Examination of the abdomen reveals multiple masses. Which one of the following statements is TRUE regarding her condition?
  - A. The most likely diagnosis is tuberculosis

B. Burkitt's lymphoma is highly likely

C. The proptosis and the abdominal finding are likely to be related

- D. Ultrasound guided needle aspiration of one of the abdominal masses is indicated
- E. Eating partially cooked meat could have contributed to the problem
- 40. A strict vegetarian presents with general malaise, exertional dyspnoea and pallor.

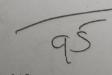
  Peripheral blood film shows segmented neutrophils and mean corpuscular volume (MCV)

- is 110fl. Which one of the following statements is TRUE?

- A. Gum hypertrophy occurs & Aminton
- B. Serum ferritin levels are low X
- C. Bone marrow Prussian blue stain is negative X
- Dr. Paraesthesias are common -
- E. Condition is invariable fatal

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- 41. All of the following diseases present as inflammatory monoarthiritis EXCEPT:
  - A. Osteoarthritis
  - B. Septic arthritis
  - C. Lyme arthritis
  - D. Psoriatic arthritis
  - E. Rheumatoid arthritis
  - 42. Which ONE of the following is a cause of a small pupil?
    - A. Belladona intoxication
    - B. Mid brain haemorrhage
    - C. Occipital infarcts
    - D. Pontine haemorrhage
    - E. Posterior communicating artery aneurysm
  - 43. A 45 year old alcoholic man is on standard treatment for pulmonary tuberculosis. Initially he responds well but in the 2<sup>nd</sup> week he develops progressive lethargy with blood pressure of 80/50mmHg. His most useful work up should include all of the following EXCEPT:
    - A. Serum electrolytes
    - B. Fasting blood sugar
    - C. Blood cultures
    - D. 24 hour urine for cortisol metabolites
    - E. Serum osmolarity
  - 44. A 25 year old man with liver cirrhosis was found to have grade 2 oesophageal varices at endoscopy. He has no past or current history of bleeding. Which one of the following interventions is BEST for prophylaxis against bleeding in this patient?
    - A. Octreotide infusion
    - B. Highly selective shunt procedure
    - C. Sclerotherapy
    - D. Propranolol
    - E. Transjugular intrahepatic portosystemic shunt (TIPS)
  - 45. A 58 year old diabetic man presents with right leg cellulitis with an ulcer. Which one of the following is TRUE regarding the most likely causative organism?
    - A. Enterococcus faecium
    - B. Bacteroides fragilis
    - C. Staphylococcus aureus
    - D. Likely to be polymicrobial
    - E. Streptococcus pyogenes
  - 46. A 45 year old alcoholic presents with 2 months history of exertional dyspnoea and pedal swelling. Physical examination reveals a blood pressure of 90/50mmHg and a difficult to trace displaced apex beat. All the following findings are expected in this condition
    - EXCEPT: A. Increased heart rate
    - B. Peripheral vasoconstriction
    - . Increased venous return ,
    - D. Decreased renal blood flow
      - E. Increased renal tubular sodium reabsorption



47. All of the following are commonly associated with acute tubular necrosis (ATM) EXCEPT: A. Hypotension B. Rhabdomyolysis C. Haemolysis D. Radioconstrast agents E. Plasmodium malariae infection 48. An 18 year old man from Gilgil presents with crusted lesion on the right cheek of 2 week duration. Which ONE of the following investigations should be performed as a priority to establish the diagnosis? A. Anti-double stranded DNA B. Complete blood count C. Skin biopsy for Giemsa stain D. Ziehl-Nielsen stain on skin biopsy E. Potassium hydroxide (KOH) preparation 49. A 40 year old man is initiated on Rifampicin/Isoniazid/Pyrazinamide/Ethambutol (RHZE) for pulmonary tuberculosis. 2 weeks later, he is found to have an alanine aminotransferase (ALT) of 62Iu/L (Normal upto 40Iu/L) and aspartate amino transferase AST/of 70 Iu/L (Normal upto 40Iu/L). Which one of the following is TRUE of his condition? A. Steroids are indicated B. His treatment should be switched to a second line. 2. His treatment should be continued with monitoring of liver enzymes D. Isoniazid is the most likely cause E. His treatment should be stopped immediately Wyone's 50. Which one of the following is TRUE regarding chronic myeloid leukemia (CML) A. It is almost exclusively a disease of children X B. Leucocyte alkaline phosphatase (LAP) score is reduced C. Lymphadenopathy is common in the stable state  $\lambda$ D. Autosplenectomy occurs X E. Spontaneous fractures tend to occur  $\chi$ 51. All of the following are clinical features of ankylosing EXCEPT: A. Low back pain B. Limited chest expansion C. Symmetrical polyarthritis D. Sacroiliitis V E. Limited movement of the lumbar spine 52. A 20 year old woman presents with severe unilateral throbbing headache accompanied by nausea, photophobia and phonophobia. All of the following are preventive strategies for this condition EXCEPT: A. Propranolol TV B. Verapamil C. Methysergide /y/2 D. Triptans E. Topiramate ./ Page 10 of 19

53. Which one of the following statements regarding non-ketotic hyperosmolar state is TRUE? A. Sodium bicarbonate infusion is indicated Heparin should not be used Serum osmolality is over 390 mosm/litre D. Mortality is negligible E. Ketone breath is characteristic 54. A 45 year old man present with bleeding gums during dental care. The International normalized ratio (INR) was 3.0. He is not on any anticoagulant. All of the following conditions can cause this clinical picture EXCEPT: A. Tuberculosis of the terminal ileum B. Autoimmune cholangiopathy C. Drug induced acute hepatitis D. Coeliac disease involving predominantly the jejunum E. Primary sclerosing cholangitis AZT 55. A 46 year old woman with HIV and on Tenofovir/Lamivudine/Efavirenz for 4 years is found to have a CD4 count of 18 cells/ml and a viral load of 181,000 copies/ml. She has been adherent to her treatment. Which one of the following is an APPROPRIATE second line regimen for her? A. Abacavir/Lamivudine/Atazanavir /r B. Zidovudine/Lamivudine/Atazanavir C. Zidovudine/Lamivudine/Nevirapine X D. Abacavir/Lamirudine/Lopinavir/Ritonavir E. Abacavir/Lamivudine/Nevirapine 56. All of the following are major criteria for diagnosis of rheumatic fever EXCEPT: A. Carditis c moren B. Chorea is yet therebut needed? C. Erythema marginatum 🗸 D. Fever E. Polyarthritis / 57. Which one of the following is the COMMONEST cause of acute kidney injury (AKI) in Kenya? A. Herbal ingestion B. Obstructive uropathy C. Radiocontrast associated injury D. Hypovolemia E. Aminoglycoside toxicity 58. A 24 year old man presents with a blistering disorder with erosions of 70% body surface area. Supportive care must include all the following EXCEPT: A. Barrier nursing B. Septic screen Neutral thermal environment D. Photoprotection E. Fluid and electrolyte replacement

59. A 65 year old man with 25 pack years of smoking presents with cough, weight loss and breathlessness. A chest radiograph shows a right apical homogeneous round capacity. All of the following findings are known to be associated with this presentation EXCEPT: A. Hyperpigmentation of the palms B. Radicular pain to the right hand C. Hypocalcemia D. Hoarseness of the voice haemoptysis E. Haemoptysis 60. Which one of the following statements is TRUE regarding Strongyloides stercoralis infection? A. Albendazole is the drug of choice for treatment B. Ivermectin is the drug of choice for treatment C. Diagnosis is by demonstration of characteristic eggs in stool D. Infection is acquired by ingestion of eggs - lavva E. Autoinfection does not occur x 18 infor 61. All of the following conditions have relevant family predisposition EXCEPT: A. Psoriatic arthritis B. Nodal osteoarthritis C. Osteoporosis D. Gout E. Gonococcal arthritis 62. A 24 year old woman presents with sudden onset headache. This is the most severe headache she has had in her life. Examination reveals a stiff neck and normal temperature. Which one of the following investigations to establish the diagnosis would be the MOST cost effective? A. CT scan brain B. MRI scan brain C. 4-vessel angiogram D. Transcranial Doppler ultrasound scan E. Lumbar puncture 63. All of the following conditions are associated with hirsuitism EXCEPT: A. Addison's disease B. Congenital adrenal hyperplasia C. Familial states D. Polycystic ovarian syndrome E. Ovarian neoplasms 64. A 45 year old man presents with increasing fatigue over the last few months. He has also noticed that his face has darkened and he has joint pains. He reports reduced libido and increased thirst. On examination his facial skin appears dark grey and he has a hepatemegaly. What is the MOST likely diagnosis? A. Wilson's disease X B. Haemochromatosis C. Alpha-l antitrypsin deficiency D. Autoimmune hepatitis E. Primary sclerosing cholangitis

65. An elderly male from Bungoma presents with joint pains and melena stools. He is anemic. All of the following statements are true regarding his condition EXCEPT: A. He is likely to have iron deficiency anemia B. The problem could be related to the treatment he is getting for joint pains C. Colonoscopy-is-indicated & D. The appearance of stools is unlikely to be due to haemorrhoids ~ E. The abdomen should be examined carefully for splenomegaly 66. A 28 year old woman presents with sudden onset dyspnoea and hemoptysis. She delivered 3 weeks prior. The MOST likely diagnosis is? A. Acute lobar pneumonia B. Acute pulmonary embolism C. Acute myocardial infarction D. Acute asthmatic attack E. Acute pulmonary oedema 67. Interventions that are associated with slowing progression of chronic kidney disease include all of the following EXCEPT: A. Effective blood pressure control B. Low potassium diet C. Reducing proteinuria D. Management of hyperphosphataemia E. Amelioration of acidosis 68. All of the following interventions are beneficial in the management of patients with chronic obstructive airway disease (COPD) EXCEPT: A. Pneumococcal vaccination B. Cessation of smoking C. Short acting bronchodilators ~ D. Unhaled anticholinergics High tension oxygen therapy 69. A 16 year old girl from Mombasa presents with fever, headache and abdominal pain. She had constipation initially but now has greenish loose stools. Her temperature is 39°C with a pulse rate of 86 beats/min. Which one of the following statements is TRUE regarding her condition? A. The most likely diagnosis is malaria B. Abdominal ultrasound will show diagnostic features C. The most likely diagnosis is typhoid fever D. Peripheral blood film will be diagnostic of the condition E. Colonoscopy is indicated \$70. A 43 year old woman presents with symmetrical shoulder and limb girdle weakness with an elevated creatinine kinase level. Which one of the following is the MOST likely diagnosis? A. Inclusion body myositis B. Giant cell myositis Dermatomyositis × D. Polymyalgia rheumatica

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Polymyositis

71. Taste sensation from the anterior two thirds of the tongue is predominantly carried by:  A. Trigeminal nerve  B. Glossopharyngeal nerve — poof V3  C. Recurrent laryngeal branch of the vagus nerve  D. Superior laryngeal branch of the vagus nerve  Chorda typani branch of the facial nerve  72. The following insulins/analogs are used in treatment of diabetic ketoacidosis EXCEPT:  A. Lispro insulin  B. Regular insulin  C. Insulin aspart  D. Lente insulin  Gillisine  73. All of the following conditions are associated with increased risk of cholelithiasis EXCEPT:  A. Chronic hepnolytic anaemia  B. Female, sex  High profein diet  D. Obesty   E. Pregnancy  74. The MOST appropriate initial treatment of severe malaria is:  A. Loading dose of quinine as a bolus  B. IV artesuprate  C. IV quinine and clindamycin  D. IV arteether  E. IV quinine and dexamethasone  75. A 28 year old woman delivered 4 weeks ago after an uneventful pregnancy. She has progressive dyspnoes on exertion and easy fatiguability. Examination is significant for progressive dyspnoes on exertion and easy fatiguability. Examination is significant for progressive dyspnoes on exertion and easy fatiguability. Examination is significant for progressive dyspnoes on exertion and easy fatiguability. Examination is significant for progressive dyspnoes on exertion and easy fatiguability. Examination is significant for progressive dyspnoes on exertion and easy fatiguability. Examination is significant for progressive dyspnoes on exertion and easy fatiguability. Examination is significant for progressive dyspnoes on exertion and easy fatiguability. Examination is significant for progressive dyspnoes on exertion and easy fatiguability. Examination is significant for progressive dyspnoes on exertion and easy fatiguability. Examination is significant for progressive dyspnoes of exertions and easy fatiguability. Examination is significant for progressive dyspnoes of exertions are defined to the following investigations is LEAST useful in her diagnostic work up?  A. Se		
A. Lispro insulin B. Regular insulin C. Insulin aspart D. Lente insulin C. Glulisine 73. All of the following conditions are associated with increased risk of cholelithiasis EXCEPT: A. Chronic hemolytic anaemia B. Female, sex High protein diet D. Obesty E. Pregnancy 74. The MOST appropriate initial treatment of severe malaria is: A. Loading dose of quinine as a bolus B? IV artesupate C. IV quinine and clindamycin D. IV arteether E. IV quinine and dexamethasone 75. A 28 year old woman delivered 4 weeks ago after an uneventful pregnancy. She has progressive dyspnoea on exertion and easy fatiguability. Examination is significant for predal oedema, regular tachycardia, raised JVP and a third hear sound at the apex. Which of the following investigations is LEAST useful in her diagnostic work up? A. Serum creatinine B. Liver enzymes C. Thyroid stimulating hormones (TSH) D. Lipid profile P. Plasma B- Natriuretic peptide  76. Steroid resistant nephrotic syndrome is COMMONLY due to: A. Minimal change glomerulonephritis B. Focal segmental glomeruloslerosis (FSGS) C. Lupus nephritis	A. Trigeminal nerve  B. Glossopharyngeal nerve — past 1/3.  C. Recurrent laryngeal branch of the vagus nerve  D. Superior laryngeal branch of the vagus nerve  Chorda typani branch of the facial nerve	
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77. A 58 year old man with chronic renal failure has a serum potassium of 6.4 mmol/L. An 5the following is ECG shows peaked T waves with widened QRS complexes. Which one of the following is B. Intravenous glucose and insulin C. Dialysis D. Sodium polystyrene sulfonate E. Beta blockers 78. A 35 year old woman has a breast lump that has developed over a period of 3 months to a size of 3x4 cm. It is not attached to the skin or underlying tissues. Which one of the following tests is LEAST appropriate in her evaluation? A. Core needle biopsy B. Mammogram C. Breast ultrasound scan D. Chest radiograph E. Complete blood counts 79. All of the following are expected clinical features in systemic sclerosis EXCEPT: A. Arthritis B. Pulmonary arterial hypertension C. Sicca syndrome D. Gastro-oesophageal reflux disease E. Acute kidney injury 80. A 38 year old female presents with a one month history of bilateral numbness of the lower limbs. Examination reveals reduced vibration sense and reduced ankle reflex. All of the following tests are useful in this patient EXCEPT: A. Serum sodium B. Serum creatinine C. Thyroid stimulating hormone D. Glycosylated haemoglobin E. Haemoglobin level 81. A 35 year old man on treatment for confirmed military tuberculosis is admitted due to worsening tiredness, lethargy and weight loss. He has dizziness on standing up. Examination reveals wasting, dehydration, hyperpigmentation involving the palms and buccal mucosa and postural hypotension. Which ONE of the following results is expected from his serum biochemistry? A. Hypernatremia B. Hyperkalemia, C. Hyperglycemia D. Hypocalcemia E. Hypochloremic acidosis

82. A 40 year old cigarette smoker complains of burning epigastic pain that is well localized and non-redistributed. There is no weight loss. He and non-radiating. The pain is partially relieved by eating. There is no weight loss. He has not used any non-steroidal anti-inflammatory agents. The pain has gradually worsened over several months. Which one of the following tests is MOST sensitive to make a specific diagnosis? A. Barium meal B. Endoscopy Serological test for H.pylori D. Serum gastrin E. Oesophageal pH monitoring 83. A usual resident of Kisumu presents with a massive splenomegaly and anaemia. All of the following should be considered in the differential diagnosis EXCEPT: Amyloidosis ~ B. Chronic myeloid leukemia C. Hyperimmune malarial splenomegaly syndrome D. Visceral leishmaniasis E. Portal hypertension 84. All of the following drugs are correctly matched with their side effects EXCEPT: A. Atenoloi - Bronchospasm Q. Clare B. Verapamil - Leg oedema C. Losartan - Hypokalaemia + 1 D. Enalapril - Angio-oedema E. Simvastatin - Rhabdomyolysis 85. All of the following statements are true regarding acid base and electrolyte abnormalities in acute kidney injury (AKI) EXCEPT: A. Correct acidosis if bicarbonate is less than 15mmol/L B. Hypocalcemia causes seizures C. Hyperkalemia can be shifted with albuterol D. 50% glucose is given in hyperkalemia to shift potassium intracellularly E. Lactic acidosis type A has a grave prognosis 86. A 40 year old female from Busia has been unwell for 11 months. Examination reveals pallor and an enlarged spleen extending 8 cm below the costal margin. The full blood count reveals: Haemoglobin 5g/dl MCV 85fl - 76 - 96 12 - 70 4 - 70 WBC 6.5 x 10 1/L with neutrophils 58% 4 - 10 x10 ● Platelets 40 x 10<sup>9</sup>/L Which one of the following tests is MOST appropriate to establish the diagnosis? A. Splenic biopsy Bone marrow biopsy C. Diagnostic/therapeutic splenectomy D. Liver biopsy E. Blood culture in Novy - MacNeal - Nicolle (NNN) medium

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81. A 35 year old man presenting with arthritis involving the left knee, right ankle and left metatarsal phalangeal joint. All of the following are likely diagnoses EXCEPT:

A. Reactive arthritis A Co

B. Gouty arthritis - wyst

C. Psoriatic arthritis

Ankylosing spondylitis

E. Rheumatoid arthritis - ow

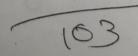
- 8. A 26 year old woman presents with a 2 week history of change in speech and tongue that deviates to the right on protrusion. Which cranial nerve is involved?
  - A. Right glossopharyngeal nerve
  - B. Left glossopharyngeal nerve
  - 2. Right hypoglossal nerve
  - D. Left hypoglossal nerve
  - E. Left vagal nerve
  - 89. A 32 year old woman has a 3 year history of amenorrhoea. She also reports acne; increased body hair and voice deepening. On examination, she has frontal balding and clitoral hypertrophy. Urinary free cortisol is normal. Testosterone levels are elevated. 6nmol/L (Normal=1-3nmol/L). Ultrasound of the pelvis is normal. What is the MOST likely diagnosis?

A. Thyroid carcinoma

B. Cushing's syndrome x @ comil

- D. Polycystic ovary syndrome x poyogen o 712 yer
- E. Granulosa theca cell tumour
- 90. A 30 year old known alcoholic presents with severe abdominal pain associated nausea and vomiting. The pain radiates to the back and serum lipase is found to the 400 Iu/L (Normal upto300Iu/L) All of the following findings would indicate severe disease EXCEPT:
  - A. Marked increase in blood urea nitrogen (BUN)
  - B. Cholelithiasis
  - C. Heart rate of 130 beats/minute
  - D. Impaired mental status
  - E. Respiratory rate of 34 beats/minute
- 91. A 55 year old man has history of retrosternal chest pain provoked by moderate physical activity. Which one of the following is NOT a risk factor for the condition?
  - A. A high waist hip ratio
  - B. Low HDL cholesterol.
  - C. Sedentary lifestyle
  - D. Exposure to second hand cigarette smoke
  - E. Intake of two glasses of wine twice a week





- 92. A 65 year old woman with type 2 diabetes mellitus for the past 12 years presents with a large septic right foot ulcer of 4 month duration. Her renal function reveals serum creatinine 196umol/L BUN-16mmol/L, BP is 156/192mmHg. The surgeon recommends an amputation. What is the MOST appropriate glucose lowering agent for this patient?
  - A. Gliclazide
  - B. Glimepiride
  - Regular insulin
  - D. Gliptin
  - E. Metformin
- 93. A 25 year old man known to be HIV positive is also found to be HBsAg positive on routine screening. He has a CD4 count of 100 cells/ml and a HIV viral load of 560,000 copies/ml. Which one of the following HAART regimen would be the MOST suitable for him?
  - A. Zidovudine/Lamivudine/Efavirenz
  - B. Zidovudine/Didanosine/Nevirapine

Tenofovir/ Lamivudine/ Efavirenz

- D. Abacavir/Entricitabine/ Nevirapine
- E. Abacavir/ Lamivudine/ Efavirenz
- TOF/3TC/EFV
- 194. A 40 year old woman who is HIV positive but HAART naïve presents with 3 week history of cough, shortness of breath and fever. On exam she is found to be in respiratory distress, chest had normal vesicular breath sounds. A chest radiograph shows perihilar infiltrates and a blood gas analysis (BGA) is significant for an 02 saturation of 70%. Which one of the following is the MOST appropriate initial therapy?
  - A. Intravenous ceftriaxone
  - B. Intravenous meropenem
  - High-dose cotrimoxazole
  - D. Ceftriaxone and clarithromycin
  - E. Anti-tuberculous therapy
- 95. A 25 year old man has been on zidovudine, lamivudine and boosted lopinavir for the past 5 years. The commonest side effect of his treatment that raises his cardiovascular risk is:
  - (a) Dyslipidemia,
  - B. Impaired glucose tolerance
  - C. Chronic kidney disease
  - D. Anemia, ..
  - E. Chronic liver injury
- 96. A 46 year old woman is found to have fatigue of undue proportions. She has menorrhagia against her expectations. 5 years earlier, she was treated with radioactive iodine for Graves' disease. Which ONE of the following is the test of choice to establish the diagnosis?
  - A. Serum thyroid-stimulating hormone (TSH).
  - B. Serum tri iodothyronine (T<sub>3</sub>)
  - C. Thyrotrophin-releasing hormone (TRH) stimulating test
  - D. Thyroid ultrasound scan

Radio-active iodine uptake scan



Mat rajertel

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97. A 16 year old boy with sickle cell anaemia has been admitted for blood transfusion. This is the 6th episode requiring blood transfusion in the last 14 months. Which one of the following medicines will be USEFUL as an adjuvant during the blood transfusion?

A. Sodium stibogluconate

Desferrioxamine

C. Pentamidine

- D. Aluminium hydroxide
- E. Allopurinol
- 98. A 34 year old woman is on follow up for rheumatic valvular heart disease and has been stable awaiting valve replacement. She now presents with worsening heart failure and general malaise for 2 weeks. Examination reveals mild pallor and finger clubbing. Which one of the following statements is TRUE?

A. The anti-streptolysin 'O' titre is characteristically high in this condition

- B. Definitive treatment should be withheld until blood for culture is withdrawn
- C. Empiric treatment regimen should include vancomycin
- D. Monthly long acting penicillin is useful in prophylaxis
- Echocardiography is diagnostic

99. A 20 year old man presents with a history of headache, confusion, fever, nausea and vomiting. His white cell count is 20,000 x 109/L with predominant neutrophils. The MOST important investigation in this patient to establish the diagnosis is?

A. Blood culture

B. CT scan of the brain

@ Cerebrospinal fluid analysis

- D. Urine microscopy, culture and sensitivity
- E. Thick and thin blood slide for malaria

A. Colorectal carcinoma α-fetoprotein

B. Choriocarcinoma Carcinoembryonic antigen (CEA)

C. Medullary thyroid carcinoma - CA125. - - CA125.

Pancreative carcinoma - Ca19-19 Vor Am

E. Ovarian carcinoma - Human chorionic gonadotropin CA-25

