

UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF MEDICINE
FINAL EXAMINATION FOR MEDICAL DEGREES – JULY 2021
MEDICINE PAPER II



Date: 26.07.2021

Time: 3 HOURS

Answer All TEN (10) Questions.

Medicine – Final MBBS – July 2021

Index Number:

01. A 30-year-female presents to accident and emergency department with shortness of breath of one day duration. She also has reduced urine output for last 3 days and no urine output for last 12 hours. Examination revealed bilateral pedal oedema, pulse 90bpm, BP 165/100mmHg, elevated JVP, bi- basal fine crepitations and tender hepatomegaly without palpable urinary bladder. Initial investigations show

UFR – Albumin +, RBC- field full with few RBC cast. Blood urea - 70mg/dl(normal 6 -20mg/dl)

1.1 What is the most likely diagnosis? (10 marks)

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1.2 List 4 causes for above diagnosis? (10 marks)

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1.3 List the investigations that need to be performed on this patient? (30 marks)

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03. A 60-year-old male who has undergone coronary artery bypass graft 5 years back following an acute anterior myocardial infarction presents with exertional dyspnoea of NYHA II of one week duration. He is a diabetic for 20 years. His current medications are Aspirin 150 mg daily, Clopidogrel 75 mg daily, Metformin 500 mg tds, Gliclazide 80 mg bd and Atorvastatin 20 mg noct.

On general examination he has bilateral pitting ankle oedema and pallor. His PR is 110/min irregularly irregular. BP is 140/70 mm Hg, has bilateral basal inspiratory fine crepitations. Initial investigations showed SpO₂ 92% on air, RBS 321mg/dl, FBC – Hb 9.5g/dl, MCV 70fl, WBC 4800/mm³, N 70 L28, Platelet 155000/mm³.

UFR reveals protein ++ and a 12 lead ECG shows atrial fibrillation.

3.1 What is the most probable clinical diagnosis for his exertional dyspnoea? (10 marks)

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3.2 Name two conditions that could have precipitated the above presentation. (10 marks)

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3.3 Name two ECG abnormalities you would look for to confirm the diagnosis of atrial fibrillation. (20 marks)

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3.4 Name two possible causes for his pallor. (10 marks)

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3.5 Name two possible causes for the ankle oedema. (10 marks)

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3.6 What investigation you would request to confirm the diagnosis you mentioned in 3.1

(10 marks)

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3.7 Name a medication you would administer to relieve his presenting symptoms (10 marks)

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3.8

3.8.1 Name 02 medications that could be added to improve the prognosis of the condition you mentioned in 3.1

(10 marks)

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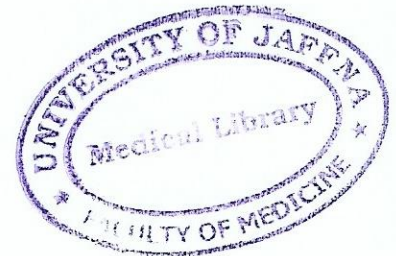
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3.8.2 Name two blood investigations you would perform before initiating the treatment.

(10 marks)

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4.4 Name an important initial imaging investigation you would request on this patient (10 marks)

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4.5 Name 2 specific investigations you would request to arrive at a definite diagnosis? (10 marks)

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4.6 Name 2 cardiac conditions that could present with PUO? (10 marks)

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4.7 Name 2 non haematological malignancies presents with PUO? (10 marks)

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05. A 35-year-old male presents with bilateral symmetrical distal interphalangeal joint pain and swelling and low backache of 3 months duration. He had seen a dermatologist for a rash involving both knees and lower legs six months back and is on topical ointments.

5.1 What is the likely clinical diagnosis? (10 marks)

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5.2 Mention three other characteristic patterns of joint involvement that can be seen in the diagnosis mentioned in 5.1? (10 marks)

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5.3 Mention 4 other sites of skin rashes you will look carefully in this patient? (10 marks)

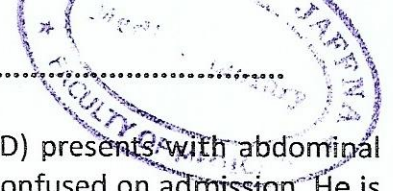
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5.4 List the other clinical manifestations of the disease you mentioned in 5.1 (10 marks)

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5.5 What investigations will help in establishing the diagnosis? Write the expected findings (10 marks)

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06. A 50-year-old male with diagnosed Chronic Liver Cell Disease (CLCD) presents with abdominal pain and distension of one week duration. He is febrile, icteric and confused on admission. He is a heavy alcohol consumer and had several similar admissions in the past. On examination he is very dark in complexion , GCS 13/15,PR 112bpm,BP 110/70mmhg,diffuse abdominal tenderness with fluid thrill elicited.

His initial investigations are WBC 10500/mm³,N-85%,L-12%, Hb 10.3g/dl, MCV 102fl,PLT-85000/mm³, RBS 210mg/dl

6.1 Give two acute medical problems you have identified in this patient? (10 marks)

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6.2 Write two likely underlying aetiology of CLCD you will consider in this patient (10 marks)

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6.3 Name other relevant physical signs you will elicit in this patient in view of the problems identified in 6.1

(15 marks)

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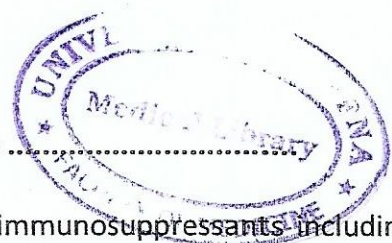
6.4 List the investigations you will request in this patient to help in the management of the acute problems mentioned in 6.1 and Give reasons (15 marks)

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7.6 What advices you would give her on discharge?

(20 marks)





08. A 32-year-old female diagnosed with rheumatoid arthritis on immunosuppressants including a steroid presents to emergency department with a history of reduced response since morning. Her mother also says she had complained of abdominal pain and was vomiting the previous night. She has not been taking any medications for last few days due to unavailability of medicines as a result of lockdown of her area.

On examination she has an altered level of consciousness but was arousable. Her blood-pressure is 80/50 mmHg; pulse rate is 120 beats per minute; and random capillary blood glucose is 60mg/dl. The remaining examination is unremarkable. There is no focus of infection, and she is afebrile.

8.1 What is the most likely diagnosis? (10 marks)

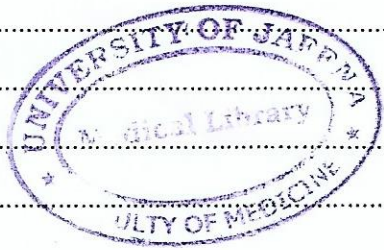
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8.2 List four most relevant blood investigations to be done immediately and give the expected findings. (20 marks)

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8.3 How would you manage this patient based on the diagnosis mentioned in 8.1? (50 marks)

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8.4 What are the advices you would give this patient on discharge?

(20 marks)

A series of horizontal dotted lines provided for writing the answer to question 8.4.

10. A 60-year-old woman presents with excessive tiredness on mild exertion for last 3 months. She has no significant past medical history except taking thyroxine 100 micrograms mane daily for hypothyroidism due to Hashimotos’ thyroiditis. On physical examination, she is pale, and having depigmented macules over limbs and trunk. Her vitals are normal. Investigations show

Hb 8.1 g/dL
MCV 116fL (80-96)
WBC 8000/mm³
Platelets – 170,000/mm³
TSH – 2.0 mU/L (0.2-4.5)
Bilirubin – 1.00 mg/dL (0.3-1.5)



10.1 What nutritional deficiency that could cause her anemia? (10 marks)

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10.2 List three other important physical signs you will expect in this nutritional deficiency (15 marks)

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10.3 List the findings you would expect in the blood picture (10 marks)

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10.4 What blood investigation you will perform to confirm the diagnosis mentioned in "10.1" (10marks)

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10.5 What is the etiological diagnosis for her deficiency mentioned in "10.1" (10 Marks)

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