

To Library

UNIVERSITY OF JAFFNA, SRI LANKA
FINAL EXAMINATION FOR MEDICAL DEGREES – NOVEMBER 2020
SURGERY – PAPER II

Date: 19.11.2020
1.30 p.m. – 4.30 p.m.



Time: 03 hours

Answer all TEN questions

Please answer the questions in the given space.

1. A 67-year-old obese male underwent laparoscopic anterior resection for rectal cancer and surgery lasted for 4 hours. He has Diabetes Mellitus, hyperlipidaemia, and hypertension. He is also a heavy smoker. On post-operative day 5 he developed fever.

1.1. List 5 possible causes for fever in this patient. (15 marks)

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He also complains pain and swelling of right leg and clinical diagnosis of deep venous thrombosis was (DVT) made.

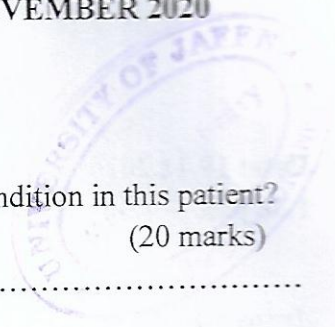
1.2. How will you confirm your diagnosis? (10 marks)

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1.3. List the contributing factors for DVT in this patient. (25 marks)

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1.4. What are the peri-operative measures you take to prevent this condition in this patient? (20 marks)

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1.5. List 2 acute complications of this condition (DVT). (10 marks)

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1.6. How will you manage DVT in this patient (20 marks)

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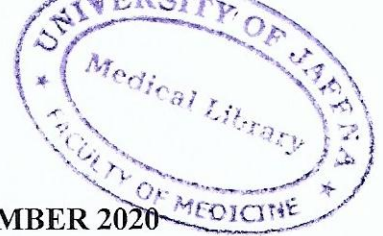
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2. A 34-year-old manual worker presented with sudden onset, severe right side abdominal pain associated with nausea and vomiting.

2.1. List 3 differential diagnosis for his clinical presentation. (10 marks)

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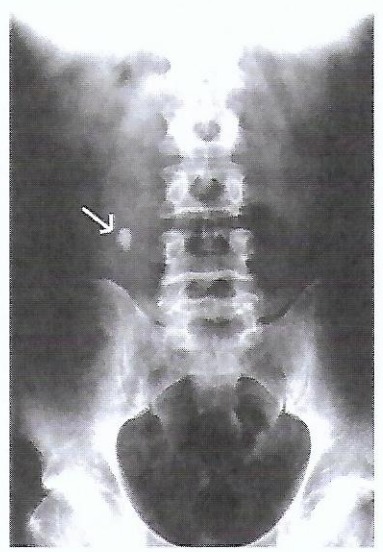
2.2. How will you investigate this patient? (20 marks)

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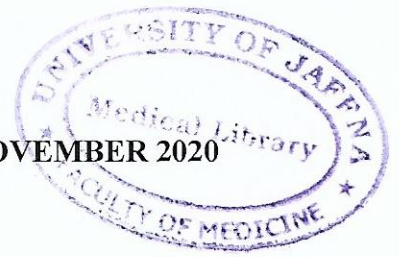
His X-ray KUB is given here.

2.3. Describe the finding in this X-ray KUB and what is the most likely diagnosis? (15 marks)

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3. A 65-year-old man presented to the emergency department with three weeks history of yellow discoloration of sclera. He denied abdominal pain during this period. He noticed that he passes pale colour stool with increase bowel opening and dark urine for one-week duration.

3.1. What is the most likely clinical diagnosis? (10 marks)

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3.2. List four findings in the clinical examination, which will support your diagnosis. (15 marks)

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3.3. List five investigations to confirm your diagnosis with expected findings. (20 marks)

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3.4. After the investigation, he has undergone ERCP for therapeutic purposes. How will you prepare him for this procedure? (15 marks)

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4. A 45-year-old woman was found to have less than a centimeter size lesion in the upper outer quadrant of her right breast. It was suspected to have carcinoma of breast in this lady.

4.1. How do you confirm your diagnosis? (30 marks)

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4.2. List 4 investigations which used to stage the disease. (15 marks)

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4.3. List 5 factors that determine the treatment option in this woman. (10 marks)

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4.4. Her biopsy report reveals invasive ductal carcinoma, and she has no axillary lymph node enlargement. Briefly outline the management of this woman. (35 marks)

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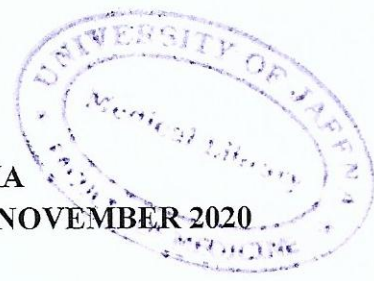
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4.5. Her receptor statuses were positive for ER and PR. What is additional treatment will be useful during the follow-up period and how long she needs that treatment? (10 marks)

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5. A 62 year old previously healthy male presents with loss of appetite and loss of weight of three months duration. He also had dyspepsia for the last four months. On examination he was cachectic, pale but not icteric and had lymph node enlargement in the left Supraclavicular fossa. He also had hyper pigmented skin lesions in neck and thickened skin over the palmer surface of hands. He did not have palpable intra-abdominal lumps.

5.1. Give three likely causes for dyspepsia. (15 marks)

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5.2. What is the most likely diagnosis in this patient? (05 marks)

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5.3. Give two reasons for your answer mention above in 3.2. (20 marks)

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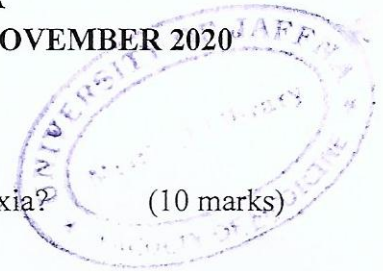
5.4. How will you confirm the diagnosis? (10 marks)

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5.5. Give three predisposing factors for the likely diagnosis mentioned in 3.2. (15 marks)

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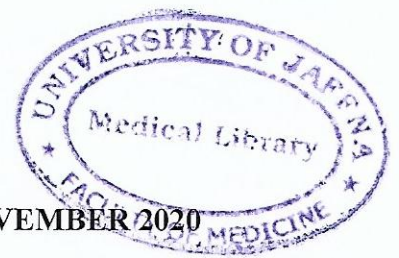


5.6. What is the likely reason for developing skin lesions and cachexia? (10 marks)

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5.7. Briefly outline the management plan of this patient. (25 marks)

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6. A 62-year- old farmer presented with a non-healing ulcer over the planter surface of the left foot of three months duration. He is a patient with diabetes mellitus and hypertension. He was on metformin and losartan. He smokes cigarette occasionally. The ulcer was situated over the first metatarsal head and had slough on it. It was not painful.

6.1. List three common causes for non-healing ulcer in lower limb. (15 marks)

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6.2. What is the most likely cause for ulcer in this patient (05 marks)

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6.3. Mention three possible aetiological factors of ulcer in this patient (15 marks)

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6.4. Give an important physical sign that needs to be elicited in this patient (10 marks)

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6.5. Write three investigations to assess the extent of ulcer in left foot (15 marks)

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6.6. List five principles to treat the ulcer and to prevent its recurrence in this patient.

(40 marks)

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7. A 30-year-old woman was brought to the Accident and Emergency department of Hospital, in a car after having been knocked down by a motor cycle on the edge of the road. She is conscious and says that she has a painful neck as well as pain in the region of her left hip. On questioning she says she was able to stand with difficulty but had severe pain in the left hip region and therefore could not walk. She could not remember the accident itself.

7.1. How will you evaluate and manage this patient?

(50 marks)

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7.2. List two possible injuries this patient could have and describe the clinical features for one of them. (25 marks)

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7.3. What are the relevant X-rays that you would request in this patient giving your reasons for them? (15 marks)

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7.4. Are there any special precautions you would take before carrying out the above mentioned imaging in this patient? (10 marks)

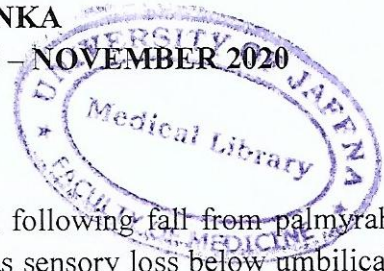
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8. A 30-year-old married toddy tapper was brought to hospital following fall from palmyrah tree of 20 feet height. He was unable to move his legs and has sensory loss below umbilical level. His primary survey was normal.

His X-ray revealed burst fracture of 10th Thoracic vertebra.

8.1. What is the probable diagnosis? (10 marks)

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8.2. Describe the initial management of this patient. (40 marks)

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8.3. List the possible 5 long term complications and mention the care to be given to attend those complications. (50 marks)

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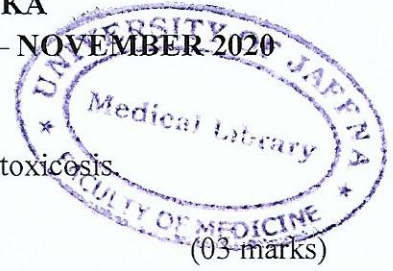
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9. A 40-year-old woman underwent total thyroidectomy for Thyrotoxicosis.

9.1. List 3 common causes for the thyrotoxicosis.

(03 marks)

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9.2. Outline the steps in preparing for total thyroidectomy in a patient with thyrotoxicosis.

(07 marks)

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9.3. Mention three complications specifically related to the Thyroidectomy, which occurs in each mentioned time period below; (30 marks)

(A) Within 24 hours of surgery.

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(B) Between post-operative 2nd day to 5th day.

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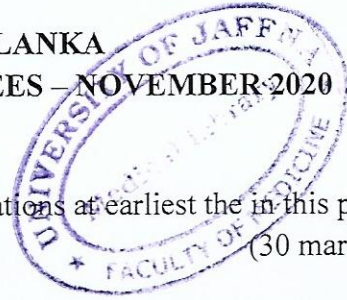
(C) More than a month later.

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9.4. How would you identify the above mentioned complications at earliest the in this patient? (30 marks)

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(B)

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(C)

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9.5. Enumerate the management of each complication mentioned above in (A) and (B). (30 marks)

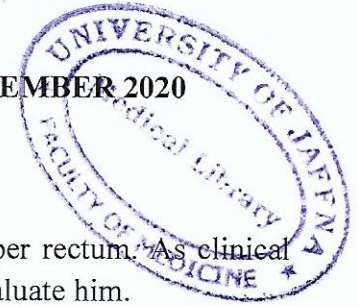
(A)

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(B)

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10. A 71-year-old retired teacher presented with a history of bleeding per rectum. As clinical features were suggestive of rectal cancer, it was decided to further evaluate him.

10.1. Mention two local causes for bleeding per rectum other than rectal cancer.

(10 marks)

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10.2. List five features in the history which suggestive that the rectal cancer is the cause for his presentation.

(15 marks)

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10.3. What investigation would you do to confirm the diagnosis of rectal cancer?

(10 marks)

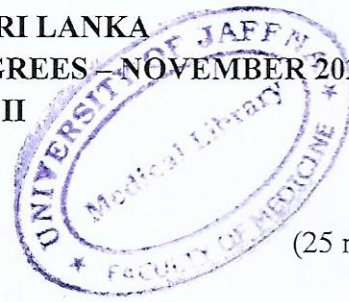
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10.4. How would you prepare him for the investigation you mentioned in 10.3.?

(15 marks)

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10.5. Briefly describe the staging of rectal cancer. (25 marks)

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10.6. What investigation would you do to stage the local spread of the rectal cancer? (05 marks)

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After evaluation it was decided to do abdomino-perianal resection (APR) in this patient.

10.7. Mention the important aspect in the consent for the proposed surgery. (05 marks)

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10.8. Mention three complications of stoma. (15 marks)

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