

UNIVERSITY OF JAFFNA, SRI LANKA
FINAL EXAMINATION FOR MEDICAL DEGREES – JUNE 2010
SURGERY Paper II

DATE: 24.06.2010

TIME ALLOWED : 3 ½ HOURS

ANSWER ALL TEN [10] QUESTIONS

ANSWER EACH PART IN SEPARATE ANSWER BOOK

Part A

1. 1.1. A 73 year old patient was admitted with bladder out flow obstruction symptoms of six months duration. The ultrasound examination of KUB revealed bilateral hydronephrosis and hydroureter, residual urine volume of 220ml and enlarged prostate. His blood urea was 180mg/dl.
 - 1.1.1. Mention five relevant investigations with reasons those are useful in the management of this patient. (15 Marks)
 - 1.1.2. Enumerate the management of this patient. (35 Marks)
 - 1.1.3. Mention five post-operative complication of prostatectomy. (10 Marks)
- 1.2. Write short notes on the place of hormonal treatment in prostatic cancer emphasizing the:
 - 1.2.1. Criteria to offer hormonal treatment (20 Marks)
 - 1.2.2. Options available in hormonal treatment (20 Marks)

Part B

2. 45 year old female presented with yellowish discoloration of the sclera for six weeks duration. The abdominal examination revealed palpable intra abdominal lump in the right hypochondrial region.
 - 2.1. Mention three factors in the history that will help to support the diagnosis of obstructive jaundice . (10 Marks)
 - 2.2. Mention five possible differential diagnoses in this patient (10 Marks)
 - 2.3. Mention three investigations with interpretation of the results to confirm the diagnosis of obstructive jaundice (15 Marks)

- 2.4. Briefly describe the investigations to find out the cause for the obstructive jaundice (20 Marks)
 - 2.5. Enumerate the special considerations in the preoperative preparation with regards to obstructive jaundice (30 Marks)
 - 2.6. Mention five post operative problems faced in a patient with obstructive jaundice (15 Marks)
3. Brief out the principles of management of thyroid lump under each of the following situation:
 - 3.1. Ultrasound revealed solitary nodule in the right lobe of the thyroid. FNAC revealed follicular neoplasm and thyroid function status shows euthyroid (30 Marks)
 - 3.2. Ultrasound revealed single cystic lesion in the left lobe. FNAC non diagnostic (no cells). Thyroid function- euthyroid (20 Marks)
 - 3.3. Ultrasound revealed solitary nodule in the right lobe. FNAC – benign cells. Thyroid function- Hyperthyroid state (25 Marks)
 - 3.4. Ultrasound revealed multinodular goiter. FNAC- Hashimoto thyroiditis. Thyroid function- euthyroid (25 Marks)

Part C

4. A 30 year old male patient was admitted with injury to left lower chest after RTA. He was found to be dyspnoeic, pale and hypotensive
 - 4.1. What are the two common internal organs possibly injured in this patient? (10 Marks)
 - 4.2. List the investigations with interpretations to confirm the injuries mentioned in 4.1.? (25 Marks)
 - 4.3. Enumerate the pre operative management of this patient (30 Marks)
 - 4.4. Mention five relevant complications that may arise in the post operative period (15 Marks)
 - 4.5. What measures you will undertake to avoid the complications mentioned in 4.4? (20 Marks)



5. Briefly discuss the causative organism, principles of management and complications of the following surgical conditions
- 5.1. Paronychia (25 Marks)
 - 5.2. Carbuncle (25 Marks)
 - 5.3. Perianal abscess (25 Marks)
 - 5.4. Fournier's gangrene (25 Marks)

Part D

6. 6.1. Brief out the usefulness of CT scan in a head injury patient (25 Marks)
- 6.2. Write short notes on drainage systems used in surgical practice (25 Marks)
- 6.3. Write notes on antibiotic policy in routine surgery (25 Marks)
- 6.4. Mention five parameters(excluding parameters used in wards) and usefulness of these parameters in the management of critically ill patient in SICU (25 Marks)

Part E

7. Write notes on:
- 7.1. Blowout fractures of the orbit (30 Marks)
 - 7.2. Management of severe haemorrhage (30 Marks)
 - 7.3. Write notes on the preparation of patients for the following radiological investigations:
 - 7.3.1. IVP for a female (10 Marks)
 - 7.3.2. Barium enema (10 Marks)
 - 7.3.3. Contrast CT scan of the abdomen (10 Marks)
 - 7.3.4. Micturating cysto-urethrogram (MCUG) for a child (10 Marks)

Part F

8. 8.1. Discuss the differential diagnosis and management of limping in a 7 year old child (50 Marks)
- 8.2. Describe the management of open fracture of the tibia of 28 year old boy who sustained RTA and admitted to the emergency ward (50 Marks)

Part G

9. A 55 year old male patient presented with bleeding per rectum of 3 months' duration. Examination of this patient with a rigid sigmoidoscopy revealed a growth in upper rectum. A biopsy from this lesion confirmed a moderately differentiated adeno carcinoma.
- 9.1. List 3 other possible symptoms, this patient could have presented with (30 Marks)
 - 9.2. Mention 2 important investigations needed before finalizing the treatment plan for this patient. Give reasons for these investigations (20 Marks)
 - 9.3. What is the most likely surgical treatment this patient would undergo? (10 Marks)
 - 9.4. How will you prepare the patient for the above surgical treatment (20 Marks)
 - 9.5. Briefly describe the staging system used in this disease condition (20 Marks)
10. 45 year old obese woman underwent laparoscopic cholecystectomy which was converted to open surgery to control bleeding from liver bed. She developed fever on the first post operative day. Fever came down on the second post operative day and again spiked on the fifth postoperative day and she complained of calf pain. She is diabetic and has Ischaemic Heart Disease. She has been treated with insulin and lipid lowering drug. She had used oral contraceptive pill.
- 10.1. List 5 possible causes for this patient to develop fever in the post operative period (20 Marks)
 - 10.2. How will you investigate this patient, when she developed fever in the post operative period (20 Marks)
 - 10.3. What is the most likely complication she has developed in the post operative period (10 Marks)
 - 10.4. How will you confirm the above complication (20 Marks)
 - 10.5. Briefly outline the treatment plan for this patient (30 Marks)