

FIRST EXAMINATION FOR MEDICAL DEGREES (2nd) — JUNE 2021
ANATOMY — PAPER II

Time: Three hours

TEN questions
EACH QUESTION in a separate answer book

(30 Marks)

1.2 Briefly describe the structural features of small intestine to perform its functions effectively

(30 Marks)

1.3 Write briefly the development of pancreas

(30 Marks)

1.4 List two abnormalities during the development

(10 Marks)

2.1 Describe the arterial supply of cerebral hemisphere with diagrams

(40 Marks)

2.2 Outline the optic pathway

(30 Marks)

2.3 Describe the cranial duramatter

(30 Marks)

3. A man was presented to the surgical casualty ward with a cut injury over the medial aspect of the wrist with profuse bleeding following a trauma. The vessel was ligated. His hand appeared deformed and also he had sensory loss over the antero medial aspect of the palm and finger.



4. A 30 year male had a blunt trauma in the left upper abdomen during a car accident. Investigations revealed severe haemorrhage due to ruptured spleen. It was decided to perform splenectomy.



strate the term "splenectomy"
ite notes on splenic artery

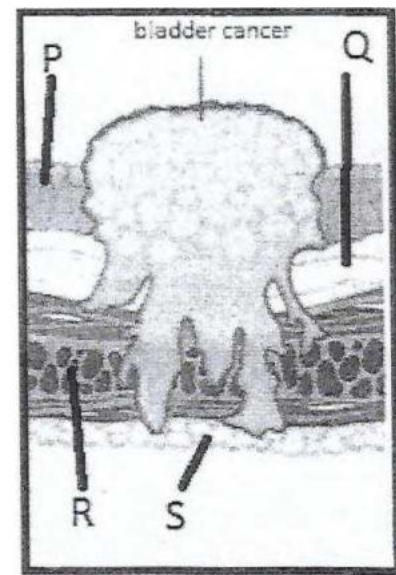
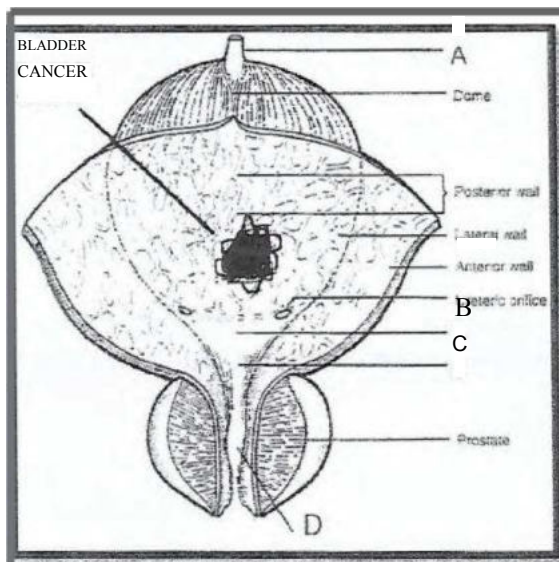
6. A 63 year male underwent for superficial parotidectomy for a neoplastic lesion and facial asymmetry was noted after the surgery. It was diagnosed as facial nerve palsy.

8. A patient presented with tumour metastasis from colon to the functional right lobe of liver. CT scan demonstrated that the metastatic lesions were situated in the segments V and VIII of liver
- 8.1 Mention the landmarks used to separate functional lobes of liver
 - 8.2 Name the segments found in functional right lobe
 - 8.3 Describe the basis of description of segmental anatomy of liver
 - 8.4 Enumerate the structures lying anterior to segments V and VIII
 - 8.5 Outline the venous drainage of segments of liver to inferior vena cava
 - 8.6 Explain on anatomical basis (venous drainage) the tumour spread from colon to liver

9. A 30 year motor cyclist admitted to accident unit with a history of road traffic accident. He developed severe swelling in the leg and felt unbearable severe pain in the leg. He also complained of numbness and paresthesia over the right foot mainly in the first inter digital space. The radiological investigation revealed right mid shaft tibia fracture. The clinical diagnosis of the patient made as compartment syndrome.

0Marks)

10. A 60 year male presented with blood in urine and cystoscopy (camera test to see interior of urinary bladder) examination revealed a urinary bladder cancer at posterior bladder wall (Image 1). Tumour was removed and histology demonstrated tumour entering in to the perivesical fat (Image 2).



What type of epithelium covers the urinary bladder mucosa

in this patient (male)