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First Professional MBBS Degree Supplementary Examinations

February 2017

ANATOMY- PAPER II

Time: 3 Hours **Total Marks: 50**

- Answer all questions
- Draw diagrams wherever necessary

Long essay **(10)**

1. A 62 years old man with progressive weight loss complains of pain and bleeding near the anal orifice. His condition is diagnosed as carcinoma of the anal canal. At this stage of the disease, the neoplasm is located entirely below the pectinate line. Based on your anatomical knowledge, answer the following questions:

- To which group of lymph nodes, cancer from this part of anal canal is likely to spread.
- Name the nerve carrying pain sensation from this part of the anal canal.
- Describe briefly describe the interior of the anal canal with the help of a diagram
- How the development, arterial supply, venous and lymphatic drainage and the nature of the epithelial lining of the anal canal differ from each other above and below pectinate line.
- What is the clinical significance of knowing the venous drainage of the anal canal.

(1+1+2+5+1=10)

Short essay **(3x5=15)**

2. Cavernous sinus – structures related, tributaries and applied anatomy
3. Second part of duodenum
4. Association fibers of brain

Short notes **(5x3=15)**

5. Middle meatus of nasal cavity
6. Soft palate
7. Microscopic structure of thyroid and parathyroid glands
8. Name the extra ocular muscles with its nerve supply
9. Blood supply of supra renal gland

Short answers **(3x2=6)**

10. List the derivatives of meso-nephric duct in males
11. Ansa cervicalis
12. Styloid process of skull

Draw diagrams **(2x2=4)**

13. Floor of fourth ventricle
14. Draw a neat labeled diagram of transverse section of abdomen at L_1 level

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