

**Q.P. Code: 112001****Reg. no.: .....****First Professional MBBS Degree Regular Examinations March 2021****Human Anatomy - Paper II****Time: 3 Hours****Total Marks: 100**

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers
- Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

**Long Essays****(2x15=30)**

1. A 60-year-old male known hypertensive is on antihypertensive drug for 5 years, wakes up in the morning and notices difficulty in moving his right limbs. He was brought to emergency department. Neurological examination revealed right sided hemiplegia. CT scan revealed hemorrhage in the posterior limb of the left internal capsule.
  - Name the blood vessel responsible for the haemorrhage.
  - Discuss the white matter of cerebrum.
  - Parts and fibres of internal capsule.
  - Blood supply of internal capsule.**(2+5+5+3)**
2. A 43-year-old fair lady reported to surgery outpatient department with a history of intense pain in the upper-right side of the abdomen, often accompanied by nausea and vomiting, that steadily increases for approximately 30 minutes to several hours. She also had pain between the shoulder blades or below the right shoulder. She could correlate the attacks often occurred after a particularly fatty meal and almost always happen at night. Other symptoms included abdominal bloating, intolerance of fatty foods, belching, gas, and indigestion. On examination, Murphy's sign was positive liver function tests were mildly abnormal. Ultrasound revealed presence of stones in gall bladder.
  - What is Murphy's sign.
  - Gross anatomy of extrahepatic biliary apparatus with neat labelled diagram.
  - Arterial supply of extrahepatic biliary apparatus.
  - Histology of gall bladder with neat labelled diagram.
  - Relations of the inferior surface of liver**(1+5+2+4+3)**

**Short essays****(5x8=40)**

3. Layers of scalp with clinical implications.
4. Facial nerve.
5. Uterus: microscopic anatomy and changes in different phases of uterine cycle.
6. Boundaries and contents of carotid triangle.
7. Extraocular muscles.

**(PTO)**



**Short answers**

**(4x4=16)**

8. Nerve supply of submandibular salivary gland.
9. Vas deferens.
10. Tympanic membrane.
11. Microscopic structure of cerebrum

**Draw a neat labeled diagram**

**(4)**

12. Distribution of cutaneous nerves to head and neck.

**Name the following**

**(10x1=10)**

13. Dural folds.
14. Hindgut derivatives.
15. Derivatives of diencephalon.
16. Derivatives of second pharyngeal pouch.
17. Structures producing facial colliculus.
18. Point located at the junction between upper 2/3<sup>rd</sup> and lower 1/3<sup>rd</sup> of spinoumbilical line.
19. Basal nuclei.
20. Openings in the hiatus semilunaris.
21. Developmental sources of diaphragm.
22. Vertebral level of vena caval opening of diaphragm.

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