

# Tutorial

## 2015/2016 Batch

1. The procedure followed by a doctor to insert a central venous line into the internal jugular vein of a patient in the intensive care unit is given below.
  - Carotid artery was palpated.
  - The needle was inserted at the angle between two heads of distal attachment of the sternocleidomastoid muscle.
  - The needle was inserted at 45-60 degrees to the skin directed towards the nipple on the same side.
  - 1.1 State the extent of the internal jugular vein (10 Marks)
  - 1.2 Describe the importance of palpating the carotid artery in this procedure (20 marks)
  - 1.3 Draw a labelled line diagram of the anterior aspect of the neck to illustrate the relationship of internal jugular vein, carotid artery, trachea, sternocleidomastoid and clavicle to each other (40 Marks)
  
2.
  - 2.1. Draw a labeled line diagram to illustrate the structures on the medial surface of the brain in a mid sagittal section. (50 marks)
  - 2.2. List the areas of drainage of lymph to the submental lymph nodes. (20 marks)
  - 2.3. Name the lymph nodes in the head and neck region that can be palpated when enlarged.(30 marks)
  
3.
  - 3.1. List the primary and secondary embryonic brain vesicles and their corresponding structures of the adult brain. (30 Marks)
  - 3.2. A patient with a stroke (cerebro vascular accident) showed an ischaemic lesion in the genu and the posterior limb of the left internal capsule in the CT scan of his brain.
    - 3.2.1. List the possible clinical features due to this lesion (30 marks)
    - 3.2.2. State the anatomical basis for the clinical features mentioned in 1.2.1 (40 Marks)
  
4.
  - 4.1. Using a labeled line diagram/s illustrate the arrangement of lymph nodes in the head and neck region (70 marks)
  - 4.2. Describe the lymph drainage of the tongue (30 marks)

**Please bring your written answer for the discussion**

***Venue: Physiology Lecture Theatre at 1.15pm onwards***

