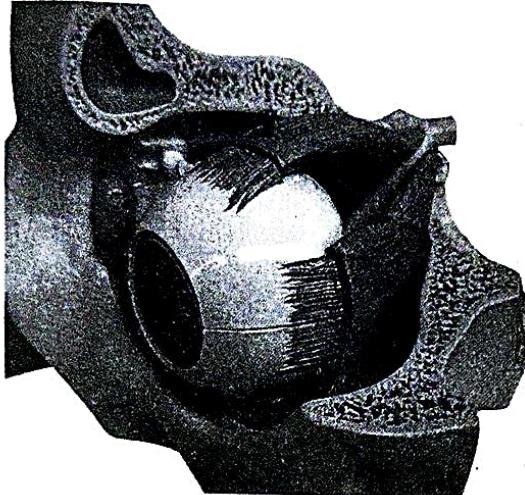


### 13. Study of structure or parts of human eye, ear and brain with the help of models or charts.

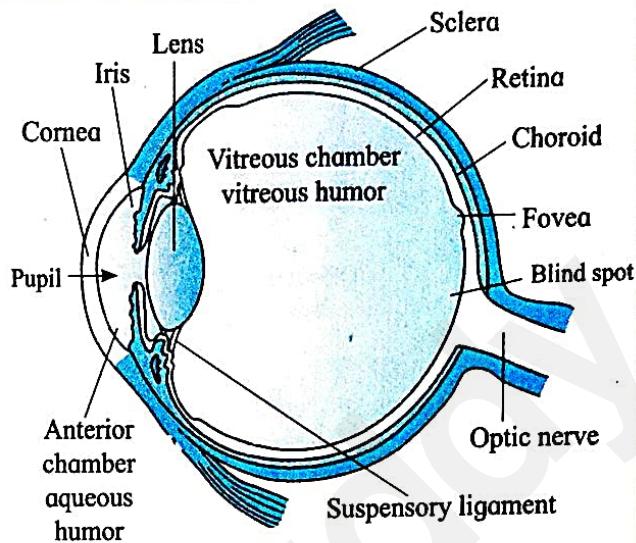
#### 1. Human eye :

Date : / /

Description can be added from the text book or of only specific regions can be given in short. From examination point of view for one mark, any one part with function can be asked.



A. Model



B. V. S. of eye

Fig. Structure of human eye

#### 2. Human ear :

Description can be added from the text book or of only specific regions can be given in short. From examination point of view for one mark, any one part with function can be asked.

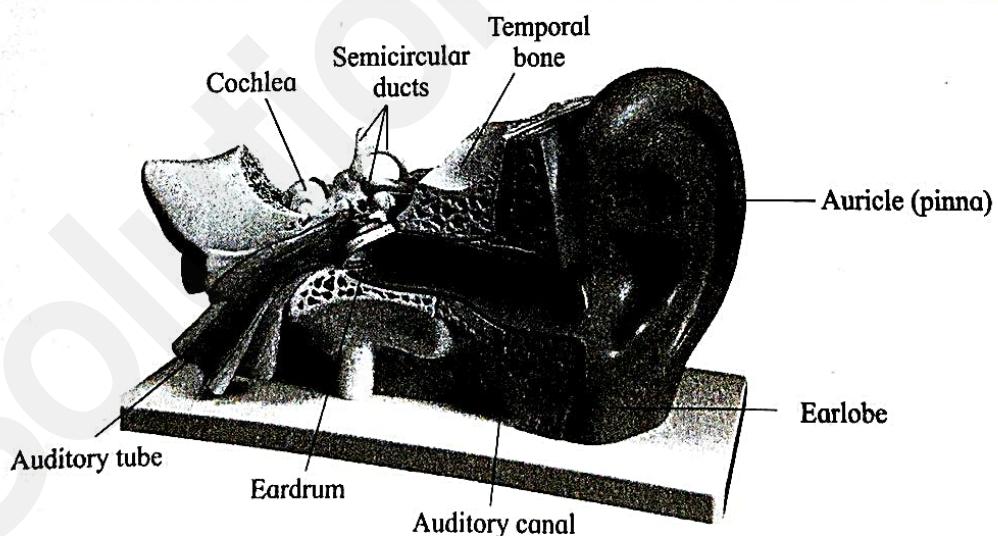
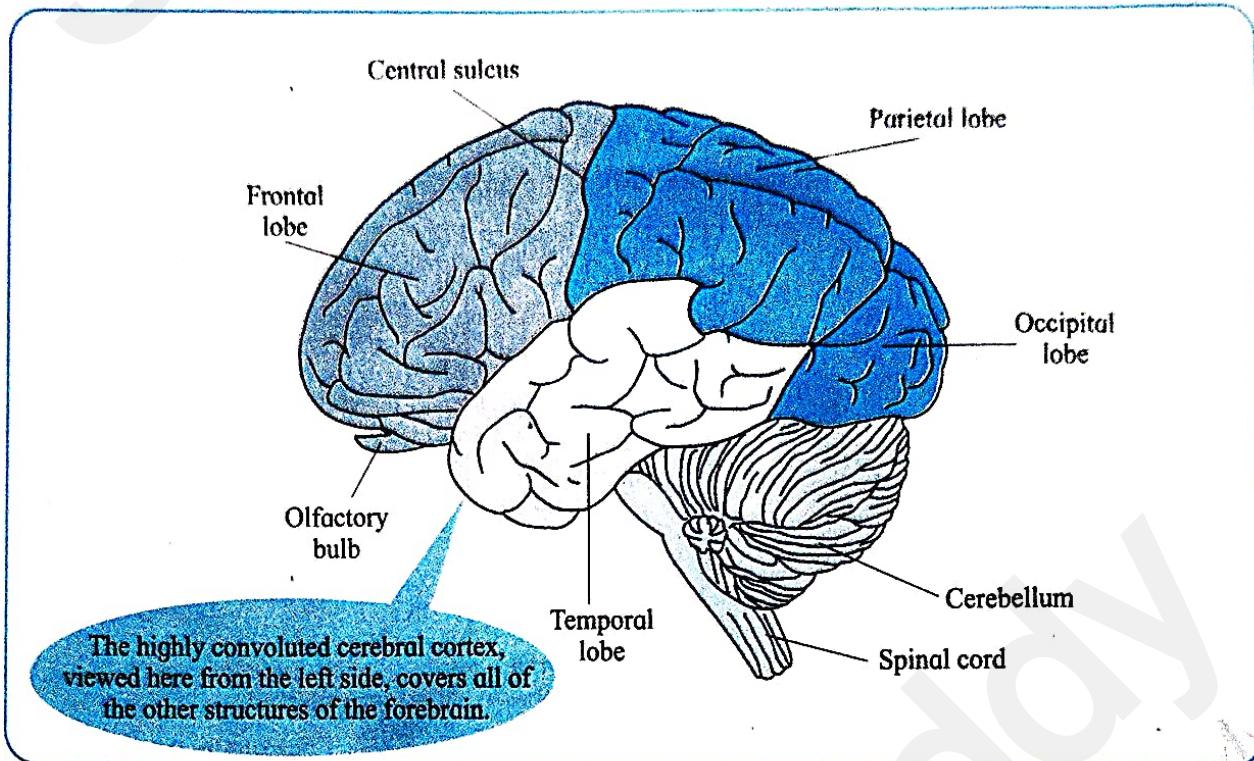


Fig. Structure of human ear

### 3. Functional areas of cerebrum :

Description can be added from the text book or of only specific regions can be given in short. From examination point of view for one mark, any one part with function can be asked.



**Fig. Structure of human brain**

#### Comments on functions of different parts :-

- ..... Human eye show three layers as 1. Fibrous Eye tunica. 2. Choroid. And 3. Retina.  
..... It also consists of cornea and conjunctive iris lens etc.

#### Ear

The human ear is called stato-acoustic organ and it has two functions - hearing and body equilibrium. Anatomically the ear is made up of three parts : the external ear, middle ear and inner ear.

#### Brain

1. **Frontal lobe:** They have motor areas which controls voluntary motor activities or movements of muscles it translates the thoughts into speech.
2. **Mental lobe:** They are mainly for somesthesia sensation of pain pressure and taste .
3. **Temporal lobe:** It contains centers for smell,speech, hearing and emotions.
4. **Occipital lobe:** They have visual area mainly for scene of vision.

Sketch diagrams and comment

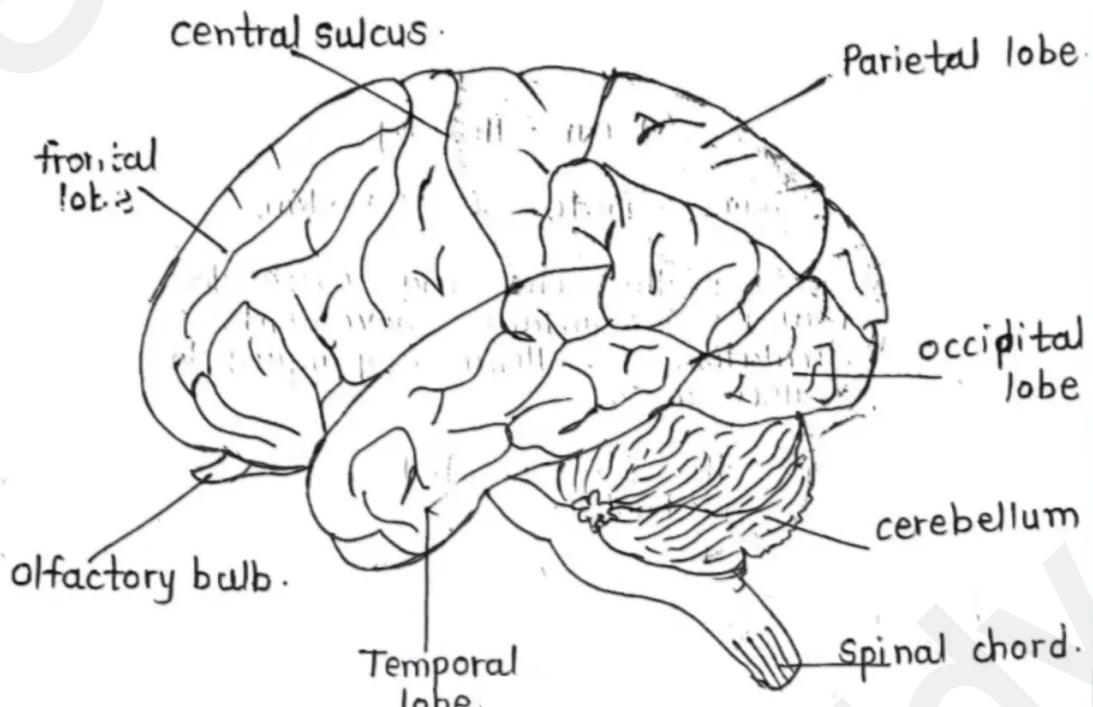
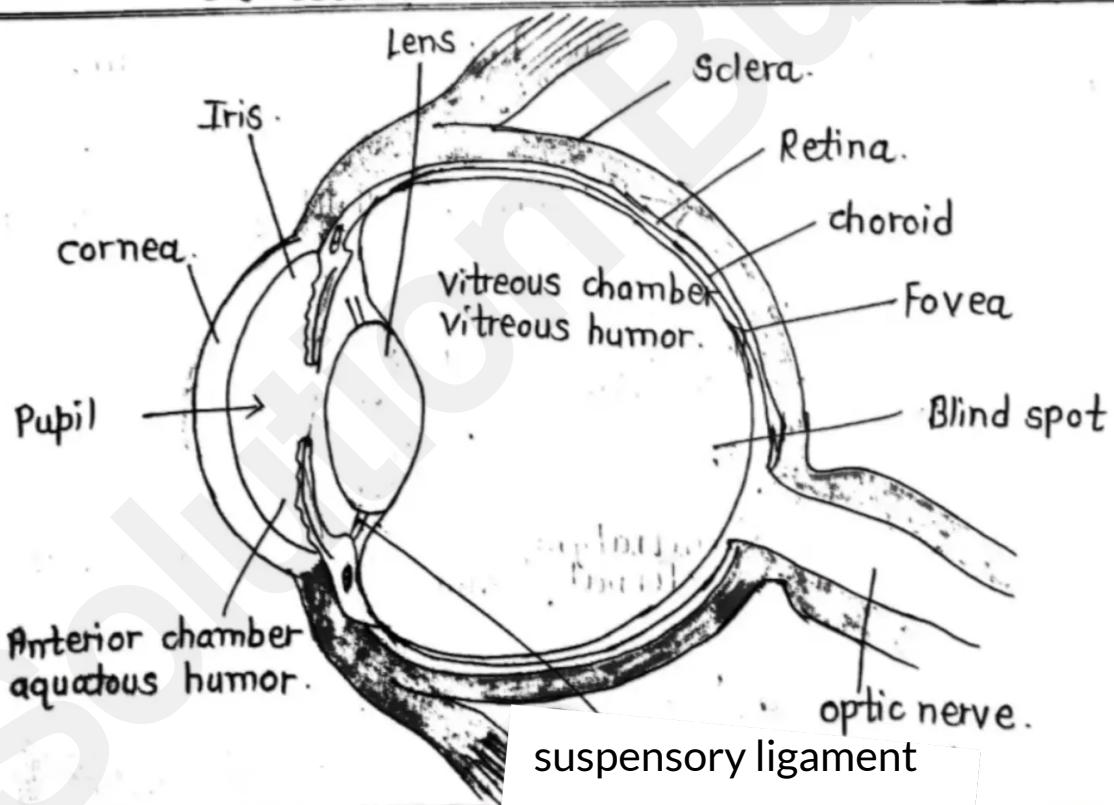


fig. structure of human brain



## Questions

1. Enlist difference sense organs in human and mention their functions separately.

- The major sense organs in humans are : .....
- 1. Eye for vision .....
  - 2. Ear for hearing .....
  - 3. Nose for smell .....
  - 4. Tongue for taste .....
  - 5. Skin for touch sensitivity. ....

2. Give reason - little damage to medulla oblongata causes sudden death.

Medulla oblongata is the controlling centre for heart and lungs. It regulates involuntary movements such as breathing , circulation etc. Hence little damage to Medulla oblongata causes sudden death.

3. What are the functions of cerebrum ?

The Cerebrum is the site of intelligence, memory and reasoning. It also involves involuntary activities. It is involved in functions as listening, smelling, etc.

4. Enlist the components of ear ossicles.

- the components of ear ossicle are .....
- 1. Malleus. ....
  - 2. Incus .....
  - 3. Steps .....

5. Give functions of each of the following :

**A. Retina:**

It is the photosensitive layer and pensive the light stimulus.

**B. Pupil:**

It regulates the intensity of light passing through the lens.

c. Vitreous chamber

**It's main fole is to maintain round shape of the eye as well as hello with vision clarity.**

d. Eustachian tube

It equalize the intratympanic air pressure with the pressure in the external auditory canal.

*Remark and Signature of Teacher .....*