## **BIOLOGY**



**Board - ICSE** 

**Class** – **10** 

## Topic - Nervous system and Sense Organ

1.	Fill in the blanks:		
	(i) Tympanic chamber is filled with		
	(ii) is the organ of balance and hearing in the body.		
	(iii) An inability to focus on nearby objects due to loss of elasticity of the lens with age is		
	called		
2.	True & False:		
	(i) Cochlea of the ear is concerned with the sense of balance.		
	(ii) Cones are the receptor cells in the retina of the eye sensitive to dim light.		
	(iii) Hypermetropia is a defect of the eye caused due to the eyeball elongation.		
	(iv) Rods are responsible for vision in the dark.		
3.	Match the Column:		
	Column A		Column B
	(i) Auditory (Eustachian tube)		(a) Provide information about the spatial orientation
			of the head.
	(ii) Incus		(b) Transfers vibrations from a bone to a membrane
	(iii) Semi-circular canal		(c) Equalizes pressure between the middle ear and
			the atmosphere.
	(iv) Oval window		(d) Transfers vibrations from a bone to a bone.
	(v) Stapes		(e) Transfers vibrations from a bone to a fluid.
4.	Multiple Choice Questions:		
	(i) The sequence of ear ossion		ssicles of vertebrates starting from the tympanum is:
	a)	Incus, Malleus, Stapes	
	b)	Stapes, Malleus, Incus	
	c)	Malleus, Incus, Stapes	
	d)	d) Stapes, Incus, Malleus	
	(ii) The aperture in the eye through which light enters is the:		
	a)	Pupil	
	b)	Conjunctiva	
	c) Ciliary muscles		
	d)	Choroid	
	(iii)	(iii) The parts of the human ear concerned with hearing are :	

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- a) Cochlea,, ear ossicles and tympanum
- b) Semicircular canals, Utriculus and sacculus
- c) Eustachian tube, tympanum and Utriculus
- d) Perilymph, ear ossicles and semicircular canals
- 5. Give Technical Terms:
  - (i) The nutritive layer of the eye which also presents reflection of light.
  - (ii) Name the part of the retina on which an object is focused for the clearest vision.
- 6. State the Location:
  - (i) Semicircular canals
  - (ii) Organ of Corti
  - (iii) Pinnae
- 7. Choose the Odd One Out:
  - (i) Semicircular canals, cochlea, Tympanum, Utriculus.
  - (ii) Myopia, cataract, Hypermetropia, Squint, cretinism.
  - (iii) Ciliary muscle, Chords, Fovea, Gustatory cells.
  - (iv) Pons, Cerebellum, Medulla Oblongata, Cerebrum.
- 8. Name the Following:
  - (i) Name the three small bones present in the middle ear. What is the biological term for them collectively?
  - (ii) Give the technical term for the structure found in the inner ear.
  - (iii) The area where the image is formed but not seen by our eye is termed as.
  - (iv) The innermost layer of the eye.
- 9. Explain the Terms:
  - (i) Accommodation in the eye
  - (ii) Presbyopia
- 10. Write the functional activity of the following structures:
  - (i) Choroid coat in the eye
  - (ii) Aqueous humour
  - (iii) Endolymph
  - (iv) Conjunctiva
- 11. Draw a diagram of the human eye as seen in a vertical section and label the parts which suits the following descriptions relating to the:
  - (i) Photosensitive layer of the eye.
  - (ii) Structure which is responsible for holding the eye lens in its position.

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- (iii) Structure which maintains the shape of the eye ball and the area of no vision.
- (iv) Anterior chamber seen in front of the eye lens.
- (v) Outer most transparent layer seen in front of the eye ball.
- 12. Give technical terms:
  - (i) What type of lens is used to correct?
    - a) Astigmatism
    - b) Myopia
    - c) Hypermetropia.
  - (iv) The path which responsible for protecting the eye from sweat.
  - (v) The type of lens used to correct myopia is
- 13. State the location:
  - (i) Yellow spot
  - (ii) Incus
  - (iii) Iris