



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Honours 5th Semester Examination, 2023

**CC11-PHYSIOLOGY**  
**SPECIAL SENSES**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

**GROUP-A**

1. Answer any **five** questions from the following: 1×5 = 5
- (a) What is the function of olfactory bulb?
  - (b) What is photopic vision?
  - (c) Mention the different Physiological Refractive errors.
  - (d) What is electroretinogram?
  - (e) Name the receptor cells of Organ of Corti.
  - (f) What is olfactory adaptation?
  - (g) Name the fluid present in cochlear.
  - (h) Name the different types of papillae present on the tongue.
  - (i) Name the nerves which serve the side and tip of the tongue.

**GROUP-B**

**Answer any three questions from the following** 5×3 = 15

2. (a) Name the type of cells present in the taste buds. 2  
(b) Trace the pathway for olfactory sensation. 3
3. (a) Explain briefly the mechanism of increase in the anterior curvature of the lens during accommodation. 3  
(b) What is conduction deafness? 2
4. (a) What is the role of middle ear in hearing? 2  
(b) Name the types of conduction of sound waves in the ear. 3
5. (a) What are Purkinje-Sanson image? 2  
(b) Define and classify light reflex. 3

6. (a) What is optic disk? 2  
(b) What are the function of aqueous humour? 3
7. Differentiate different hair cells. 5

**GROUP-C**

**Answer any two questions from the following**

10×2 = 20

8. (a) Describe the sense organ present in semicircular canals. 5  
(b) Describe Rinne's test. 3  
(c) What is cochlea? 2
9. (a) Describe the importance of Vestibular apparatus with special reference to body balance. 5  
(b) Describe image discrimination. 5
- 10.(a) What are the peculiarities of auditory pathway? 5  
(b) Explain the mechanism of auditory pathway. 5
- 11.(a) What is Lux? 2  
(b) What are contact lenses? What are their advantages and disadvantages? 2+6

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