

CBSE Question Paper – 2010
OPHTHALMIC TECHNIQUES (Vocational)
(Theory) paper III
Class – XII

Time allowed: 2 hours

Maximum Marks: 30

Instructions: Attempt all questions.

1. (a) List the parts of a compound microscope in sequence starting from the mirror up to your eyes, through which the light travels while you are examining a slide under it.
- (b) How does an electron microscope differ from a compound microscope in? Regard to
- (i) The nature of objective lens, and
 - (ii) The source of illumination?
2. (a) List the three major points of the cell theory.
- (b) Which one of the following does not match with the category of the organic? Compounds of the remaining three, and why?

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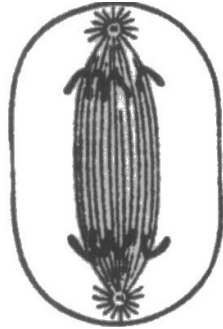
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Other Educational Websites:

ICSEGuess.com | NIOSGuess.com | IGNOUGuess.com | IITGuess.com | MagicSense.com | AIPMTGuess.com | AIEEEGuess.com | IndiaGuess.com

Lipase, Maltase, Pepsin, Insulin

3. Given below is a diagrammatic sketch of one of the stages of mitotic type of cell division.



- (i) Is it a plant cell or an animal cell? Give one reason in support of your answer.
- (ii) Name the stage that preceded it and draw a diagram of how it may have looked like.

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4. Taking the example of flower colour in garden pea, explain the terms allele, dominant and heterozygous.

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5. (a) Explain the term 'variation' with respect to the following features in humans ;
Height, ability to roll tongue and ABO blood groups.

- (b) Differentiate between continuous and discontinuous variations with respect to
The same three features mentioned above in (a).

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6. Write briefly about the following in humans as asked against each:

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- (i) Autonomies – meaning and their total number,

- (ii) Sex – linked characters – any two examples

Other Educational Websites:

(iii) Polygenic inheritance –definition and one example

1. Draw a labeled diagram of the general structure of a human sperm as observed through electron microscope. 3

2. Explain briefly the term alternation of generations as found in angiosperms. 3

3. Write about the following diseases as asked against each : 3
 - (i) Typhoid : Mode of transmission and any one main symptom

 - (ii) Rabies : Category of pathogen and mode of transmission

 - (iii) Ringworm : Category of pathogen and the body part affected

4. (i) Define disease. 3
 - (ii) Mention any one difference between infectious diseases and non – infectious Diseases.

 - (iii) How do mosquitoes

5. (i) What is a forest? 3
 - (ii) List any four ways how forests are advantageous to us.

6. Name the micro – organism which the bakers use in making bread, and briefly describe the steps and the process involved. 3

Other Educational Websites: