

SAMPLE PAPER

**SYLLABUS 2023-24** 



## SYLLABUS OF BIOLOGY OLYMPIAD

**Biology :** Diversity in Living World, Structural Organization in Plants & Animals, Cell Structure and Functions, Plants physiology, Human physiology



1.	Linneaus system of classification is			
	(A) Artificial	(B) Progressive		
	(C) Natural	(D) Phylogenetic		
2.	Two similar holotypes are called			
	(A) Isotypes	(B) Syntypes		
	(C) Neotypes	(D) Mesotypes		
3.	In short day plants, flowering is induced by			
	<ul> <li>(A) photoperiod below a critical length and uninterrupted long night.</li> </ul>			
	(B) long night			
	(C) short photoperiod and interrupted long night.			
	(D) photoperiod less than 12 hours.			

4. Which of the following types of phytohormones resemble the nucleic acids in some structural aspects ?
(A) Cytokinin (B) ABA
(C) Auxin (D) Gibberellin

5.	Pseudostratified epitheli (A) respiratory tract (C) oesophagus	ium is found in (B) kidney (D) urinary tract		
6.	The nucleolus is the site (A) ribosomes (C) chromosomes	e of formation of (B) spindle fibres (D) peroxisomes		
7.	The cell as a basic unit of was discovered by (A) Schleiden and Schwa (C) Robert Hooke	of structure of living beings rann (B) Gregore Mendel (D) Aristotle		
8.		deficient in because v charged and do not stick ay particles. (B) Ammonium (D) None of these		

SPACE FOR ROUGH WORK

ANSWERS								
(1) A	(2) A	(3) C	(4) B	(5) C	(6) A	(7) A	(8) A	

## ED VNO OLYMPIAD

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## SYLLABUS OF BIOLOGY OLYMPIAD

**Biology :** Reproduction, Genetics and Evolution, Biology and Human welfare, Biotechnology and its Applications, Ecology and Environment

CLASS 12

- Oestrus cycle is seen in

   (A) cows and sheep
   (B) rats and deers
   (C) dogs and tiger
   (D) all of the above
- 2. Syngamy means
  - (A) fusion of gametes
  - (B) fusion of cytoplasms
  - (C) fusion of two similar spores
  - (D) fusion of two dissimilar spores
- What is common amongst whale, seal and shark ?
   (A) Homoiothermy
   (B) Seasonal migration
   (C) Thick subcutaneous fat
   (D) Convergent evolution
- **4.** In humans, male germs cells differentiate into \_\_\_\_ at the end of first meiotic division.
  - (A) spermatid (B) spermatogonium
  - (C) secondary spermatocyte (D) primary spermatocyte
- 5. Primary productivity
  - (A) is equal to the standing crop of an ecosystem.
  - (B) is greatest in freshwater ecosystems.
  - (C) is the rate of conversion of light to chemical energy in an ecosystem.
  - (D) is inverted in some aquatic ecosystems

- 6. Appearance of antibiotic resistance bacteria is an example of
  - (A) Adaptive radiation (B) Transduction
    - (D) Divergent Evolution
- 7. Desired properties plants and Animals are possible by Which reproduction.
  - (A) Genetic Engineering

(C) Pre-existing variation

- (B) Chromosomal Engineering
- (C) Ekabana technology
- (D) Bonsai technology
- 8. In an ecosystem of abiotic components which of the following occur ?
  - (A) Flow of energy (C) Consumers
- (B) Cycling of materials(D) Flow of energy &
  - cycling of materials

## SPACE FOR ROUGH WORK

ANSWERS							
(1) D	(2) A	(3) D	(4) C	(5) C	(6) A	(7) A	(8) B