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INTERACTIVE OLYMPIADS

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**NATIONAL
BIOTECHNOLOGY
OLYMPIAD**

N B T O

6
Class

A1
Paper
Code

Academic Partner ——— WWW.EDUSYS.IN

Creating
SUCCESS
Stories

A Unit of EDUSYS LEARNING MEDIA

AIEEE • IIT • PMT • OLYMPIADS

IMPORTANT INFORMATION

- You are allowed additional 10 minutes to fill the required details in the **RESPONSE SHEET**.
- The question paper is made as per syllabus guidelines & pattern given in the information Booklet. The Question Paper for Classes 1 to 6 contains 25 Questions each to be answered in 40 minutes. The Question paper for classes 7 to 12 contains 50 Questions each to be answered in 60 minutes. All questions are compulsory. Further instructions are given in the instruction letter to the coordinator teacher.
- Use the response sheet to mark your responses by darkening the required circle. The response sheet has to be returned to the foundation, duly filled in. The student can retain the Question Paper.

GENERAL KNOWLEDGE

- Which of the following is not a consequence of deforestation?
(1) Endangered human and animal existence
(2) Population explosion
(3) Global warming
(4) None of these
- Water pollution is caused by
(1) Industrial waste (2) Sewage
(3) Domestic waste (4) All of these
- Special waste includes
(1) Pesticides and pharmaceuticals
(2) Radioactive waste from nuclear
(3) Both (1) and (2)
(4) None of these
- Which of the following will become less in future if we use it more and more?
(1) Kerosine oil (2) Wood
(3) Water (4) All of these

- From environment point of view using plastic tea cups is better than earthen cups
(1) No (2) Yes
(3) Can't say (4) None of these

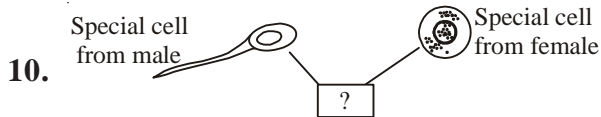
EVS

- Which bacteria is used to make curd?
(1) *Escherichia coli* (2) *Lactobacillus*
(3) *Mycobacterium* (4) None of these
- Which is the smallest unit in terms of heredity?
(1) Cell (2) Gene
(3) DNA (4) None of these
- Pollen grains are produced in the
(1) Ovaries (2) Anthers
(3) Fruits (4) None of these
- The type of molecule represented below is found in organisms.



Which statement correctly describes the sequence of bases found in this type of molecule?

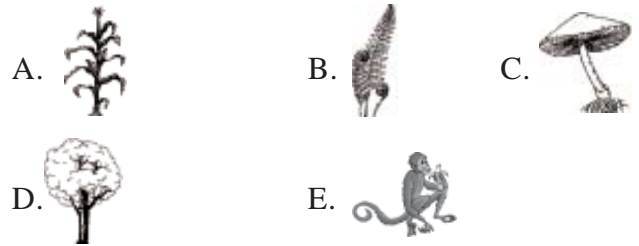
- (1) It changes every time it multiplies.
- (2) It determines the characteristics that will be inherited.
- (3) It is exactly the same in all organisms.
- (4) None of these



Cell formed at ? is called

- (1) Egg
 - (2) Sperm
 - (3) Zygote
 - (4) None of these
11. Which of the following is/are the technique(s) that come(s) under biotechnology?
- (1) Tissue culture
 - (2) Genetic engineering
 - (3) Fermentation
 - (4) All of these
12. When a polythene bag is tied around the leaf of a plant, the water droplets appear on it due to
- (1) Evaporation
 - (2) Transpiration
 - (3) Perspiration
 - (4) None of these
13. Salt is removed from sea water through
- (1) Reverse osmosis
 - (2) Sedimentation
 - (3) Chlorination
 - (4) None of these
14. Field of science dealing with the combination of biological, computer and information science necessary to manage, process and understand large amount of data is called
- (1) Computer science
 - (2) Biotechnology
 - (3) Bioinformatics
 - (4) None of these
15. Which condition would most likely upset the stability of an ecosystem?
- (1) A cycling of elements between organisms and the environment
 - (2) Green plants incorporating sunlight into organic compounds
 - (3) A greater mass of animals than plants
 - (4) None of these
16. The muscles of heart are called
- (1) Pumping muscles
 - (2) Biceps
 - (3) Cardiac muscles
 - (4) None of these
17. In which organ oval window is found?
- (1) Ear
 - (2) Eye
 - (3) Nose
 - (4) None of these

18. Which two organisms represented below are heterotrophic?



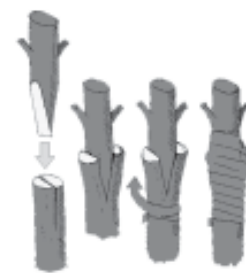
- (1) A and B
 - (2) B and C
 - (3) C and E
 - (4) None of these
19. Oral Rehydration salts solution is beneficial for any body, who has _____
- (1) Fever
 - (2) Diarrhoea
 - (3) Malaria
 - (4) None of these
20. Simple representation of energy flow in nature
- (1) Food web
 - (2) Food Triangle
 - (3) Food Chain
 - (4) None of these

EtG INTERACTIVE SECTION

21. The picture given below illustrate the process of

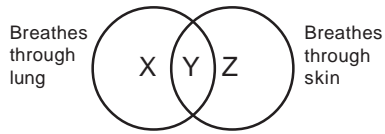


- (1) Grafting
 - (2) Genetic engineering
 - (3) DNA finger printing
 - (4) None of these
22. Look at the picture. Which process it illustrates?



- (1) Tissue culture
- (2) Reproduction
- (3) Grafting
- (4) None of these

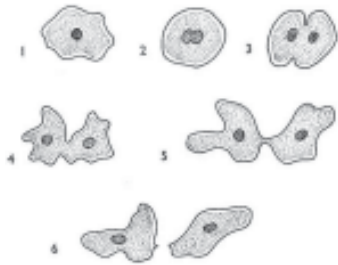
23. Study the venn diagram given below.



Which of the following correctly represent x, y, z?

- | | X | Y | Z |
|-----|---------------|--------------|-----------|
| (1) | Tadpole | Water spider | Whale |
| (2) | Man | Frog | Earthworm |
| (3) | Fish | Rat | Frog |
| (4) | None of these | | |

24. This process shows



- (1) Tissue culture
- (2) Reproduction in unicellular organism
- (3) Cutting
- (4) None of these

25. Which diagram represents the reproductive process of



- (1) Grafting
- (2) Vegetative growth
- (3) Budding
- (4) None of these



END OF THE EXAM

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