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EDUHEAL FOUNDATION CONDUCTS 8 OLYMPIADS ANNUALLY REACHING OUT TO 3,500 + SCHOOLS

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ICO INTERNATIONAL CYBER OLYMPIAD	NISO NATIONAL INTERACTIVE SCIENCE OLYMPIAD	NIMO NATIONAL INTERACTIVE MATHS OLYMPIAD	NBTO NATIONAL BIOTECHNOLOGY OLYMPIAD	IEO INTERNATIONAL ENGLISH OLYMPIAD	IGO INTERNATIONAL G.K. OLYMPIAD	BIFO BSE INTERNATIONAL FINANCE OLYMPIAD	NIPO NATIONAL IIT-PMT OLYMPIAD
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Level - 1 : All Level-1 successful* participants will get certificate, aptitude report and online subscription, and school toppers will be eligible for school hero medals.

Level - 2 : School toppers* will be selected for level-2-National level - online computer based interactive test held at exam centres all over India. Besides selection for level-3, winner will get merit certificate, medals, educational CDs, laptop, scholarship and other prizes. There is no level 2 in Art, G.K. and Biotech.

Level - 3 : Toppers will qualify# for level 3-International level-where you will compete with students globally. Get selected for EHF's International Olympiad training camp. Only Indian organization giving students exposure to global competitions. Represent India & win laurels. Guidance by top scientists. Prizes ranges from cash (millions of \$), gadgets, foreign trips, publicity, fame, scholarships, Internships, conference participation and more. Level 3 is in Maths, Science & Cyber only.

*# See prospectus/website for details

- You are allowed additional 10 minutes to fill the required details in the **RESPONSE SHEET (OMR)**. **STUDENTS OF CLASS 1 & 2 HAVE TO UNDERLINE** THE CORRECT ANSWER IN THE QUESTION PAPER ITSELF. THEY ARE NOT REQUIRED TO USE THE RESPONSE SHEET (OMR). THEY HAVE TO FILL THEIR NAME, ROLL NUMBER, CLASS, SCHOOL NAME IN THE SPACE PROVIDED IN THE QUESTION PAPER.
- 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 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 EXCEPT FOR CLASSES 1 AND 2.**

EHF
NATIONAL
BIOTECHNOLOGY
OLYMPIAD

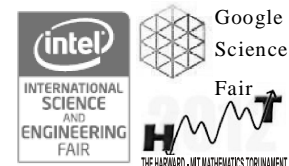
N B T O

6
Class

A1
Paper
Code

L E V E L - 1

Academic Partner — WWW.EDUSYS.IN



ORACLE ThinkQuest
EDUCATION FOUNDATION

GENERAL KNOWLEDGE

1. Preserving germplasm in frozen state:

- (1) Cryopreservation
- (2) Cold storage
- (3) In situ preservation
- (4) None of these

2. Structure of DNA was proposed by:

- (1) Kornberg
- (2) Nirenberg
- (3) Watson and Crick
- (4) None of these

3. The blanket of air that envelops the earth:

- (1) Hydrosphere
- (2) Atmosphere
- (3) Lithosphere
- (4) None of these

4. In tissue/bacterial culture glassware and nutrients are sterilized through:

- (1) Water bath at 200°C
- (2) Dry air oven at 200°C
- (3) Autoclave
- (4) None of these

5. It is now possible to breed plants and animals with desired characters through:
- (1) Genetic engineering
 - (2) Chromosome engineering
 - (3) Bonsai technique
 - (4) None of these

EVS

6. The black spot in the centre of the Iris is:
- (1) Lens
 - (2) Pupil
 - (3) Retina
 - (4) None of these
7. Which of the following is a water soluble vitamin?
- (1) Vitamin A
 - (2) Vitamin D
 - (3) Vitamin C
 - (4) None of these
8. The process of removing seeds from cotton:
- (1) Ginning
 - (2) Spinning
 - (3) Both (1) and (2)
 - (4) None of these
9. Why silk doesn't need to be detangled like wool?
- (1) Silk is obtained directly as thread from cocoon
 - (2) Thread from single cocoon can be used as yarn directly
 - (3) Both (1) and (2)
 - (4) None of these
10. Deficiency of which nutrient makes a person thin, weak and causes stunted growth?
- (1) Proteins
 - (2) Fats
 - (3) Minerals
 - (4) None of these

11. Which minerals help in maintaining fluid balance in the body?
- (1) Calcium and Iodine
 - (2) Sodium and Potassium
 - (3) Zinc and Iron
 - (4) None of these
12. Pollen grains are produced in:
- (1) Ovaries
 - (2) Filaments
 - (3) Anthers
 - (4) None of these
13. Which of the following has variegated leaves?
- (1) Balsam
 - (2) Coleus
 - (3) Pea
 - (4) None of these
14. ____ bud helps in the length wise growth of the plant:
- (1) Apical
 - (2) Axillary
 - (3) Both (1) and (2)
 - (4) None of these
15. Which inert gas makes up major part of the air?
- (1) Argon
 - (2) Helium
 - (3) Nitrogen
 - (4) None of these
16. Which bacteria is used to make curd?
- (1) Escherichia coli
 - (2) Lactobacillus
 - (3) Mycobacterium
 - (4) None of these
17. A chemical substance, often natural that inhibits or kills the growth of bacteria is called:
- (1) Antibiotic
 - (2) Vaccine
 - (3) Alcohol
 - (4) None of these

- 18.** What are the three R's which are used to help in the preservation of environment?
- (1) Reduce, Refuse, Recycle
 - (2) Reduce, Reuse, Recycle
 - (3) Retain, Reduce, Recycle
 - (4) None of these
- 19.** Which of the following technique can solve the child parent relationship issue?
- (1) Traditional fingerprinting
 - (2) DNA fingerprinting
 - (3) Tissue culture
 - (4) None of these
- 20.** Which of the following is true about a cloned organism?
- (1) Cloned organism is of the same age of the mother.
 - (2) Cloned organisms are identical both physically and genetically.
 - (3) Cloned organisms never die.
 - (4) None of these.
- 21.** Which kind of garbage is not converted into compost by red worms?
- (1) Garbage which contains polythene bags and broken toys.
 - (2) Garbage which contains cloth, broken glass and aluminium wrappers.
 - (3) Garbage which contains nails and old shoes.
 - (4) All of these
- 22.** A totipotent cell means:
- (1) An undifferentiated cell capable of developing into an organ.
 - (2) An undifferentiated cell capable of developing into a system or entire plant.
 - (3) An undifferentiated cell capable of developing into a complete embryo.
 - (4) None of these
- 23.** Development of shoot and root in tissue culture is determined by:
- (1) Cytokinin and auxin ratio
 - (2) Enzymes
 - (3) Temperature
 - (4) None of these
- 24.** Which of the following best describes the role of mushrooms in ecosystems?



- (1) Capturing energy from sunlight
- (2) Consuming living plant material
- (3) Breaking down dead plant material
- (4) None of these

INTERACTIVE SECTION

- 21.** A lump of cotton wool shrinks in water because:
- (1) When cotton wool is dipped in water, the air goes out of the lump.
 - (2) When cotton wool is dipped in water, air enters the lump of cotton wool.
 - (3) When cotton wool is dipped in water, surface tension of water decreases.
 - (4) None of these



END OF THE EXAM