

# EDUHEAL FOUNDATION

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

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IN ENGLISH / MATHS / SCIENCE / BIOTECH / COMPUTER / G.K. / ARTS / CRICKET / FINANCE & 300 REGIONAL COORDINATORS.

WEBSITE : [WWW.EDUHEALFOUNDATION.ORG](http://WWW.EDUHEALFOUNDATION.ORG) • E-MAIL : [INFO@EDUHEALFOUNDATION.ORG](mailto:INFO@EDUHEALFOUNDATION.ORG)

<b>ICO</b> INTERNATIONAL CYBER OLYMPIAD	<b>NISO</b> NATIONAL INTERACTIVE SCIENCE OLYMPIAD	<b>NIMO</b> NATIONAL INTERACTIVE MATHS OLYMPIAD	<b>NBTO</b> NATIONAL BIOTECHNOLOGY OLYMPIAD	<b>IEO</b> INTERNATIONAL ENGLISH OLYMPIAD	<b>IGO</b> INTERNATIONAL G.K. OLYMPIAD	<b>BIFO</b> BSE INTERNATIONAL FINANCE OLYMPIAD	<b>NIPO</b> 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.**

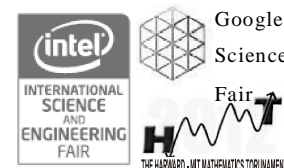
**EHF**  
NATIONAL  
**BIOTECHNOLOGY**  
OLYMPIAD

**N B T O**

**5**  
Class

**A1**  
Paper  
Code

**L E V E L - 1**



## GENERAL KNOWLEDGE

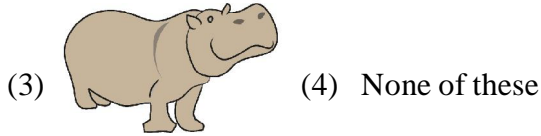
- Which are the environmental applications of Biotechnology?
  - Use of microbes to clean up an oil spill
  - Use of microbes for fungal or algae outbreak
  - Both (1) and (2)
  - None of these
- Which are the units of hereditary information?
  - Genes
  - Blood
  - Platelets
  - None of these
- The project which opened important questions regarding human evolution and about DNA is:
  - Tree of Life Web Project
  - Human Genome Project

- The Human Origins Project
- None of these
- 70% of an adult's body is made up of :
  - Water
  - Air
  - Organs
  - None of these
- Soft drinks, tea and coffee contain a mild diuretic called:
  - Enzyme
  - Hormone
  - Caffeine
  - None of these

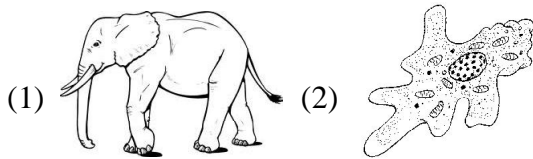
## EVS

- The vitamin which helps in blood clotting :
  - Vitamin A
  - Vitamin K
  - Vitamin D
  - None of these

7. Which of the following is an endangered species?



8. Which organism is made up of one cell?



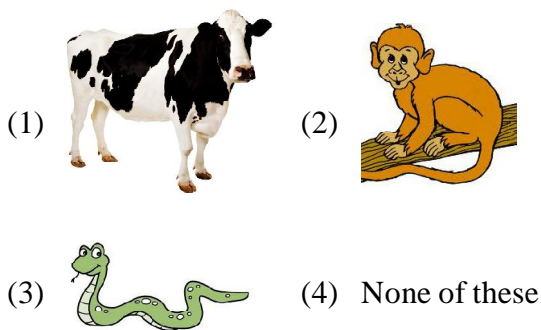
9. Which of the following is a mobile house?

- (1) Caravan (2) Igloo  
(3) Kuchha (4) None of these

10. Which is a natural source of vitamin D?

- (1) Wind (2) Sun light  
(3) Flower (4) None of these

11. Which is a cold blooded animal?



12. Involuntary actions such as breathing and circulation are controlled by:

- (1) Medulla (2) Cerebrum  
(3) Cerebellum (4) None of these

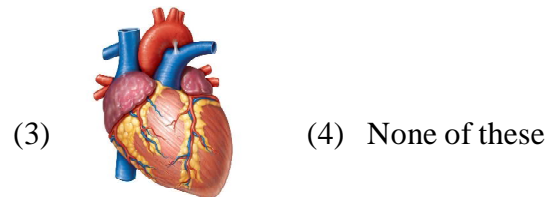
13. Which of the following is a deficiency disease?

- (1) Kwashiorkor  
(2) Influenza  
(3) Both (1) and (2)  
(4) None of these

14. The layer of gas which protects us from the harmful rays of the sun:

- (1) Stratosphere  
(2) Ozone  
(3) Ionosphere  
(4) None of these

15. Which is an internal organ?



16. Which is correctly arranged?

- (1) DNA  $\xrightarrow{\text{in}}$  Cell  $\xrightarrow{\text{in}}$  Nucleus  $\xrightarrow{\text{in}}$  Body  
(2) DNA  $\xrightarrow{\text{in}}$  Chromosomes  $\xrightarrow{\text{in}}$  Nucleus  $\xrightarrow{\text{in}}$  Cell  $\xrightarrow{\text{in}}$  Body  
(3) Nucleus  $\xrightarrow{\text{in}}$  DNA  $\xrightarrow{\text{in}}$  Chromosomes  $\xrightarrow{\text{in}}$  Body  $\xrightarrow{\text{in}}$  Cells  
(4) None of these




17. "Finger prints of identical twins are identical"

This statement is :

- (1) True (2) False  
(3) Can't say (4) None of these

18. Which of the following will be least helpful in DNA fingerprint analysis?
- (1) Bits of bones at that place
  - (2) Photographs of crime scene
  - (3) Blood spots of the person present there
  - (4) None of these

19.

A	B	C
		
Natural degradation of Biodiversity	Mountain of Biodiversity	Human caused degradation of biodiversity

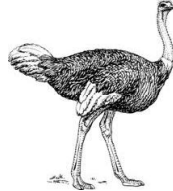


Look at the pictures shown above. Which pictures will you use to symbolise 'volcano'?

- (1) A
  - (2) B
  - (3) C
  - (4) None of these
20. We can protect our biodiversity through:
- (1) Destruction
  - (2) Conservation
  - (3) Erosion
  - (4) None of these



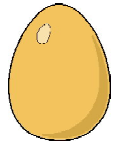
### INTERACTIVE SECTION

21. The offspring of a cross between individuals of different genotypes is called:
- (1) Hybrid
  - (2) Trait
  - (3) Clone
  - (4) None of these
22. The creation of synthetic or semisynthetic tissue that can be used instead of human tissue in surgery:
- (1) Tissue culture
  - (2) Tissue engineering
  - (3) Cloning
  - (4) None of these




23. The smallest living bird in the world is:

(1) 	(2) 
(3) 	(4) None of these

24. Which of the following causes food allergy in some people?

(1) 	(2) 
(3) 	(4) None of these

25. As a baby which animal looks most different from its parent?

(1) 	(2) 
(3) 	(4) None of these



**END OF THE EXAM**