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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.**

E H F
NATIONAL
INTERACTIVE
SCIENCE
OLYMPIAD

N I S O

6
Class

A1
Paper
Code

LEVEL - 1

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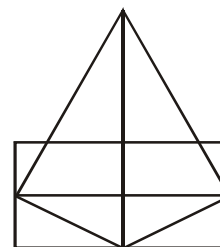
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THE HARVARD - IIT MATHEMATICS TOURNAMENT

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EDUCATION FOUNDATION

GENERAL IQ

- If the diagonals of a quadrilateral bisect each other, then the quadrilateral is _____.
(1) Rhombus (2) Parallelogram
(3) Trapezium (4) None of these
- What is the multiplicative inverse of $8\frac{3}{2}$?
(1) $19\frac{1}{2}$ (2) $\frac{2}{19}$
(3) $20\frac{1}{2}$ (4) None of these
- On another planet, the local terminology for earth, water, light, air and sky are 'sky', 'light', 'air', 'water' and 'earth' respectively. If some one is thirsty there, what would he drink?
(1) Sky (2) Light
(3) Air (4) None of these

- Find the no. of triangles in the given figure.

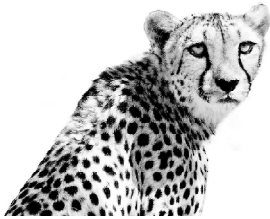


- (1) 11 (2) 13
(3) 15 (4) None of these
- If Y is in the east of X which is in the north of Z. If P is in the south of Z, then in which direction of Y, is P?
(1) North (2) South
(3) South-East (4) None of these

GENERAL SCIENCE

6. Where does food pass through between the mouth and the stomach?
 (1) The gullet (2) The rectum
 (3) The small intestine (4) None of these

7. What is the average speed of this animal?



- (1) 40 miles/hr (2) 70 miles/hr
 (3) 140 miles/hr (4) None of these
8. Digestion takes place in a long tube-like canal called the alimentary canal or the digestive tract. Food travels through these organs in the following order:
 (1) Mouth, gullet, stomach, small intestine, large intestine and rectum
 (2) Mouth, oesophagus, stomach, large intestine, small intestine and rectum
 (3) Mouth, stomach, oesophagus, small intestine, large intestine and rectum
 (4) None of these
9. What is the digestive system?
 (1) The body's breathing system
 (2) The body's system of nerves
 (3) The body's food-processing system
 (4) The body's blood-transporting system

10. Match the following food items with their nutrients:

Food Items	Nutrients
1. Egg, meat and fish	i. Vitamins
2. Butter, oil, ghee and nuts	ii. Proteins
3. Wheat, rice and maize	iii. Carbohydrates
4. Milk, nuts, banana, pear and lady finger	iv. Fats
(1) 1-ii, 2-iv, 3-i, 4-iii	(2) 1-i, 2-iv, 3-ii, 4-iii
(3) 1-ii, 2-iv, 3-iii, 4-i	(4) None of these

11. Pot-belly is a symptom of _____.

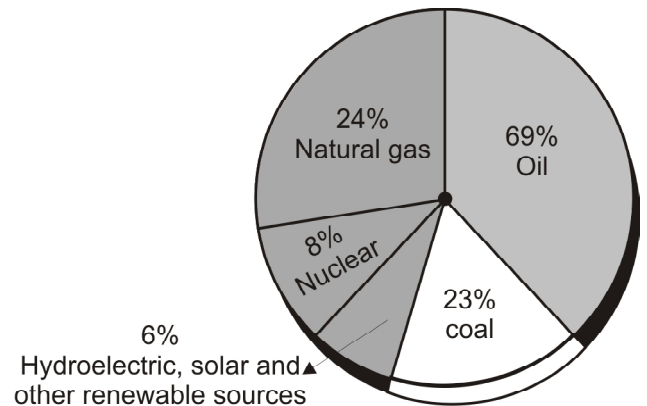
- (1) Kwashiorkor
 (2) Goitre
 (3) Anaemia
 (4) None of these

12. The plants and animals that live on land are said to be living in

- (1) Aquatic habitat
 (2) Saline habitat
 (3) Terrestrial habitat
 (4) None of these

13. How would the woodpecker population in a forest most likely be affected if a housing development is built in that area?

- (1) They would produce more offspring.
 (2) They would change the colour of their eyes.
 (3) They would experience a decrease in available food
 (4) None of these



Direction : The given pie chart shows the energy sources of a country. Refer to the pie chart to answer the question no. 14 and 15.

14. Which group makes up for nearly all the energy presently used in this country?

- (1) Nuclear and hydroelectric, solar and renewable other sources.
 (2) Oil and gas
 (3) Coal and nuclear
 (4) None of these

INTERACTIVE SECTION

15. Which sources provide the most similar amounts of energy?

- (1) Oil and coal
- (2) Coal and gas
- (3) Gas and nuclear
- (4) None of these

16. The renewable resource are

- (1) Sunlight
- (2) Coal
- (3) Petroleum
- (4) None of these

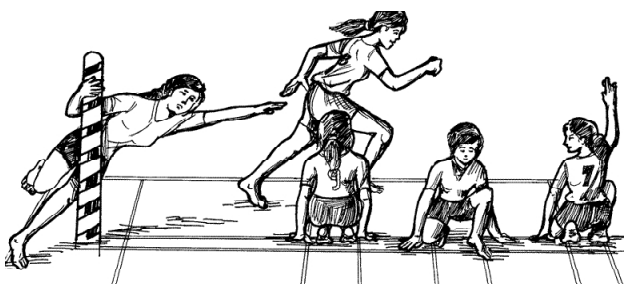
17. The non-renewable resources are

- (1) Minerals
- (2) Coal
- (3) Both (1) & (2)
- (4) None of these

18. _____ should be constructed to prevent floods.

- (1) Dams
- (2) Factories
- (3) Houses
- (4) None of these

19. Identify the sport.

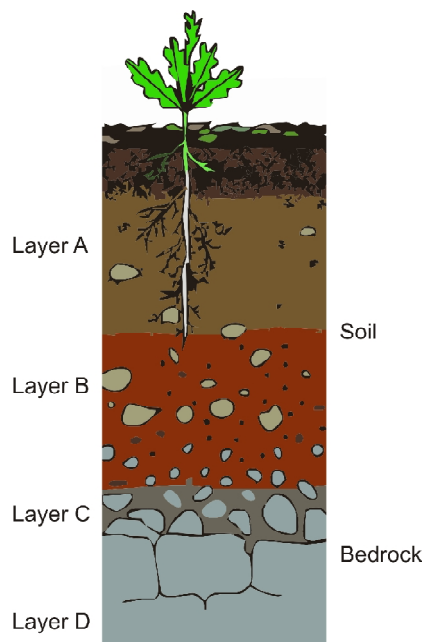


- (1) Kabaddi
- (2) Kho-Kho
- (3) Wrestling
- (4) None of these

20. The moon produces no light, and it shines at night, why do this happen?

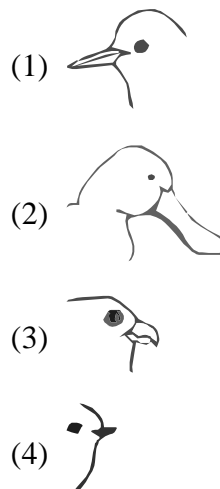
- (1) The moon reflects the light from the sun.
- (2) The moon rotates at a very high speed.
- (3) The moon has many craters.
- (4) None of these

21. Which layer in the diagram contains the most organic material?



- (1) Layer A
- (2) Layer B
- (3) Layer C
- (4) None of these

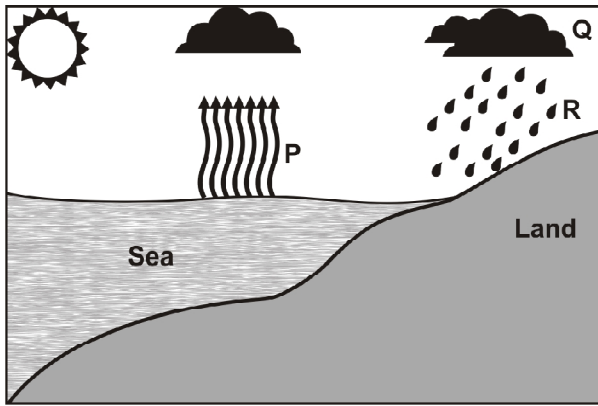
22. Which of the following is the beak of duck?



23. Wheat : Rabi :: _____ : Kharif.

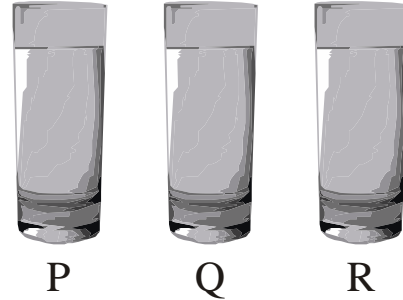
- (1) Gram
- (2) Cauliflower
- (3) Pumpkin
- (4) None of these

24. The diagram below represents the water cycle. Name the processes that are labelled P, Q and R.



- (1) Evaporation, condensation and rain
- (2) Condensation, rain and evaporation
- (3) Evaporation, rain and condensation
- (4) None of these

25. Three glasses P, Q, and R having equal amount of water was taken and equal amount of salt was added to each one of them. After that, P was cooled, Q was heated and R was left undisturbed. The liquid in which glass will now taste most salty?



- (1) P
- (2) Q
- (3) R
- (4) None of these



END OF THE EXAM