EHF

LEARNING FOR LIFE

EDUHEAL FOUNDATION

CLASS 6

LEVEL – 1

Set A1

EHF OLYMPIADS

• 4000 schools • 6 lakh students

• 10 olympiads • Global outreach

NATIONAL IIT-PMT OLYMPIAD (NIPO)

EHF NATIONAL IIT-PMT OLYMPIAD

Name : .....

Roll No : .....

Class : .....

School : .....

BSE international finance olympiad (BIFO)

NATIONAL IIT-PMT OLYMPIAD (NIPO)

Level - 1 : All Level-1 successful* participants will get certificate, apititude 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 and Cricket.

Level - 3 : Toppers will qualify# for level-3-International level-where you will compete with students globally. Get selected for EHFs 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.

* # See prospectus/website for details

Instructions for the Candidate

1. You are allowed additional 10 minutes to fill the required details in the RESPONSE SHEET (OMR).
2. 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.
3. 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.

WEBSITE : WWW.EDUHEALFOUNDATION.ORG
E-MAIL : INFO@EDUHEALFOUNDATION.ORG

ROUGH WORK

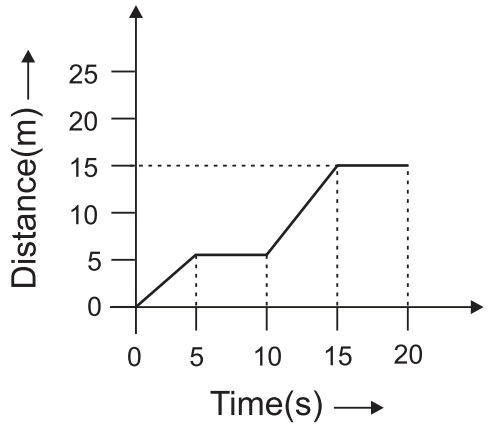
SCIENCE

1. Image formed by a pinhole camera is

(1) Erect and enlarged
(2) Erect and diminished
(3) Inverted and enlarged
(4) Inverted and diminished

2. Speed of an object is defined as the distance travelled by it per unit time. Using the given distance-time graph of an object, answer the following question.

In which time interval, speed of the object is maximum?



(1) (0 – 5) sec (2) (5 – 10) sec
(3) (10 – 15) sec (4) (15 – 20) sec

3. Among the following, identify the water soluble gas which is essential for the survival of aquatic life.

(1) Nitrogen (2) Hydrogen
(3) Oxygen (4) Helium

4. Assertion (A): Gold is used for making jewellery, coins etc.

Reason (R): It is relatively hard metal.

(1) Both (A) and (R) are true and (R) is the correct reason of (A).
(2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
(3) (A) is true but (R) is false.
(4) (A) is false but (R) is true.

5. Our hair and nails contain

(1) Protein (2) Calcium
(3) Chlorine (4) Phosphorus

6. Which fibre is obtained from Flax seeds?

(1) Cotton
(2) Jute
(3) Linen
(4) Nylon

7. Which of the following joints is found in cranium?

(1) Gliding joint
(2) Ball-socket joint
(3) Fused joint
(4) Hinge joint

8. Coils of heating elements are made up of

(1) Nichrome
(2) Tungsten
(3) Brass
(4) Silver

9. Which of the following action will not make a magnet lose its magnetic properties?

(1) Hammer a magnet
(2) Drop a magnet from height
(3) Heat a magnet
(4) Pass electric current from a current

10. When two drops of copper sulphate solution and ten drops of caustic soda are added to a food containing protein, the colour changes to.

(1) Blue (2) Violet
(3) Red (4) Green

11. Rose plant is grown by

(1) Tubers (2) Plantlets
(3) Root cutting (4) Stem cutting

12. A screw gauge is a device which can provide measurement down to

(1) 1/10th of a centimetre
(2) 1/10th of a metre
(3) 1/100th of a metre
(4) 1/100th of a centimetre

13. A, B and C are three non-collinear points on a plane. Join A to B, B to C and C to A to form a ΔABC.

If length of side AB is equal to the length of side BC, then which two angles are equal?

(1) $\angle B = \angle C$ (2) $\angle A = \angle C$

(3) $\angle B = \angle A$ (4) $\angle A = \angle B = \angle C$

14. The product of largest three digit number and the smallest three digit number is

(1) 9900 (2) 99900

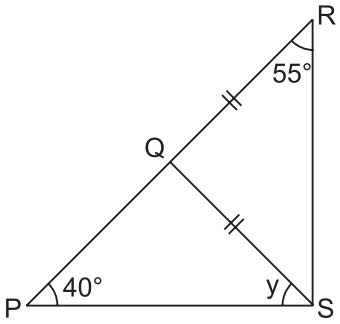
(3) 9090 (4) 1900

15. If 19, x, 29, 31, y, 41 and 43 are a list of prime numbers in ascending order, then the value of $x + y$ is

(1) 55 (2) 40

(3) 50 (4) 60

16. In the given figure, if QR = QS and $\angle R = 55°$, $\angle P = 40°$, then the value of y is



(1) 30° (2) 45°

(3) 50° (4) 35°

17. Number 343 is cube of

(1) 9 (2) 7

(3) 8 (4) 6

18. Meena divides a number by 2. She then divides the answer by 2. This is the same as dividing the original number by

(1) 1 (2) 2

(3) 4 (4) 8

19. What is the sum of first five prime numbers?

(1) 38 (2) 28

(3) 48 (4) 58

20. In isosceles triangle ΔFGH, FG < 3 cm and GH = 8 cm. Then the correct relation is

(1) GH = FH (2) GH < FH

(3) GF = GH (4) FH > GH

21. If one-third of one-fourth of a number is 15, then three-tenth of that number is:

(1) 35 (2) 45

(3) 50 (4) 54

22. Product of two co-prime numbers is 117. Their L.C.M should be

(1) 1

(2) 117

(3) Equal to their H.C.F

(4) 49

23. What least value should be replaced by * in 223*431 so the number become divisible by 9?

(1) 3 (2) 4

(3) 5 (4) 6

24. Polygon is said to be convex polygon if none of its interior angles is

(1) right angle (2) obtuse angle

(3) acute angle (4) reflex angle

25. The greatest number which always divides the product of the predecessor and successor of an odd natural number other than 1, is

(1) 6 (2) 4

(3) 16 (4) 8

END OF THE EXAM