



Question Paper

MAINS ALOHA GAT 2016-17

Class: 8th

Max Marks: 200

Total Number of Printed Pages: 6

Total No. of Questions: 14

Time Allowed: 2 hr 50 min

SECTION 1-SCIENCE

LONG ANSWER TYPE

1. What are antibiotics? What precautions must be taken while taking antibiotics?

OR

Explain with the help of a simple experiment that material medium is necessary for the propagation of sound.

2. What is Reflection of light. State & explain laws of reflection of light.

OR

Define asexual reproduction. Describe any two methods of asexual reproduction in animals.

[10 x2 = 20 marks]

3. SHORT ANSWER TYPE (Do any three)

- i. Why are mitochondria known as the 'Power house of the cell'.
- ii. What happens when dilute Sulphuric acid is poured on a copper plate? Write a word equation of the reaction involved.

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- iii. Which zone of a flame does a Goldsmith use for melting gold and silver, and why?
- iv. A Black smith hammer a hot piece of iron while making a tool. How does the force due to hammering affect the piece of iron?
- v. Make a sketch of the human nerve cell. What function do nerve cells perform?

[6 x3 = 18 marks]

4. VERY SHORT ANSWER TYPE

- (i) State the function of Chromosomes.
- (ii) What is metamorphosis?
- (iii) Night birds have _____ cones than rods in their eyes.
- (iv) Explain why sodium & potassium are stored in kerosene.
- (v) Which part of the cell contains organelles?
- (vi) The process of conversion of sugar into alcohol is called _____.
- (vii) A pendulum oscillates 40 times in 4 seconds. Find its frequency.
- (viii) Metals react with acids to produce _____ gas.
- (ix) Name the microorganism which can fix atmospheric nitrogen in the soil.
- (x) Fuel must be heated to its _____ before it starts burning.
- (xi) Name the unit in which the Calorific value of a fuel is expressed.

[2x11 = 22 marks]

SECTION 2a-SOCIAL STUDIES

LONG ANSWER TYPE

5. Identify the factors responsible for chaos, confusion and uncertainty in Kashmir during the Afghan Period?

or

The names of different textiles tell us about their histories. How?

6. What is shifting cultivation? What are its advantages?

or

Mention the composition and functions of the Security Council?

[10x2 = 20 marks]

7. SHORT ANSWER TYPE (Do any three)

- i. How did the powers of tribal chiefs change under colonial rule?
- ii. When and why was the United Nations founded?
- iii. Why are Human Rights essential?
- iv. Distinguish between Agro based and Mineral based industry?
- v. What happened to the Pathshalas as the British introduced a new system of education?

[6 x3 = 18 marks]

SECTION 2b-CURRENT AFFAIRS

8. Write a short note on the following: (any two)

- a) Lynching in India
- b) Various steps taken by the government to save Dal
- c) Recent Indo-China Border Conflicts
- d) Kashmiriyat

[5 x 2 = 10 marks]

9. MCQ/Objective Type Questions:

- i. Who has been appointed as the interim Prime Minister of Pakistan after the supreme court disqualified Nawaz Sharif ?
 - a) Shahid Khaqan Abbasi
 - b) Imran Khan
 - c) Shehbaz Sharif
 - d) Altaf Hussain
- ii. What is the length of Asia's longest bi directional road tunnel "Chennai-Nashri tunnel"?
 - a) 6.38 km
 - b) 8.76 km
 - c) 9.28 km
 - d) 7.26 km
- iii. Sachin Tendulkar launched his own Social media app called?
 - a) 100 MB cricket
 - b) Beach cricket
 - c) Stick cricket
 - d) Freehit cricket
- iv. Which country became the world's largest producer of solar energy?
 - a) Thailand
 - b) China
 - c) Japan
 - d) India
- v. India launched (SAS) South Asia Satellite on:
 - a) 4th May 2017
 - b) 5th May 2017
 - c) 5th May 2016
 - d) 6th May 2017

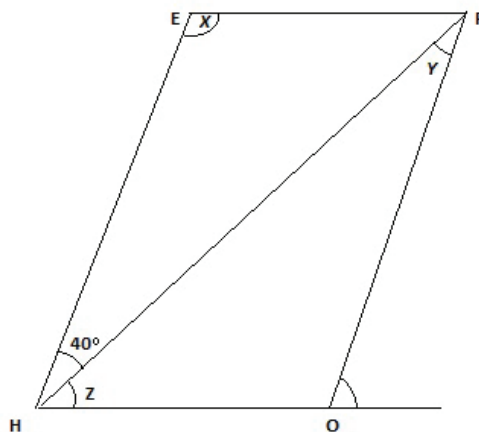
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- vi. Where was the Asian Youth and Junior Weightlifting Championship held in July 2017?
a) New Delhi b) Beijing c) Kathmandu d) Dhaka
- vii. Which country recently conducted a new Intercontinental Ballistic Missile Test (ICBM) with a range of 10000 km ?
a) North Korea b) Japan c) USA d) France
- viii. Who is the Finance Minister of India ?
- ix. Who became the President of India after Pranab Mukherjee completed his term?
- x. Major Gogoi was awarded Chief of Army Staff's Commendation Card and was widely criticized for the act _____
- xi. Who Inaugurated the India's largest road bridge?
- xii. He is the president of a Muslim country and was recently in news regarding the third party role in resolving the Kashmir Issue. He is _____.

[12 x 1 = 12 marks]

SECTION 3-MATHEMATICS

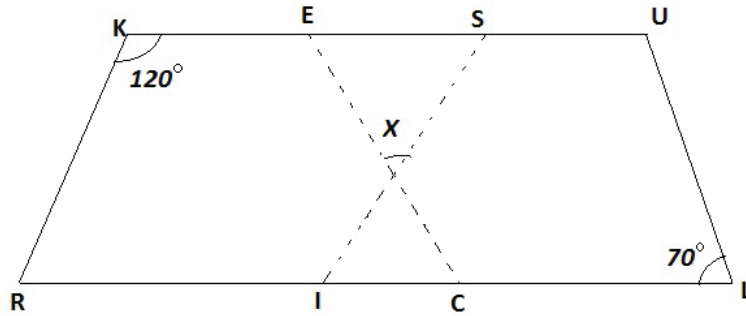
10. The given figure HOPE is a parallelogram. Find the angle measures x , y and z . State the properties you use to find them.



OR

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In the below figure both RISK and CLUE are parallelogram. Find the Value of X.



11. Half of a herd of deer are grazing in the field and three fourths of the remaining are playing nearby. The rest 9 are drinking water from the pond. Find the number of deer in the herd.

OR

A man got 10% increase in his Salary. If the new salary is Rs. 1,54,000/-. Find his original salary.

[10 x 2 = 20 marks]

12. Attempt any three questions:

- a. Represent these numbers on the number line .

(i) $\frac{7}{4}$ (ii) $\frac{-5}{6}$

- b. In a right triangle ABC, $\angle B = 90^\circ$, If AC = 13 cm, BC = 5cm, find AB.

- c. Using Identities, evaluate.

(i) 1.05×9.5

(ii) 8.9^2

- d. Find five rational numbers between.

(i) $\frac{2}{3}$ and $\frac{4}{5}$ (ii) $\frac{-3}{2}$ and $\frac{5}{3}$

- e. Solve the following equation and check your result.

$$8x + 4 = 3(x-1) + 7$$

[6 x 3 = 18 marks]

13. Multiple Choice Questions

- (i) The following integer has no reciprocals

(a) 1 (b) -1 (c) 0 (d) 100

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- (ii) A quadrilateral with exactly two pairs of equal consecutive sides
(a) Parallelogram (b) Rhombus (c) Square (d) Kite
- (iii) The cube of 0.08 is
(a) 0.02 (b) 0.04 (c) 0.000512 (d) 0.0008
- (iv) The solution for the equation $3x-3 = 9$
(a) 6 (b) 5 (c) 4 (d) 3
- (v) The base of a parallelogram is 6cm and the corresponding altitude is 4cm. What will be its area?
(a) $3/2 \text{ cm}^2$ (b) 36cm^2 (c) 84cm^2 (d) 24cm^2
- (vi) How many sides a regular polygon, whose each angle is 108° , has
(a) 5 (b) 4 (c) 8 (d) 7
- (vii) The missing number in $5^2 + \text{---}^2 + 30^2 = 31^2$ is;
(a) 6 (b) 8 (c) 10 (d) 12
- (viii) The sum of the exterior angles of a triangle is
(a) 90° (b) 120° (c) 360° (d) 540°
- (ix) The smallest Hardy - Ramanujan Number is
(a) 1729 (b) 4104 (c) 729 (d) 625
- (x) The square root of 729 is
(a) 26 (b) 24 (c) 25 (d) 27
- (xi) Which among the given numbers are perfect squares;
11, 12, 16, 32, 36
(a) 11, 16 (b) 16, 36 (c) 12, 32 (d) 16, 32

[2 x 11 = 22 marks]

SECTION 4-GENERAL ESSAY

14. Write an essay on any one of the following (200-250 words)

1. Muhammad (SAW) in the lap of Haleema
2. Muhammad (SAW), A Mercy to the Universe.
3. The Perseverance of Thomas Elva Edison
4. Vision 2020 and APJ Abdul Kalam

[20 marks]

