ENTRANCE EXAM **CLASS- IX** [redacted]

Time: 2.5 Hrs **MM: 100**

Instructions:

1. *All questions are compulsory.*
2. *All questions must be answered in the question booklet itself in the space provided for this purpose.*
3. *All sub-questions under the main question carry equal marks.*
4. *Rough work, if required, may be done on the last few pages of this question booklet, provided for the purpose.*
5. *The candidate should not write their name, roll number or any other mark of identification anywhere on the question-cum-answer booklet (except for the space provided on the top sheet). Violation of this rule will lead to cancellation of the candidature.*

Part-A (English) **35 Marks**

1.	**Read the unseen passage below and answer the questions that follow in your own words: (10)**
In response to the increasing environmental damage wrought by poachers, authorities placed a ban on ivory in the 1980s. Although the ban resulted in an initial decrease in the sale and trade of illegal ivory and a concurrent increase in the elephant population, more pressing needs caused most Western nations to withdraw funding for poaching prevention programs. Without significant financial support, poorer countries were unable to effectively combat poachers. The resulting explosion in the ivory trade has seen prices increase to nearly 10 times the $45 per pound price at the beginning of the decade.	

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Unfortunately, the countries with the worst poaching problems have also tended to be the ones least able to combat the problem due to unstable political systems, corruption, lack of comprehensive enforcement programs, or some combination of all these factors. One primary hindrance to better enforcement of the ivory ban came from an inability to definitively identify the country of origin of illegal ivory. Countries used this uncertainty to avoid responsibility for curbing illegal poaching in their territories by attempting to blame other countries for the oversights in enforcement.

Now, though, zoologists have perfected a new DNA identification system. First, scientists gathered genetic data from the population of African elephants, an arduous effort that ultimately resulted in a detailed DNA-based map of the distribution of African elephants. Then, the researchers developed a method to extract DNA evidence from ivory, allowing them to match the ivory with elephant populations on the map. Zoologists hope this new method will pinpoint the exact origin of poached ivory and force countries to accept their responsibility in enforcing the ban.

a) What is the author's main concern expressed in the passage?

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b) The passage suggests which of the following about the DNA-based map created by zoologists? (Tick-mark the correct option)

(a) Its assemblage involved a great deal of work on the part of the researchers.

(b) Its creation will force countries to accept responsibility internationally for the ivory poached from within their borders.

(c) The map is able to pinpoint the exact elephant from which poached ivory was obtained.

(d) It must be updated constantly to account for changes in elephant populations.

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c) According to the author, what are the reasons that the countries with the worst poaching problems have failed to combat the problem?

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d) Identify the word in first paragraph which comes closest in meaning to the following words:

Fight: _____ Shaped: _____

Noteworthy: _____ Hunter: _____

e) How will the new DNA identification system help zoologists in combating poaching?

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2.	**Write an Essay on the topic 'Liberty is not Anarchy' (200 words)** **OR** **As a member of Literary Club, write a report on a recently organized Plantation Drive in your school.** **(200 words)**	**(10)**

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Question No.	Question	Space for Answer
3.	**Fill in the blanks with proper articles/conjunctions/propositions: (10)**	
Passenger airplanes mostly fly (a) _____ speeds less than that (b) _____ sound. Airplanes (c) _____ can fly (d) _____ greater speeds have been built. This is (e) _____ if they fly (f) _____ speeds greater (g) _____ the speed of sound, (h) _____ fuel consumption increases enormously. Commercial aircraft today cruise (i) _____ altitudes of 30,000 feet and (j) _____.		(a) (b) (c) (d) (e) (f) (g) (h) (i) (j)
4.	**Change the voice of the following sentences: (2)**	
a)	Someone has stolen my purse.	
b)	We are taught by him.	
5.	**Change the speech (direct-indirect) of the following sentences: (3)**	
a)	Satish said to me, "I am very happy here."	
b)	The student told the teacher that he was sorry that he was late.	
c)	I said to him, "Please bring me a glass of water."	

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Part-B (Maths) 30 Marks

Question No.	Question	Space for Answer
1.	**Find the answer to the following: (5)**	
a)	What is the additive inverse of -4?	
b)	An item marked at Rs. 840 is sold for Rs. 714. What is the discount %?	
c)	Evaluate $\sqrt{4356}$	
d)	Find the number of sides of a regular polygon whose each exterior angle is 45^o	
e)	Expand $(3x - 2y)^2$	
2.	**Fill in the blanks: (5)**	
a)	The two quadrilaterals whose diagonals are perpendicular bisectors of each other are _____ and _____.	
b)	The Euler's formula defining relation between numbers of faces, vertices and edges of a polyhedron can be represented as _____.	
c)	If each edge of a cube is doubled, its surface area will increase _____ times.	
d)	_____ (number) is an example of Hardy-Ramanujan number.	
e)	A rectangle is a _____ with equal angles.	
3.	**Answer the following: (10)**	
a)	Two numbers are in the ratio 5:8. If the sum of the numbers is 182, find the numbers?	

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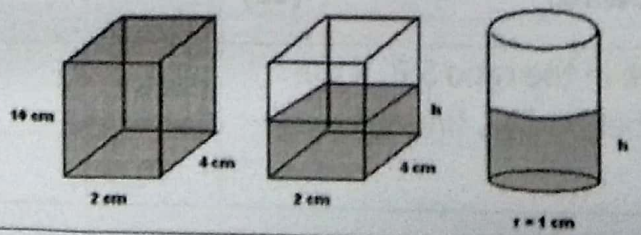
Question No.	Question	Space for Answer
b)	A rectangular piece of paper 22 cm × 6 cm is folded without overlapping to make a cylinder of height 6 cm. Find the volume of the cylinder?	
c)	Raman's age is three times his son's age. Ten years ago, he was five times his son's age. Find their present ages.	
d)	Students of Class IX of Oak Grove School donated Rs. 1296 in total to Prime Minister's Relief Fund. If each student donated as many rupees as the number of students in the class, find the contribution by each student.	
4.	**Find the answer to the following real life problems: (10)**	
a)	A picnic is being planned for a class in which girls constituting 60% are 18 in number. The picnic site is 55 km from the school and the transport company is charging Rs. 12 per km. The total cost of refreshment is Rs. 4280. Find out: i) The per head cost if two teachers are also going with the class. ii) If the first stop is at 22 km from the school, what percent of distance is left to be covered.	
b)	Initially the rectangular prism on the left was full of water. Then water was poured in the right cylindrical container so that the heights of water in both containers are equal. Find the height h of water in both containers. (Round your answer to the nearest tenth of a cm).  	

Part-C (Social Science) **20 Marks**

Question No.	Question	Space for Answer
1.	**Fill in the blanks:** **(5)**	
a)	The Lok Sabha is usually elected once every _____ years.	
b)	The transformation of the larva into an adult through drastic changes is called _____.	
c)	Some _____ present in the soil fix nitrogen from the atmosphere and convert into nitrogenous compounds.	
d)	Ursa Major or the Great Bear is a constellation of stars, also known as _____ on its association with seven ancient Indian sages.	
e)	In 1856, Governor General _____ decided that Bahadur Shah Zafar would be the last Mughal king.	
2.	**State TRUE or FALSE:** **(5)**	
a)	A committee headed by Justice Rajindar Sachar was set-up in 2005 to examine the social, economic and educational status of the Muslim community in India.	
b)	The amplitude determines the shrillness or pitch of a sound.	
c)	Petroleum and its derivatives are called Black Gold as they are very valuable.	
d)	The Bhilai Steel Plant was set up with the help of United States of America in 1959.	
e)	The Khurda uprising had taken place much before the Revolt of 1857.	

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3.	**Answer the following questions: (10)** **(Each question carries 5 marks. Attempt ANY TWO. Maximum 200 words)**	
a)	Discuss few changes that take place at puberty in human beings.	

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b)	Briefly discuss the factors affecting the distribution of population.

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c)	Briefly discuss the Structure of Courts in India.

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Part-D (General Knowledge) **15 Marks**

Question No.	Question	Space for Answer
1.	**Fill in the blanks:** (5)	
a)	The time span of one thousand years is known as _____.	
b)	The Dewey Decimal system is used to categorize _____.	

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Question No.	Question	Space for Answer
c)	_____ wrote a series of novels about orcs, hobbits, goblins, and elves.	
d)	Veer Guardian 2023 Exercise is a maiden bilateral air exercise set to be held between India and _____.	
e)	The red earthenware pottery, which remains porous when unglazed is _____.	
2.	**State TRUE or FALSE:** **(5)**	
a)	Methyl isocyanate was the poisonous gas which caused deaths and health hazards in Bhopal Gas Tragedy in December, 1984.	
b)	A person who studies rocks is known as a petrologist.	
c)	If you have arachnophobia, you are afraid of snakes.	
d)	A human heart consists of four chambers.	
e)	Argentina, the current Fifa champion had won the title twice before.	
3.	**Answer the following questions:** **(5)**	
a)	Who has received the Sahitya Academy 2022 award for his novel 'Kala Pani'?	
b)	What is the name of the first indigenously designed and built aircraft carrier commissioned at Cochin Shipyard Limited in September 2022?	
c)	Who is the current Union Minister of External Affairs?	
d)	The Indian national blind cricket team won the T20 World Cup 2022 for Blind by defeating which country?	
e)	Which Indian movie's popular song Naatu Naatu song got shortlisted for Oscars 2023 Academy Award?	

End of Question Paper

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SPACE FOR ROUGH WORK

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