



Affiliated to CBSE

**HARYANA  
PUBLIC SCHOOL**

Affiliation No. 553649

संस्कार से सफलता तक

विद्यया ददाति विनियम



**THE  
VENKATESHWAR  
SCHOOL**  
GURUGRAM

AN ISO 9001 : 2015 Certified

# 1ST ALL INDIA BRAIN LEAGUE EXAM 2026

**Class - VI**

**Time: 60 Minutes**

**M.M =45**

## General Instructions:

1. The duration of the examination is 60 minutes. Question paper contains 45 questions with maximum 60 marks
2. There will be negative marking in Phase - II, i.e.  $\frac{1}{4}$  mark will be deducted for each incorrect answer.
3. Use of gadgets is not allowed.
4. Students must abide by the instructions issued during the examination by the invigilator or the centre incharge.
5. Before attempting the question paper ensure that it contains all pages & no question is missing
6. Immediately fill the particulars on this page of the test booklet and OMR with BLACK ballpoint pen only. Use of pencil is strictly prohibited.
7. Fill and darken the bubbles completely. Do not put a tick or a cross.
8. Half-filled or over-filled bubbles will not be read by the software & liable to be rejected.

Correct Method



Wrong Method



Student's Signature

Invigilators's Signature

**SPECIAL CLASSES FOR-** IIT-JEE, NEET, CS ENTRANCE EXAM, CA FOUNDATION, NDA, CLAT & OLYMPIADS

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## ENGLISH

- Q1. This is a college for women.  
(Possessive Case)  
A. This is a women's college.  
B. This is a womens college.  
C. This is a woman's college  
D. This is a womens' college.
- Q2. You **yourself** spoke about the problem. Tell the type of the pronoun written in bold letters.  
A. Reflexive Pronoun  
B. Emphatic Pronoun  
C. Possessive Pronoun  
D. Relative Pronoun
- Q3. Tick the Indirect Object in the given sentence.  
The boy gave her some money  
A. seat                      B. her  
C. money                  D. beggar.
- Q4. The coconut tree any other tree.  
A. As much uses as  
B. more useful than  
C. the most uses of  
D. None
- Q5. Delhi has fast into an important industrious city.  
A. groan                  B. grew  
C. grown                  D. growing
- Q6. I go to my dance class on days.  
A. alternative          B. everyday  
C. alternate              D. None.
- Q 7. Do it at once. (Reported Speech)  
A. Done once

- B. Did once  
C. Let it be done at once  
D. Done at once.

- Q8. I for you morning  
A. Had been waiting ,since  
B. had waited ,since  
C. Had been waiting, for  
D. wait, since

## PHYSICS

- Q9. Which of the following converts chemical energy into electrical energy?  
A. Switch                  B. Dry cell  
C. Electric iron          D. Bulb
- Q10. Why is mercury preferred over water in thermometers?  
A. Mercury expands faster than water  
B. Mercury is liquid at room temperature  
C. Mercury has a uniform expansion and does not stick to glass  
D. Mercury can measure only high temperatures
- Q11. A boy walks 10 m east, then 10 m west, and finally 5 m east. What is his total distance travelled and displacement?  
A. Distance = 5 m,  
Displacement = 5 m  
B. Distance = 25 m,  
Displacement = 5 m  
C. Distance = 15 m,  
Displacement = 15 m  
D. Distance = 25 m,  
Displacement = 15 m

Q12. In a simple circuit, if the bulb does not glow, which of the following cannot be the reason?

- A. The bulb is fused
- B. The switch is open
- C. The battery is weak
- D. The wires are made of copper

Q13. When a switch is in the 'open' position, what happens in the circuit?

- A. The circuit is complete, and current flows.
- B. The bulb glows brightly.
- C. There is an air gap, breaking the circuit and stopping current flow.
- D. The battery gets recharged.

### CHEMISTRY

Q14. Which method would be most appropriate to separate a mixture of iron filings, sand, and common salt?

- A. Magnetic separation → Handpicking → filtration → evaporation
- B. Magnetic separation → dissolution → filtration → evaporation
- C. Sieving → sedimentation → decantation
- D. Winnowing → evaporation

Q15. Which of the following mixtures cannot be separated by using a filter paper?

- A. Sand and water
- B. Chalk powder and water
- C. Copper sulphate and water
- D. Tea leaves and tea

Q16. Which property of a substance is mainly used in the process of evaporation?

- A. Solubility
- B. Density
- C. Volatility
- D. Size of particles

Q17. Which of the following has a metallic lustre?

- A. All materials that have recently cut surfaces
- B. Metals with a newly cut surface
- C. Metals with any type of surface
- D. All materials, regardless of surface

Q18. Which of the following pairs of materials shows opposite properties?

- A. Glass and plastic
- B. Iron and sponge
- C. Rubber and jelly
- D. Wood and stone

### BIOLOGY

Q19. A student eats rice, dal, vegetables, and a small amount of oil. Which nutrient is mainly responsible for repairing body tissues in this meal?

- A. Carbohydrates
- B. Fats
- C. Proteins
- D. Vitamins

Q20. Which of the following will give a blue-black colour when tested with iodine solution?

- A. Milk
- B. Egg white
- C. Potato
- D. Butter

- Q21. Which deficiency disease is correctly matched with its cause?
- A. Night blindness – lack of Vitamin C
  - B. Beriberi – lack of Vitamin B1
  - C. Rickets – lack of Iron
  - D. Scurvy – lack of Vitamin D

- Q22. Which of the following is NOT a characteristic of living organisms?
- A. Growth
  - B. Respiration
  - C. Movement from place-to-place
  - D. Reproduction

- Q23. A person needs maximum amount of calories in the age group of
- A. 8 to 12 years.
  - B. 25 to 30 years.
  - C. 45 to 50 years.
  - D. 65 to 70 years

### MATHEMATICS

- Q24. An angle is  $14^\circ$  more than its complementary angle, then the angle is:
- A.  $38^\circ$
  - B.  $14^\circ$
  - C.  $50^\circ$
  - D.  $52^\circ$

- Q25. A, B, C and D are four collinear points. If  $AB > CD$ , which of the following must be true?
- I.  $AB > BC$
  - II.  $AC > BD$
  - III.  $AC > CD$
- A. II Only
  - B. I Only
  - C. II & III Only
  - D. III Only

- Q26. The ratio of the area of a square to that of the square drawn on its diagonals is:
- A. 1:1
  - B. 1:2
  - C. 1:3
  - D. 1:4

- Q27. The length of the side of a grassy square plot is 80 m. Two walking paths each 4m wide are constructed parallel to the sides of the plot such that they cut each other at the centre of the plot. Determine the area of the paths.
- A.  $624 \text{ m}^2$
  - B.  $1200 \text{ m}^2$
  - C.  $1360 \text{ m}^2$
  - D.  $642 \text{ m}^2$

- Q28. The mean of a set of observations is 'a'. If each observation is multiplied by 'b' and each product is decreased by 'c', then the mean of new set of observation is:
- A.  $\frac{a}{b} + c$
  - B.  $ab - c$
  - C.  $\frac{a}{b} - c$
  - D.  $ab + c$

- Q29. In an exhibition hall, there are 24 display boards each of length 1m 50cm and breadth 1m. There is a 100m long aluminium strip, which is used to frame these boards. How many boards will be framed using these strips? Also, find the length of the aluminium strip required for the remaining boards?
- A. 20, 10
  - B. 10, 20
  - C. 20, 20
  - D. 10, 10



Q30. A road 6 m wide is built all around inside a square garden of side 186m. What is the area of the remaining part of the Garder.

- A.  $22640\text{m}^2$
- B.  $30276\text{m}^2$
- C.  $24620\text{m}^2$
- D.  $26480\text{m}^2$

Q31. The five digit number  $\square\square\square\square\square$  is divisible by 4, 5 and 9. What is the sum of digits  $\square$  and  $\square$ ?

- A. 10
- B. 5
- C. 9
- D. 4

Q32. If  $\square$  and  $\square$  are two natural numbers such that their GCD is same as their LCM. Then which of the following is necessarily true?

- A.  $\square = \square = 1$
- B.  $\square < \square$
- C. a divides b but  $a \neq b$
- D.  $\square > \square$

Q33. The LCM of two numbers is 12 times their HCF. The sum of LCM and HCF is 403. If one of the number is 93, then what is the other number?

- A. 124
- B. 128
- C. 134
- D. 138

**Directions (Q34 & Q35):** Mr. Sharma wants to create a sustainable garden by planting nature flowering plants in a specific pattern. He planted 1 plant on day 1, 3 on day 2, 6 on day 3 and so on.

Q34. Find the total number of plants planted in the first 4 days?

- A. 9
- B. 15
- C. 16
- D. 20

Q35. If Mr. Sharma continues to plant in the above pattern, then on which day he will plant 55 plants?

- A. Day 9
- B. Day 8
- C. Day 10
- D. Day 11

Q36. Find the error in the given palindrome sum

$$\begin{array}{r} 649 \\ + 946 \\ \hline 1595 \\ + 5951 \\ \hline 7456 \\ + 6547 \\ \hline 14003 \\ + 30041 \\ \hline 44044 \end{array} \quad \begin{array}{l} \text{---1} \\ \text{---2} \\ \text{---3} \\ \text{---4} \end{array}$$

- A. In step 1
- B. In step 2
- C. In step 3
- D. In step 4

Q37. I am a 5 - digit number. I have only digits 4, 5, 8. I am the smallest palindromes form using the given three digits:

- A. 48584
- B. 45854
- C. 44844
- D. 40508

Q38. If the sides of a square 'x' are two times those of square 'y' then the area of square 'x' would be

- A. the same as that of square y

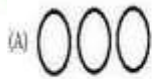
- B. two times that of square y
- C. three times that of square y
- D. four times that of square y

### APTITUDE

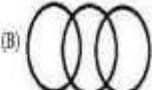
- Q39. The post office is to the east of the school while my house is to the south of the school. The market is to the north of the post office. If the distance of the market from the post office is equal to the distance of my house from the school. In which direction is the market with respect to my school?
- A. North
  - B. East
  - C. North- East
  - D. South-West
- Q40. Manish goes 7 km towards South-East from his house then he goes 14km turning to the west. After this he goes 7 km towards North West and in the end he goes 9 km towards East. How far is he from his house?
- A. 14 km
  - B. 7 km
  - C. 2 km
  - D. 5 km
- Q41. In a family of six persons, A, B, C, D, E, and F. C is the father of B. A is the mother of F. D is the son of B. E is the mother-in-law of B's wife. F is the sister of D. How is C related to E?
- A. Father
  - B. Mother

- C. Husband
- D. Wife

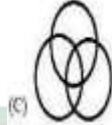
- Q42. How many leap years were there between 1942 and 2010?
- A. 17
  - B. 20
  - C. 19
  - D. 18
- Q43. If "Patriot" is coded as (74 - 25) and "Soldier" is coded as (53 - 29), then how can "Chinese" be coded in the same code language?
- A. (42 - 20)
  - B. (45 - 10)
  - C. (44 - 19)
  - D. (45 - 20)
- Q44. Identify the diagram that best represents the relationship among the given classes.  
Cats, Pets & Dogs
- (A)



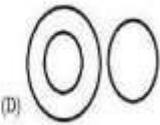
(B)



(C)



(D)


- Q45. Select the number from the given options that can replace the question mark (?) in the following series.  
500, 379, 330, 305, ?, 292
- A. 298
  - B. 295
  - C. 296
  - D. 299

**ANSWER KEY- (Class 6<sup>th</sup>)**

**ENGLISH**

1. A
2. B
3. B
4. B
5. C
6. C
7. C
8. A

**PHYSICS**

9. B
10. C
11. B
12. D
13. C.

**CHEMISTRY**

14. B.
15. C.
16. C.
17. B
18. B.

**BIOLOGY**

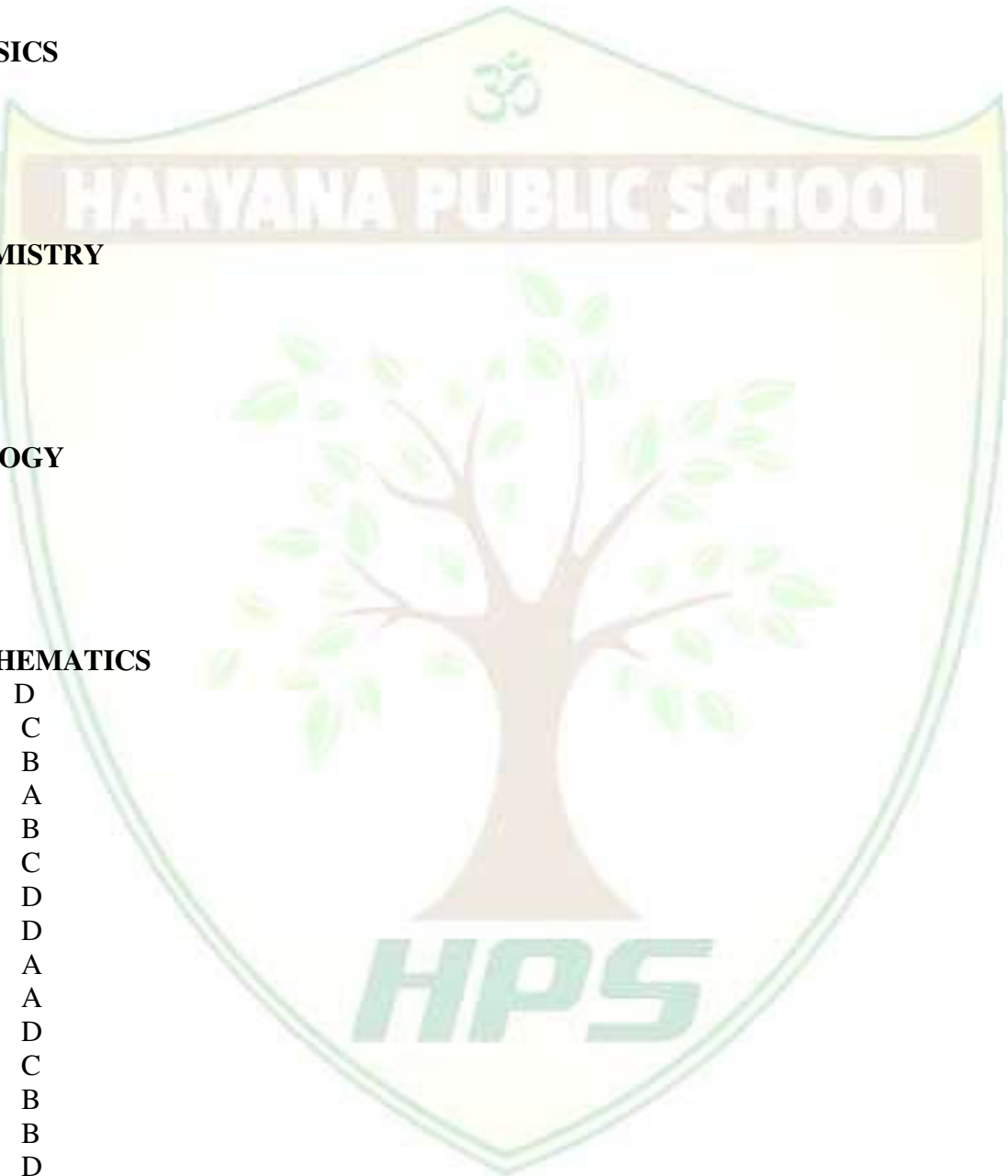
19. C
20. C
21. B
22. C
23. B

**MATHEMATICS**

24. D
25. C
26. B
27. A
28. B
29. C
30. D
31. D
32. A
33. A
34. D
35. C
36. B
37. B
38. D

**APTITUDE**

39. C
40. D
41. C
42. A
43. C
44. D
45. C



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