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## Student's Reference Sample Paper & Syllabus



### Syllabus

- ✓ Syllabus is based on integrated T.S. & A.P. State Boards
- ✓ Competence and knowledge in Mathematics & Science is assessed yearly at the State Level Olympiad.
- ✓ 75% of total syllabus (syllabus covered till 30th November as per Government schedule) from the respective state board is considered for this olympiad.

### Exam pattern

Class	No. of Questions	Total Marks	Duration (min.)
Class - 6	100	100	90

#### For Class 6

Mathematics : 50  
Science : 50

## Mathematics

1. Smallest natural number is [ ]

- (A) -1 (B) 1 (C) 0 (D) 2

2. Study the pattern

$$1 \times 8 + 1 = 9; \quad 12 \times 8 + 2 = 98$$

What would be the next step? [ ]

- (A)  $123 \times 8 + 3 = 987$  (B)  $1234 \times 8 + 4 = 9876$   
(C)  $120 \times 8 + 3 = 963$  (D)  $13 \times 8 + 3 = 987$

3. Fill in the blanks to make the statement true. [ ]

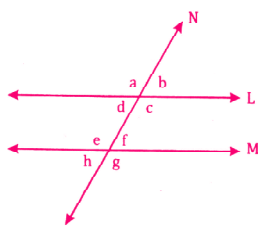
$$6245 + (631 + 751) = 631 + \dots + 751$$

- (A) 6245 (B) 751 (C) 200 (D) 231

4. The product of the place values of two 2's in 428721 is [ ]

- (A) 4 (B) 40000 (C) 400000 (D) 40000000

5. In the adjoining figure line L || line M and line N is the transversal. Which of the following line is one of the pairs of alternative angles? [ ]



- (A)  $\angle a$  &  $\angle e$  (B)  $\angle d$  &  $\angle f$   
(C)  $\angle b$  &  $\angle f$  (D)  $\angle d$  &  $\angle e$

6. Statement A : Sum of two negative integers is always negative.

Statement B : Sum of positive and negative integer will never be zero. [ ]

- (A) Statement A is true  
(B) Statement B is true  
(C) Both statements are true  
(D) Both statements are false

7. What is the common end point of the two rays of an angle called? [ ]

- (A) Vertex (B) Initial point  
(C) End point (D) Final point

8. What is the additive inverse of -6? [ ]

- (A)  $\frac{1}{6}$  (B) -6 (C) 6 (D) 1

9. The number which is neither prime nor composite is [ ]

- (A) 0 (B) 1 (C) 2 (D) 5

10. For 500, which symbol is used in Roman system? [ ]

- (A) L (B) C (C) M (D) D

#### Key for 6th Mathematics

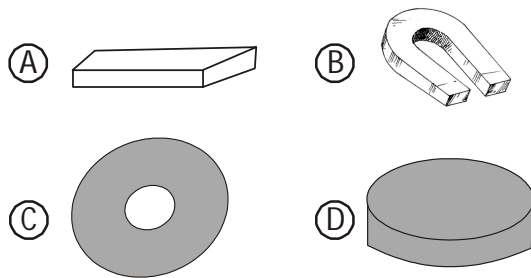
1	2	3	4	5	6	7	8	9	10
B	A	A	C	B	A	A	C	B	D

1. Give an example for a stem vegetable? [ ]

- (a) *Potato*                      (b) *Sweet potato*  
 (c) *Ginger*                        (d) *Garlic*

- (A) Only (a)                      (B) Only (b)  
 (C) Only (d)                      (D) Both (a & c)

2. Identify Horse shoe magnet from the following [ ]



3. The conversion of water into water vapour by     P    , Water vapour to     Q     and clouds to rain by     R     is known as water cycle. [ ]

- (A) P – Condensation, Q – evaporation, R – Cloud  
 (B) P – Cloud, Q – Evaporation, R – Condensation  
 (C) P – Evaporation, Q – Cloud, R – Condensation  
 (D) P – Condensation, Q – Cloud, R – Evaporation

4. [ ]

A	B
(a) Vultures	1. Sniffing
(b) Dogs	2. Hearing
(c) Bats	3. Vision
(d) Some reptiles	4. Taste

- (A) a3, b1, c2, d4    (B) a1, b3, c1, d4  
 (C) a2, b3, c4, d1    (D) a4, b3, c2, d1

5. How do grazing animals eat their food? [ ]

- (A) Chewing                      (B) Gnawing  
 (C) Sucking                        (D) Licking

6. Water is [ ]

- (A) less dense than ice  
 (B) more dense than ice  
 (C) no relation with ice as per density  
 (D) Both have equal densities

7. Dividing materials into groups is according to \_\_\_\_\_ [ ]

- (A) Our convenience  
 (B) Their properties (similarities and differences)  
 (C) Shapes                      (D) Both (A & B)

8. Sarika wants to make lemon juice. She added sugar and lemon juice in a glass of water. Which of the following is the solute? [ ]

- (A) Lemon                      (B) sugar  
 (C) water                        (D) both (A) & (B)

9. The lines on the leaf are called [ ]

- (A) arteries                      (B) veins  
 (C) venation                      (D) venules

10. Why does cold milk not change to curd [ ]

- (A) because it is not held tight  
 (B) because bacteria needs warmth to convert milk to curd  
 (C) because there is no bacteria in cold milk  
 (D) because milk is not necessary to make curd

Key for 6th General Science

1	2	3	4	5	6	7	8	9	10
D	B	A	C	A	A	B	B	B	B