



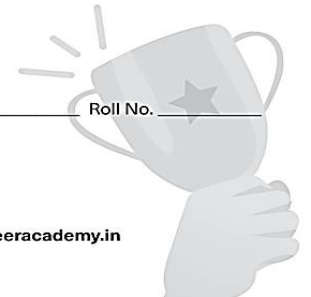
## TALENT SEARCH EXAM

### INSTRUCTIONS

1. Immediately fill in the particulars on this page of the Test Booklet with Blue/Black Ball Point Pen. Use of pencil is strictly prohibited.
2. Test duration is ONE HOUR (60MINUTES)
3. The Test Booklet consists of 40 questions of 4 marks each. The maximum marks are 160.
4. There are four sections in the question paper.  
The distribution of question, subject wise in each part is mentioned below.

SCIENCE	- 10 Questions
SOCIAL SCIENCE	- 10 Questions
MATHEMATICS	- 10 Questions
MENTAL ABILITY	- 10 Questions
5. Candidates will be awarded Four marks (+4) each for indicated correct response of each Question & One mark (-1) deduct for indicated incorrect response. No deduction from the total score will be made if no response is indicated.
6. No candidate is allowed to carry any textual material, printed or written, bits of papers, mobile phone, any electronic device etc.
7. After the completion of the test, the candidate must hand over the Answer Sheet to the Invigilator on duty in the Room/Hall. However, the candidates are allowed to take away this Test Booklet with them.
8. Do not fold or make any stray marks on the Answer sheet.

Name : \_\_\_\_\_ Class : \_\_\_\_\_ Roll No. \_\_\_\_\_



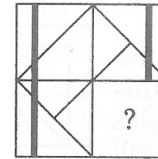
## SCIENCE

- To stretch the bow, the archer applies a force that causes a change in its
  - Shape
  - Size
  - Area
  - None of these
- While the arrow moves towards its target the force acting on it are due to
  - Gravity
  - Muscular force
  - Magnetic force
  - None of these
- Four children were asked to arrange forces due to rolling, static and sliding friction in a decreasing order. Their arrangement are given below choose the correct arrangement.
  - Rolling, static, Sliding
  - Rolling, sliding, static
  - Static, Sliding, rolling**
  - Sliding, static, rolling

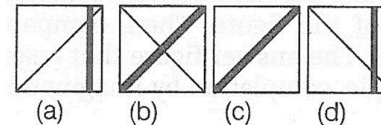
- Ignition temperature is
  - lowest temperature at catch fire**
  - Highest temperature at catch fire
  - Any temperature
  - None
- Distilled water is
  - Poor conductor**
  - Good conductor
  - Both a and b
  - None of these
- Metal oxide is of nature
  - Acidic
  - Basic**
  - Neutral
  - None of these
- The power house of the cell is called
  - Nucleus
  - Plastids
  - Mitochondria**
  - Cell wall.
- Chloroplast is found in:
  - Plant cell only**
  - Animal cell only
  - Both of these
  - None of these.

- In this question, problem figure is given on the left side of the line, which is incomplete. One, out of the four answer figures (a), (b), (c) and (d) can complete the same. You have to locate the answer which if inserted in the problem figure without changing the direction completes the same.

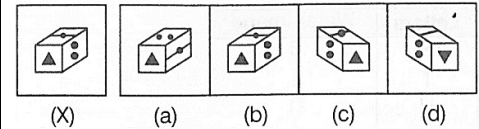
Problem figure



Answer figure

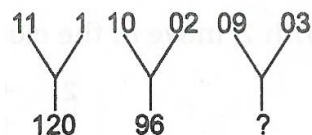


- Ans. (a)**
- Choose the correct mirror image of the figure (X) form amongst the four alternatives (a), (b), (c) and (D) given along with it.



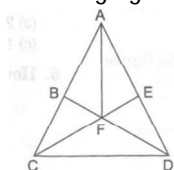
**Ans. (c)**

34. Insert the missing letter or numerical value in the given question



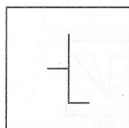
- (a) 81  
**(b) 72**  
 (c) 90  
 (d) 27
35. Mita is taller than Rita but not as tall as Soni. Rita is taller than Sarita. Soni is not as tall as Rupa. Who among them is the tallest?  
 (a) Mita  
**(b) Rupa**  
 (c) Soni  
 (d) Sarita
36. If + means  $\times$ , - means  $\div$ ,  $\times$  means - and  $\div$  means +, then the value of  $9+8\div 8-4\times 9$  is  
 (a) 56  
**(b) 65**  
 (c) 66  
 (d) 55

37. How many triangles are present in the following figure?



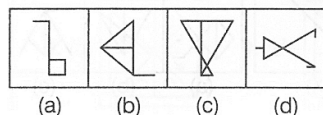
- (a) 14  
 (b) 10  
**(c) 12**  
 (d) 16
38. In the given question, you are given a figure (X) followed by four figures (a), (b), (c) and (d) such that (X) is embedded in one of them. Trace out the correct alternative.

Problem figure



(X)

Answer figure



Ans. **(b)**

9. Which of the following is not kharif crop?  
 (a) Maize  
**(b) Wheat**  
 (c) Rice  
 (d) Jowar.
10. Penicillium is a:  
 (a) Algae  
**(b) Fungus**  
 (c) Bacteria  
 (d) Yeast.

## SOCIAL SCIENCE

11. The Industrial Revolution occurred in England in the \_\_\_\_\_ century.  
 (a) Sixteenth  
 (b) Nineteenth  
**(c) Eighteenth**  
 (d) Twentieth.
12. Haider Ali became the ruler of Mysore in \_\_\_\_\_.  
**(a) 1761**  
 (b) 1775  
 (c) 1760  
 (d) 1767.
13. The majority of the British India army comprised of \_\_\_\_\_.  
 (a) Village guards  
 (b) Sepoys  
**(c) Englishmen**  
 (d) Civil servants.
14. Which of the following products can be recycled?  
 (a) Gold jewellery  
 (b) Petrol  
**(c) Cooking gas**  
 (d) Coal.
15. The Alpine meadows are used for \_\_\_\_\_.  
 (a) Cultivation  
 (b) Mining  
 (c) Horticulture  
**(d) Grazing.**
16. Underground water reserves have been depleted by \_\_\_\_\_.  
**(a) Deforestation**  
 (b) Construction of houses  
 (c) Terrace farming  
 (d) Contour ploughing.
17. Citrus fruit trees are found in the \_\_\_\_\_.  
**(a) Mediterranean**  
 (b) Rain

- (c) Taiga  
(d) Monsoon.

18. The day the Constitution came into effect is celebrated as \_\_\_\_\_  
(a) Independence Day  
(b) National holiday  
**(c) Republic Day**  
(d) Children's Day.
19. Abolition of slavery and bonded labour upholds the right against \_\_\_\_\_.  
(a) Discrimination  
(b) Bias  
(c) Prejudices  
**(d) Exploitation.**
20. The \_\_\_\_\_ is the leader of the Lok Sabha.  
(a) President  
(b) Speaker  
**(c) Prime minister**  
(d) Vice-president.

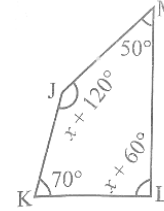
## MATHEMATICS

21. If  $12\frac{1}{2}m$  of rope is divided into 4 equal pieces, the length of each piece is  
(a)  $6\frac{1}{4}$

- (b)  $8\frac{1}{3}$   
(c)  $3\frac{1}{2}$   
**(d)  $3\frac{1}{8}$**

22. If  $\frac{3^m \times 3^6}{3^{-3}} = 3^{18}$ , then  $m =$   
(a) 21  
(b) 12  
**(c) 9**  
(d) 6
23.  $\frac{(1-x)}{2} + \frac{3}{4} = 3x + \frac{(2x+1)}{6}$ , then  $x$  equals to  
(a)  $-\frac{7}{2}$   
(b)  $\frac{13}{46}$   
**(c)  $-\frac{13}{2}$**   
(d)  $\frac{13}{23}$
24. The age of the Rachits father is  $\frac{7}{3}$ rd of Rachits age and sum of their age is 50 years. Find their ages  
**(a) 15**  
(b) 13  
(c) 11  
(d) 10
25. Find the missing angle in the given question

- (a) 60  
**(b) 30**  
(c) 40  
(d) 50



26. Which of the following is a Pythagorean triplet  
(a) (2, 4, 5)  
(b) (5, 11, 13)  
**(c) (8, 15, 17)**  
(d) (7, 24, 26)
27. If  $\sqrt{169x} = 1.3$ , then the value of  $x$  is  
**(a) 10**  
(b) 100  
(c) 1000  
(d) none of these
28. Which of the following is a perfect cube  
(a) 28  
(b) 127  
**(c) 729**  
(d) 516
29. What is 15% of Rs.34?  
(a) Rs.3.40  
(b) Rs.3.75  
(c) Rs.4.50  
**(d) Rs.5.10**

30.  $(2x + 3y)^2 + (2x - 3y)^2$  equals to  
(a)  $4x^2 + 9y^2$   
**(b)  $8x^2 + 18y^2$**   
(c)  $12xy$   
(d)  $24xy$

## MENTAL ABILITY

31. In a certain code language, 'MAN' is coded as 'NBO' then in the same code language 'TUL' will be written as  
(a) UVP  
(b) UWN  
**(c) UVM**  
(d) UMW
32. 1, 8, 27, 64, ..., 216  
(a) 127  
**(b) 125**  
(c) 124  
(d) 128
33. P and Q are brother, X and Y are sister, son of P is the brother of Y. How is Q related to X?  
(a) Father  
(b) Brother  
(c) Daughter  
**(d) Uncle**