

# BIGBANG

## EDGE TEST

### SAMPLE PAPER

### For Students presently in Class VII

## Paper 1 – MENTAL ABILITY

Duration : 105 minutes

Paper Code: 78-1

Maximum Marks : 105

Please read the instructions and guidelines carefully :

**Important Note** : Please ensure to accurately input the details for the Question Paper Code as indicated at the top of this sheet (Side 2) into the corresponding columns / fields on the OMR sheet before proceeding with the paper. Incorrectly filled information regarding the class or paper may result in inaccurate outcomes or results.

*"This paper has been scientifically designed to evaluate your potential – manifested and hidden for the target examinations mentioned in various sections of the paper. Thus, your adherence to the instructions is critical in the evaluation of the same"*

1. This Question paper consists of 2 sections.
2. Student should devote allotted time for each section. If a section is easy, then it is easy for everyone & was meant to be like that with a goal in mind. Do not switch over to another section if you find the section to be easy. If a section is tough, then it is tough for everyone. You are advised to spend 45 Minutes on Section-I and 60 Minutes on Section-II. Dedicating the required time to finish each section successfully is essential. Opening the next section before completing the allotted time for the preceding section is not permitted. This adherence is crucial for assessing your true potential, as each section is meticulously crafted to evaluate your potential for the corresponding competitive examinations.
3. Candidate should open the seal of Section-II only after completing 45 minutes of Section-I.
4. Sheets will be given to each candidate for rough work. Candidate must fill all details on the rough sheet and submit the same to invigilator along with OMR sheet. Candidate must mention the Question No. while doing the rough work in the sheet.
5. Please note candidates are not allowed to bring any prohibited items into the exam hall such as electronic devices, mobile phones, smart watch, earphones, calculators, books, notes, formula sheets, and bags.
6. Marking scheme is given in table below:

Section	Subject	Question no.	Marking Scheme for each question	
			Correct answer	Wrong answer
SECTION – I (NTSE) Time Allotted: 45 Minutes	MENTAL ABILITY	1 to 15	+3	0
SECTION – II High Order Thinking Skill (Olympiad & JEE Main) Time Allotted: 60 Minutes	MENTAL ABILITY	16 to 35	+3	0

# Section - I

**Time: 45 Minutes**

## MENTAL ABILITY

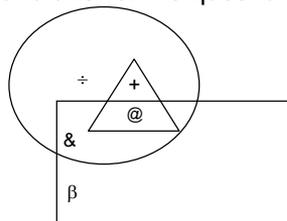
This section contains 6 Multiple Choice Questions number 1 to 6. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

- How many 6s are there in the following number series which are immediately preceded by 3 but not immediately followed by 9?  
4 6 9 3 6 9 5 3 6 8 4 3 6 9 5 6 3 6 5 6 9 3 6 9 3 6 3 5 7  
(A) One (B) Two  
(C) Three (D) Four
- In code language:  
(i) '529' means "He got meal"  
(ii) '894' means "meal is stale"  
(iii) '273' means "He be told"  
(iv) '604' means "Eat the stale"  
Which of the following stands for 'He'?  
(A) 2 (B) 7  
(C) 9 (D) 6
- Ritu Gupta ranks 5<sup>th</sup> in a classes of 53. What is her rank from the bottom in the class?  
(A) 48<sup>th</sup> (B) 49<sup>th</sup>  
(C) 50<sup>th</sup> (D) 47<sup>th</sup>
- Ajay is taller than Rajesh who is shorter than Sunil. Madan is taller than Kundan but shorter than Rajesh, Sunil is shorter than Ajay. Who is the shortest?  
(A) Ajay (B) Kundan  
(C) Sunil (D) Madan
- If B's mother is Mr. A's mother's daughter, how is A related to B?  
(A) sister (B) maternal uncle  
(C) brother (D) None of these
- How many pairs of letters in the word "NOVEL" have as many letters between them in the word as in the English alphabet?  
(A) 4 (B) 3  
(C) 1 (D) 2

This section contains **THREE (03)** comprehensions. Based on each comprehension, there are **THREE (03)** questions of **Multiple Choice Questions**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

### Comprehension for Q. No. 7 to 9

Read the following information carefully and answer the questions given below.



Circle stands for educated boys, rectangle stands for unemployed boys and triangle stands for computer skilled boys.

7. Which Symbol represents the employed educated boys who are computer skilled?  
(A) & (B) @  
(C) + (D) ÷
8. Which Symbol represents the unemployed educated boys who are not computer skilled?  
(A) & (B) β  
(C) @ (D) +
9. Which Symbol represents the educated boys who are neither unemployed nor computer skilled?  
(A) & (B) ÷  
(C) β (D) Can't be determined

**Comprehension for Q. No. 10 to 12**

In each of the following questions, four groups of letters are given, three of them are alike in a certain way while one is different. Choose the odd one.

10. (A) RNJ (B) XTP  
(C) MIE (D) ZWR
11. (A) STUA (B) RQPA  
(C) MLKA (D) HGFA
12. (A) PRVX (B) MQTV  
(C) DHKM (D) BFIK

**Comprehension for Q. No. 13 to 15**

In each of the following question there is a certain relationship between two terms to the left of :: and the same relationship holds between the two terms to its right, also in each question one term either to the right of :: or to the left of it is missing this term is given as one of the alternatives given below each question and find out this term.

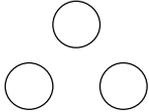
13. 11 : 1210 :: \_\_\_\_\_  
(A) 8 : 448 (B) 6 : 2160  
(C) 7 : 1029 (D) 9 : 729
14. 14 : 9 :: 26 : \_\_\_\_\_  
(A) 12 (B) 13  
(C) 15 (D) 31
15. DWN : WDS :: FUL : \_\_\_\_\_  
(A) OFU (B) UFQ  
(C) FOU (D) ELV

## Section – II

Time: 60 Minutes

## MENTAL ABILITY

This section contains 11 Multiple Choice Questions number 16 to 26. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

16. If "+" means "-", "-" means "x", "x" means "÷" and "÷" means "+" then:  
 $30 \times 5 \div 5 - 5 + 5 = ?$   
 (A) 26 (B) 43  
 (C) 52 (D) 50
17. Which of the following represent the correct relationship among copper, metal, zinc?  
 (A)  (B)   
 (C)  (D) 
18. Fill in the blanks  
 Z, X, V, T, R, (...), (...)  
 (A) O, K (B) N, M  
 (C) K, S (D) P, N
19. In the question given below some letters have been left out, and are given as one of the four alternatives under it in that order. Find out the correct alternative.  
 b – ca – bc – bbc – bbca  
 (A) bbaa (B) bbab  
 (C) abbb (D) baba
20. What will come in place of ? in the following series.  
 5, 11, 23, 47, 95, ?  
 (A) 191 (B) 161  
 (C) 169 (D) 190
21. In the following question, arrange the given words in the sequence in which they occur in the English dictionary and then choose the correct sequence.  
 1. Spruce 2. Spume 3. Spree 4. Spurt 5. Sprawl  
 (A) 5, 3, 1, 2, 4 (B) 1, 2, 3, 4, 5  
 (C) 3, 5, 1, 4, 2 (D) 5, 4, 3, 2, 1
22. If A + B means A is the father of B; A – B means A is the brother of B; A % B means A is the wife of B and A × B means A is the mother of B, which of the following shows that M is the maternal grandmother of T?  
 (A)  $M \times N \% S + T$  (B)  $M \times N - S \% T$   
 (C)  $M \times S - N \% T$  (D)  $M \times N \times S \% T$
23. Find the missing number:  
 $24 : 38 :: 37 : ?$   
 (A) 70 (B) 89  
 (C) 64 (D) 72

24. Find the missing number:  
 $6 : 222 :: 7 : ?$   
 (A) 210 (B) 336  
 (C) 343 (D) 350
25. Suresh walks 20 metres North. Then he turns right and walks 30 m. Then he turns right and walks 35 m. Then he turns left and walks 15 m. Then he again turns left and walks 15 m. In which direction and how many metres away is he from his original position?  
 (A) 15 m; West (B) 30 m; East  
 (C) 30 m; West (D) 45 m; East
26. If the word "EARTH" be written as "QPMZS" in coded form, how can "HEART" be written following the same coding?  
 (A) SQPZM (B) SQMPZ  
 (C) SPQZM (D) SQPMZ

*This section contains **THREE (03)** comprehensions. Based on each comprehension, there are **THREE (03)** questions of **Multiple Choice Questions**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.*

**Comprehension for Q. No. 27 to 29**

If 'A + B' means 'A is the father of B'  
 'A - B' means 'A is the wife of B'  
 'A × B' means 'A is the brother of B'  
 'A ÷ B' means 'A is the daughter of B', then

27. If  $P \times R - Q$ , which of the following is true?  
 (A) P is the brother-in-law of Q (B) P is the brother of Q  
 (C) P is the uncle of Q (D) P is the father of Q
28. If  $P \div R + Q$ , which of the following is true?  
 (A) P is the father of Q (B) P is the brother of Q  
 (C) P is the mother of Q (D) P is the sister of Q
29. If  $P - R \times Q$ , which of the following is true?  
 (A) P is the sister of Q (B) Q is the husband of P  
 (C) P is the sister-in-law of Q (D) Q is the son of P

**Comprehension-2 for Q. No. 30 to 32**

Find the missing term in the following series.

30. 1, 4, 2, 8, 6, 24, 22, 88, \_\_\_\_\_  
 (A) 86 (B) 90  
 (C) 154 (D) 352
31. 2, 5, 17, 65, \_\_\_\_\_, 1025  
 (A) 224 (B) 257  
 (C) 334 (D) 725
32. A, CD, GHI, \_\_\_\_\_, UVWXY  
 (A) LMNO (B) MNOL  
 (C) NOPQ (D) MNOP

**Comprehension–3 for Q. No. 33 to 35**

A, B, C, D, E, F and G are sitting on a wall and all of them are facing east. C is on the immediate right of D. B is at an extreme end and has E as his neighbour, G is between E and F, D is sitting third from the south end

33. Who is sitting to the Right of E?  
(A) A (B) C  
(C) D (D) G
34. Which of the following pairs of people are sitting at the extreme ends ?  
(A) AB (B) CB  
(C) FB (D) AE
35. Name the person who should change places with C such that C gets the third place from the north end  
(A) G (B) E  
(C) D (D) A

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### **Paper 1 – MENTAL ABILITY**

**Paper Code: 78-1**

#### **ANSWER KEYS**

- |       |       |       |       |
|-------|-------|-------|-------|
| 1. C  | 2. A  | 3. B  | 4. B  |
| 5. B  | 6. D  | 7. C  | 8. A  |
| 9. B  | 10. D | 11. A | 12. A |
| 13. A | 14. C | 15. B | 16. A |
| 17. C | 18. D | 19. A | 20. A |
| 21. A | 22. A | 23. C | 24. D |
| 25. D | 26. D | 27. A | 28. D |
| 29. C | 30. A | 31. B | 32. D |
| 33. D | 34. A | 35. A |       |