

## ATUL CLASSES

Test / Exam Name: Ab

Standard: 6th

Subject: Mathematics

Student Name: \_\_\_\_\_

Section: \_\_\_\_\_

Roll No.: \_\_\_\_\_

Questions: 80 Time: 01:00 hh:mm Negative Marks: 0 Marks: 101

Q1. Read the number:

22 Marks

88, 789

- A Eight thousand eight hundred seven eighty nine. B Eighty eight thousand seven hundred eighty nine.  
C Eighty eight thousand eight hundred eighty nine. D Eighty eight thousand seven hundred ninety eight.

Q2. In which of the following pairs of integers, the first integer is not on the left of the other integer on the number line?

1 Mark

- A (-1, 10) B (-3, -5) C (-5, -3) D (-6, 0)

Q3. Mark (✓) against the correct answer in the following:

1 Mark

One million = \_\_\_\_\_.

- A 1 lakh. B 10 lakh. C 100 lakh. D 1 crore.

Q4. Subtract - 30 from - 10

1 Mark

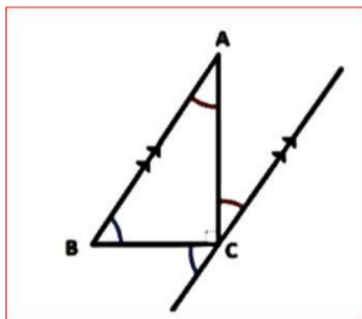
- A +20 B 40 C -20 D -40

Q5. Directions: In the following questions, the Assertions (A) and Reason(s) (R) have been put forward.

1 Mark

Read both the statements carefully and choose the correct alternative from the following:

Assertion (A):



Reason (R): An angle measures the amount of turn.

Both A and R are True and R is the correct explanation of A.

Both A and R are True but R is not the correct explanation of A.

A is True but R is false.

A is false but R is true.

- A Both A and R are True and R is the correct explanation of A.  
B Both A and R are True but R is not the correct explanation of A. C A is True but R is false.  
D A is false but R is true.

Q6. The cost of one pencil is Rs. 1.50 then the cost of 10 pencils is -

1 Mark

- A Rs. 15 B Rs. 150 C Rs. 1.5 D None of these

Q7.  $(1, -1)$ ,  $(-\frac{1}{2}, \frac{1}{2})$  and  $(1, 2)$  are the vertices of a/an \_\_\_\_\_ triangle.

1 Mark

- A equilateral B isosceles C right angled D scalene

Q8. If  $x^2 - 3x + 1 = 0$  then the value of  $x - \frac{1}{x}$  is.

1 Mark

- A  $\sqrt{5}$  B  $\sqrt{3}$  C  $\sqrt{2}$  D  $\sqrt{6}$

Q9.

1 Mark

**Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward.

Read both the statements carefully and choose the correct alternative from the following:

**Assertion (A):**  $0.9 = \frac{90}{100}$

**Reason (R):** Decimals can be written in fraction form. To convert a decimal to a fraction, place the decimal number over its place value.

- A Both A and R are true and R is the correct explanation of A  
 B Both A and R are true but R is not the correct explanation of A      C A is true but R is false  
 D A is false but R is true

**Q10. Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. **1 Mark**

Read both the statements carefully and choose the correct alternative from the following:

**Assertion (A):** 2, 4, 6, 8, 10, 12, 14 are Even numbers.

**Reason (R):** Even numbers should be divisible by 2.

- A Both A and R are true and R is the correct explanation of A  
 B Both A and R are true but R is not the correct explanation of A      C A is true but R is false  
 D A is false but R is true

**Q11.** The simplest form of 24 : 36 is. **1 Mark**

- A 9 : 4      B 4 : 9      C 3 : 2      D 2 : 3

**Q12.** A number which is a factor of every number is **1 Mark**

- A 0      B 1      C 2      D none

**Q13.** If 5 : 4 :: 30 : x, then the value of x is: **1 Mark**

- A 24      B 12      C 32      D 6

**Q14.** Number of whole numbers lying between -5 and 5 is: **1 Mark**

- A 10      B 3      C 4      D 5

**Q15. Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. **1 Mark**

Read both the statements carefully and choose the correct alternative from the following:

**Assertion (A):**

**Reason (R):** A curve is a shape or a line which is smoothly drawn in a plane having a bent or turns in it

Both A and R are True and R is the correct explanation of A.

Both A and R are True but R is not the correct explanation of A.

A is True but R is false.

A is false but R is true.

- A Both A and R are True and R is the correct explanation of A.  
 B Both A and R are True but R is not the correct explanation of A.      C A is True but R is false.  
 D A is false but R is true.

**Q16. Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. **1 Mark**

Read both the statements carefully and choose the correct alternative from the following:

**Assertion (A):** The rule, which gives the number of matchsticks required to make the matchstick pattern S, is  $5n$

**Reason (R):** n is an example of a variable. Its value is not fixed; it can take any value 1, 2, 3, 4,.... We wrote the rule for the number of matchsticks required using the variable n.

- A Both A and R are true and R is the correct explanation of A  
 B Both A and R are true but R is not the correct explanation of A      C A is true but R is false  
 D A is false but R is true

**Q17.** On which day were the maximum number of students present? **1 Mark**

- A Monday      B Thursday      C Tuesday      D Saturday.

**Q18.** **1 Mark**

Solve :  $2\frac{5}{7}\%$  of 280cm.

2.80cm



A 6

B 10

C 12

D 26

- Q32.** If the cost of fencing a rectangular field at Rs. 7.50 per metre is Rs. 600, and the length of the field is 24m, then the breadth of the field is: **1 Mark**
- A 8m                      B 18m                      C 24m                      D 16m
- Q33.** A quadrilateral whose opposite sides are parallel is called: **1 Mark**
- A A rhombus.              B A kite.                      C A trapezium.              D None of these.
- Q34.** Temperature decreased by  $20^\circ$  This event is represented as **1 Mark**
- A +20                      B -20                      C 10                      D -10
- Q35. Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following: **1 Mark**
- Assertion (A):** 4, 6, 5, 8, 7, 0  
**Reason (R):** Positive integers
- A Both A and R are true and R is the correct explanation of A  
B Both A and R are true but R is not the correct explanation of A              C A is true but R is false  
D A is false but R is true
- Q36.** Mark the correct alternative in the following: **1 Mark**
- The difference between the greatest and smallest numbers which when rounded off a number to the nearest tens as 540, is:
- A 10                      B 9                      C 8                      D 10
- Q37.** The product of a whole number (other than zero) and its successor is: **1 Mark**
- A An even number.              B An odd number.              C Divisible by 4              D Divisible by 3
- Q38.** Mark the correct alternative in the following: **1 Mark**
- Which of the following numbers is prime?
- A 23                      B 51                      C 38                      D 26
- Q39.** How many circles can be drawn to pass through three non-collinear points? **1 Mark**
- A 1                      B 2                      C 0                      D As many as possible.
- Q40.** The product of the predecessor and successor of an odd natural number is always divisible by: **1 Mark**
- A 2                      B 4                      C 6                      D 8
- Q41.** Mark the correct alternative in the following: **1 Mark**
- The smallest counting number is:
- A 0                      B 1                      C 10                      D None of these.
- Q42.** Mark the correct alternative in the following: **1 Mark**
- Three numbers are in the ratio 1 : 2 : 3 and their HCF is 6, the numbers are:
- A 4, 8, 12                      B 5, 10, 15                      C 6, 12, 18                      D 10, 20, 30
- Q43.** Two numbers are in the ratio 2 : 7. If the second number is 378, find the first. **1 Mark**
- A 105                      B 180                      C 108                      D 165
- Q44.** Mark (✓) against the correct answer: **1 Mark**
- Which of the following is not meaningful?
- A CI                      B CII                      C IC                      D XC
- Q45. Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following: **1 Mark**
- Assertion (A):** The simplest form of  $\frac{45}{20}$  is  $\frac{4}{9}$

**Reason (R):** A fraction is a number representing part of a whole.

- A** Both A and R are true and R is the correct explanation of A.  
**B** Both A and R are true but R is not the correct explanation of A      **C** A is true but R is false.  
**D** A is false but R is true.

**Q46.** Mark the correct alternative in the following: **1 Mark**  
 How many lakhs are there in one million?

- A** 100      **B** 10      **C** 1000      **D** None of these.

**Q47. Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. **1 Mark**  
 Read both the statements carefully and choose the correct alternative from the following:

**Assertion (A):** Prime numbers less than 15 are 2, 3, 5, 7, 11 and 13.

**Reason (R):** The numbers other than 1 whose only factors are 1 and the number itself are called Prime numbers

- A** Both A and R are true and R is the correct explanation of A  
**B** Both A and R are true but R is not the correct explanation of A      **C** A is true but R is false  
**D** A is false but R is true

**Q48.** One million is equal to: **1 Mark**

- A** 1 lakh      **B** 10 lakh      **C** 1 crore      **D** 10 crore

**Q49.** In a division sum, we have dividend = 199, quotient = 16 and remainder = 7. The divisor is: **1 Mark**

- A** 11      **B** 23      **C** 12      **D** None of these.

**Q50.** The smallest whole number is: **1 Mark**

- A** 1      **B** 0      **C** 2      **D** None of these.

**Q51.** The ratio of the length and breadth of a rectangle is 4 : 3 The area of the rectangle is  $192\text{cm}^2$ . The perimeter of the rectangle will be- **1 Mark**

- A** 46cm      **B** 36cm      **C** 56cm      **D** 28cm

**Q52.** Mark (✓) against the correct answer in the following. **1 Mark**

If a bus covers 195km in 3 hours and a train covers 300km in 4 hours, then the ratio of their speeds is

- A** 13 : 15      **B** 15 : 13      **C** 13 : 12      **D** 12 : 13

**Q53.** LCM of two numbers is 180. Then, which of the following is not the HCF of the numbers? **1 Mark**

- A** 45      **B** 60      **C** 75      **D** 90

**Q54.** Which of the following fraction has denominator 4? **1 Mark**

$\frac{42}{7}$   
 $\frac{7}{7}$   
 $\frac{24}{24}$   
 $\frac{9}{9}$   
 $\frac{4}{4}$   
 $\frac{4}{9}$

- A**  $\frac{42}{7}$       **B**  $\frac{7}{24}$       **C**  $\frac{9}{4}$       **D**  $\frac{4}{9}$

**Q55.** The Width W of a rectangle is 2 inches less than half its length L. Express the perimeter P of the rectangle in terms of the length L: **1 Mark**

- A**  $3L - 4$       **B**  $4L - 4$       **C**  $4L$       **D**  $3L - 2$

**Q56.** In a  $\triangle ABC$  if  $\angle A = \angle B + \angle C$  then  $\angle A =$ - **1 Mark**

- A**  $30^\circ$       **B**  $90^\circ$       **C**  $60^\circ$       **D** None of these

**Q57.** The graphical representation of the pair of equations  $x + 2y - 4 = 0$  and  $2x + 4y - 12 = 0$  is: **1 Mark**

- A** Intersecting lines      **B** Parallel lines      **C** Coincident lines      **D** All the above

- Q58.** A began business with Rs. 4,500 and was joined afterwards by B with Rs. 5,400. If the profit at the end of the year was divided in the ratio of 2 : 1, then the time of joining B was after **1 Mark**
- A 5 months                      B 7 months                      C 8 months                      D 9 months
- Q59.** The prime number that comes just after 43 is ..... **1 Mark**
- A 49                                  B 45                                  C 47                                  D none of these
- Q60.** The fraction  $\frac{7}{100}$  is decimal is: **1 Mark**
- A 7.1                                  B 7.01                                  C 0.7                                  D 0.07
- Q61. Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following: **1 Mark**  
**Assertion (A):** 663 and 273 does not contain any repeated integers.  
**Reason (R):** Repeated numbers consists of digits which are repeated in the same number.  
 Both A and R are True and R is the correct explanation of A.  
 Both A and R are True but R is not the correct explanation of A.  
 A is True but R is false.  
 A is false but R is true.
- A Both A and R are True and R is the correct explanation of A.  
 B Both A and R are True but R is not the correct explanation of A.                      C A is True but R is false.  
 D A is false but R is true.
- Q62. Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following: **1 Mark**  
**Assertion (A):** 3 /tenths = 0.03  
**Reason (R):** Decimals are a set of numbers lying between integers on a number line
- A Both A and R are true and R is the correct explanation of A  
 B Both A and R are true but R is not the correct explanation of A                      C A is true but R is false  
 D A is false but R is true
- Q63. Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following: **1 Mark**  
**Assertion (A):**  $\frac{1}{8} + \frac{1}{8} = \frac{1}{4}$ .  
**Reason (R):** The addition of fractions teaches us to add two or more fractions with the same or different denominators.
- A Both A and R are true and R is the correct explanation of A.  
 B Both A and R are true but R is not the correct explanation of A                      C A is true but R is false.  
 D A is false but R is true.
- Q64.** The sum of four consecutive integers is 46 then the four integers are **1 Mark**
- A 11, 12, 13, 14                      B 10, 11, 12, 13                      C 6, 7, 8, 9                      D 20, 21, 22, 23
- Q65.** The HCF of two co-primes is: **1 Mark**
- A The smaller number.                      B The larger number.                      C Product of the numbers.  
 D 1
- Q66.** I think of a number and on adding 13 to it, I get 27. The equation for this is: **1 Mark**
- A  $x - 27 = 13$                       B  $x - 13 = 27$                       C  $x + 27 = 13$                       D  $x + 13 = 27$
- Q67.** Mark the correct alternative in the following: **1 Mark**  
 What least number be assigned to \* so that the number 63576\*2 is divisible by 8?
- A 1    B 2    C 3    D 4
- Q68.**  $(+48) + (-53) =$  **1 Mark**

A +5

B -5

C 5

D None

**Q69. Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. **1 Mark**

Read both the statements carefully and choose the correct alternative from the following:

**Assertion (A):**  $\frac{5}{4}$  is a proper fraction

**Reason (R):** Proper fraction is a fraction whose numerator is smaller than its denominator

A Both A and R are true and R is the correct explanation of A

B Both A and R are true but R is not the correct explanation of A C A is true but R is false

D A is false but R is true

**Q70.** The quotient of x by y added to the product of x and y is written as: **1 Mark**

A  $\frac{x}{y} + xy$

B  $\frac{y}{x} + xy$

C  $\frac{xy+y}{y}$

D  $\frac{xy+y}{x}$

**Q71.** Mark (✓) against the correct answer. **1 Mark**

A brick is an example of a:

A Cube.

B Cuboid.

C Prism.

D Cylinder.

**Q72.** What is a line segment? **1 Mark**

A A straight path having no end points

B A straight path having two end points

C A straight path having one end point

D A path having end points

**Q73.** Find the first four common multiples of the following : 3 and 4. **1 Mark**

24, 28, 32, 36

24, 27, 33, 36

12, 24, 36, 48

12, 15, 20, 24

A 24, 28, 32, 36

B 24, 27, 33, 36

C 12, 24, 36, 48

D 12, 15, 20, 24

**Q74.** The area of a square field is 7744sq. meter. Find its perimeter: **1 Mark**

A 84m

B 176m

C 352m

D 44m

**Q75.** The number of faces of a triangular pyramid is: **1 Mark**

A 3

B 4

C 6

D 8

**Q76.** Which of the following statements is not true? **1 Mark**

A Both addition and multiplication are associative for whole numbers.

B Zero is the identity for multiplication of whole numbers.

C Addition and multiplication both are commutative for whole numbers.

D Multiplication is distributive over addition for whole numbers.

**Q77.** If the perimeter of a regular hexagon is x metres, then the length of each of its sides is: **1 Mark**

A  $(x + 6)$  metres

B  $(x - 6)$  metres

C  $(x \div 6)$  metres

D  $(6 \div x)$  metres

**Q78.** The lines which lie on the same plane and do not intersect at any point are called: **1 Mark**

A Perpendicular

B Intersecting

C Parallel

D None of the above

**Q79.**  $138 - 234 = ?$  **1 Mark**

A 60

B 372

C 96

D -96

**Q80.** A rectangular field has its length and breadth in the ratio 5 : 3 Its area is 3.75 hectares the cost of fencing it at Rs 5 per metre is: **1 Mark**

Rs 400

Rs 4000

Rs 1000

Rs 500

**A** Rs 400

**B** Rs 4000

**C** Rs 1000

**D** Rs 500