APPENDIX - G

ACHIEVEMENT TEST IN MATHEMATICS

Directions: This is a test intended to measure your achievement in mathematics. There are 40 test items and time provided to answer them is 40 minutes. Each item in this test is supported by four choices. Of these only one is the correct answer. You have to read the statement carefully and identify the correct answer and encircle the corresponding letter on the answer sheet provided to you. Your performance in this test will not be considered for your academic promotion.

Example: What is the expansion of $a^3$

a) $a \times a$
b) $a + a + a$
c) $a \times a \times a$
d) $3 \times a$

The right answer is $a \times a \times a$. So the correct answer among the given choices is 'C'. You have to encircle the letter C in your answer sheet to indicate your answer as shown below.

a b [C] d

However, if you desire to change the answer after encircling previously marked choice, you have to make a cross mark (X) on the letter already encircle and you can indicate your correct choice by encircling on the appropriate letter.

Examples for Practice:

X. At Rs. 1/- each, what will be the cost of four pencils?

(a) Rs. 2/-  
(b) Rs. 3/-  
(c) Rs. 4/-  
(d) Rs. 6/-

Y. What is the sum of 21 and 12?

(a) 33  
(b) 9  
(c) 24  
(d) 30

Do not write anything in this booklet. All your answers must be marked on the answer sheet.

DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO.
PART - A

1. The annual dividend on a share of 5% stock (par value Rs. 50/-) is
   a) Rs. 5.00
   b) Rs. 2.50
   c) Rs. 2.00
   d) Rs. 1.50

2. What is the order of the $n\sqrt{10}$?
   a) 2
   b) 10
   c) $1/n$
   d) n

3. The shaded portion in the following Venn diagram
   a) A'
   b) B'
   c) $(A\cup B)'$
   d) $(A\cap B)'$

4. Find the ordered pairs corresponding to the points $P_1$, $P_2$ and $P_3$ in the diagram of cartesian plane given below.
   a) (1, 2) (2, 3) (4, 5)
   b) (1, 2) (3, 2) (5, 4)
   c) (2, 1) (3, 2) (5, 4)
   d) (2, 1) (2, 3) (5, 4)

5. If highest score ‘H’ is 64 and lowest score ‘L’ is 14, then the range ‘R’ is
   a) 60
   b) 70
   c) 50
   d) 40

6. The mean proportional of 4 and 64 is
   a) 08
   b) 02
   c) 14
   d) 16

7. In a mathematics class 20 children had forgotten their rulers and 10 had forgotten their pencils “Go and borrow them from someone at once” said the teacher. 24 children left the room. Find how many children had forgotten both?
   a) 61
   b) 27
   c) 17
   d) 13

8. In the proportion $3:4 = 9:12$ which are the means?
   a) 3 and 4
   b) 3 and 12
   c) 9 and 12
   d) 4 and 9
9. The type of function \( f \) represented in the above diagram is:
   a) One-One
   b) One-two
   c) Constant
   d) Identity

10. If A invests Rs. 1,000/- B invests Rs. 2,000/-, find the profit share of A if the total profit is Rs. 600/-
   a) Rs. 100.00
   b) Rs. 200.00
   c) Rs. 300.00
   d) Rs. 400.00

11. For the scores 8, 6, 10, 12, 1, 3, 4, 4, find the arithmetic mean
   a) 4
   b) 5
   c) 6
   d) 8

12. If \( A = \{ 0, 1 \} \) then \( A \times A \) is:
   a) \( \{(1, 0)\} \)
   b) \( \{(0, 1) (1, 0)\} \)
   c) \( \{(0, 1) (0, 1) (1, 1)\} \)
   d) \( \{(0, 1) (0, 1) (1, 0) (1, 1)\} \)

13. If Rama sells his cycle for Rs. 100/- cash down payment and Rs. 200/- per month for 5 months. Find the total cost of the cycle.
   a) Rs. 1,000/-
   b) Rs. 1,200/-
   c) Rs. 1,100/-
   d) Rs. 3,000/-

14. If \( A = \{1, 3, 5, 7\} \), \( B = \{2, 3, 5, 7\} \) and \( C = \{0, 3, 4\} \) then the set \( A \cap (B \cap C) \) is
   a) a null set
   b) a singleton
   c) an infinite
   d) Disjoint

15. Which is the symbol used to represent decision in the flow chart for the algorithm?
   a) 
   b) 
   c) 
   d) 

16. If a function \( f : X \rightarrow Y \) is defined by \( f(X_1) = Y_1, f(X_2) = Y_2, f(X_3) = Y_3 \) then the range of \( f \) is
   a) \( \{Y_1, Y_2, Y_3\} \)
   b) \( \{Y_1, Y_2\} \)
   c) \( \{X_1, X_2, X_3\} \)
   d) \( \{X_1, X_2, X_3, Y_1, Y_2, Y_3\} \)
17. It is found that out of 100 students 18 can drive neither a scooter nor a car, while 25 can drive both these and 55 of them can drive a scooter. How many can drive a car?

   a) 35
   b) 75
   c) 95
   d) 52

18. What is the value of log 6 if log 2 = 0.3010 and log 3 = 0.4771?

   a) 0.1436
   b) 0.3010
   c) 0.4771
   d) 0.7781

19. The value of $a^0$ is

   a) 0
   b) a
   c) 1
   d) $\infty$

20. The product of H.C.F. and L.C.M. of two expressions is equal to

   a) sum of the two expressions
   b) product of the two expressions
   c) ratio of the two expressions
   d) difference of the two expressions

21. Expression of $5^4 = 625$ in logarithmic form is

   a) $\log_{625} 5 = 4$
   b) $\log_{5} 625 = 4$
   c) $\log_{5} 4 = 625$
   d) $\log_{4} 5 = 625$

22. If $m$ and $n$ are positive then $a^m \cdot a^n$ is

   a) $a^{m+n}$
   b) $a^m + n$
   c) $a^{m-n}$
   d) $a^m/a^n$

23. The index form of 81 to the base 3 is

   a) 3
   b) $3^2 + 3^2$
   c) 9
   d) $3^2 \times 3^2$

24. The H.C.F. of $12x^2y$, $21a^2x^y$ and $9ax^2y$ is

   a) $3xy$
   b) $2x^2y^2$
   c) $3xya$
   d) $9x^2y$

25. The area of the circle varies as its squares of its radius. If the area is 154 cm. when $r = 7$ cm., then what is the radius if the area is 38.5 cm.$^2$?

   a) 3.5 cm.
   b) 4.5 cm.
   c) 2.5 cm.
   d) 1.5 cm.
26. If \( t \) varies inversely as the cube root of \( L \) then what is the value of \( k \) if \( t = 2 \) and \( L = 1000 \).
   a) 10
   b) 20
   c) 16
   d) 30

27. If \( t \) varies inversely as the cube root of \( L \) then what is the value of \( k \) if \( t = 2 \) and \( L = 1000 \).
   a) 10
   b) 20
   c) 16
   d) 30

28. Find the value of \( x \) in \( \log_4 64 = x \)
   a) 2
   b) 3
   c) 4
   d) 8

29. A train 315m long is running at 54 km/h. how much time will it take to cross a pole?
   a) 12 sec.
   b) 20 sec.
   c) 21 sec.
   d) 24 sec.

30. A plot of land ABCD is subdivided into three plots as shown in the figure. If \( CD = 30 \text{ cm.} \) and \( AD \parallel BC \parallel PQ \parallel RS \), find the length of \( PR \).
   a) 20 cm.
   b) 10 cm.
   c) 40 cm.
   d) 25 cm.

31. ABCD is a parallelogram. Area of triangle ABC is 10 sq. cms., then the area of triangle ABD is
   a) 8 sq. cm.
   b) 10 sq. cm.
   c) 50 sq. cm.
   d) 100 sq. cm.

32. DE is the line joining the mid-point of two sides of AB & AC of a triangle. If the area of the triangle BCD is 10 sqm. then what is the area of the triangle BEC?
   a) 10 sqm.
   b) 100 sqm.
   c) 150 sqm.
   d) 200 sqm.
33. In which triangle the position of circumcentre s, centroid g, incentre i, and orthocentre o found to coincide.
   a) acute angled triangle
   b) equilateral triangle
   c) obtuse angled triangle
   d) right angled triangle

34. In the figure the value of AE = 4 cm. and AB = 7 cm. then what is the value of AC?
   a) 3 cms
   b) 4 cms
   c) 7 cms
   d) 8 cms

35. Trapezium is a quadrilateral with
   a) Only one pair of opposite sites parallel
   b) Two pairs of parallel sides
   c) all the sides equal
   d) diagonals bisecting each other

36. The volume of a cuboid is 240 cubic cms. If its length is 8 cm. and height is 5 cm. Find its breadth.
   a) 5 cm.
   b) 3 cm.
   c) 2 cm.
   d) 6 cm.

37. Find the sum of interior angles of a polygon having nine sides
   a) 810
   b) 1240
   c) 1260
   d) 1060

38. A polyhedron has 5 surfaces and 5 vertices find the number of edges
   a) 8
   b) 6
   c) 5
   d) 4

39. A regular polyhedron has 12 edges and 8 vertices and 6 faces then the name of the polyhedron is
   a) cuboid
   b) cube
   c) pyramid
   d) prism

40. Find the total surface of a pyramid if slant height is 8 cm. and each edge of the base is 12 cm.
   a) 192 sq. cm.
   b) 144 sq. cm.
   c) 360 sq. cm.
   d) 336 sq. cm.
గమనిక, అవసరము విధానులు

సహాయంతో సంవత్సరం, ఇందులో మరియు ఎర్రతం ఉండాలి. సహాయం, అందరిక, సంవత్సరం, 
ఎర్రతం ఉండాలి. అందరికి నిష్పత్తి ఉంది, సంవత్సరం ఉండాలి. ఈ 
తరవిత్తి సమయంలో వింతలు ఉండాలి. ప్రతి వింతలలో మరియు ఎర్రతం, 
ఎర్రతం ఉండాలి. సంవత్సరం, ఎర్రతం ఉండాలి. ఎర్రతం ఉండాలి. 
ఎర్రతం ఉండాలి. ఎర్రతం ఉండాలి. 

పప్పు: అంతర్భాష, తప్పని

a) a x a
b) a + a + a
c) a x a x a
d) 3 x a

పప్పు ఉంటుంది a x a x a. అంశం సహాయంతో ఎర్రతం, ఎర్రతం ఉండాలి. 'c' దృశ్యం
మాత్రం ఉండాలి. 'c దృశ్య ఉండాలి, సంవత్సరం ఉండాలి అంశం ఉండాలి. 

a b c d

ఉపయోగానికి ఉంటుంది a, b, c, ఉండాలి. a గా ఎర్రతం ఉండాలి. మరియు 'c' దృశ్య ఉండాలి. 'c దృశ్య ఉండాలి. 

పప్పు

X. ఉపయోగానికి ఉంటుంది a?
   (a) 30°   (b) 45°   (c) 60°   (d) 90°

Y. 21 ఆని, 120 మంది ఉంటాలి?
   (a) 33   (b) 9   (c) 24   (d) 30

అంశాలు కంతినారిక ఉంటుంది మరియు ఎర్రతం ఉండాలి. ఎర్రతం ఉండాలి. 

పప్పు ఉంటుంది మరియు ఎర్రతం ఉండాలి.
PART – A

1. (d. 50/- + 5% 5%) അഞ്ചാം 5% കാരണ അഞ്ചാം 5% കാരണ
   a) d. 5.00
   b) d. 2.50
   c) d. 2.00
   d) d. 1.50

2. $\sqrt{10}$ എന്നാണോ കണക്കിന്റെ മൂലതൊട്ടിനെ? 
   a) 2
   b) 10
   c) 1/n
   d) n

3. നിര്‍മ്മിത ലേഖന നിര്‍മ്മിത നോട്ടമായ പദങ്ങളും 
   വൃത്താകൃതികളും

4. നിർണ്ണയം കൂട്ടാളിരിക്കുന്ന വാക്കുകളില്‍ P_1, 
   P_2 എന്ന് P_3 അടിസ്ഥാന വാക്കുകളെ നിർമ്മിത നോട്ടം 
   എത്യര്‍പ്പെടുന്നു.

5. ‘H’ എന്ന ജോലിയുടെ വില അണു. L എന്ന ജോലിയുടെ വില എന്ന് ‘R’
   a) 60
   b) 70
   c) 50
   d) 40

6. 4 ജോലി വിലയും വിശേഷണമായി
   a) 08
   b) 02
   c) 14
   d) 16
7. Given the set A = {0, 1} and B = {1, 0}, which of the following are equal to set A x A?
   a) {(1, 0)}
   b) {(0, 1), (1, 0)}
   c) {(0, 1), (0, 1), (1, 1)}
   d) {(0, 0), (0, 1), (1, 0), (1, 1)}

8. If \(3:4 = 9:12\), then what is the value of \(x\) in the equation \(a:b = c:d\)?
   a) 3 \(a\) to 4
   b) 3 \(b\) to 12
   c) 9 \(c\) to 12
   d) 4 \(d\) to 9

9. If \(f(x) = x^2 - 4\), then what is the range of \(f\)?
   a) \(-\infty\) to \(-4\)
   b) \(-4\) to \(\infty\)
   c) \(-\infty\) to \(\infty\)
   d) \(-4\) to \(\infty\)

10. AIX, BIX, and CIX are three sets of real numbers. Which of the following is true?
    a) \(A = \{0, 1\}\) and \(B = \{1, 0\}\)
    b) \(A = \{0, 1\}\) and \(B = \{1, 0\}\)
    c) \(A = \{0, 1\}\) and \(B = \{1, 0\}\)
    d) \(A = \{0, 1\}\) and \(B = \{1, 0\}\)

11. Which of the following is true?
    a) \(\frac{1}{4} = \frac{2}{8}\)
    b) \(\frac{3}{6} = \frac{1}{2}\)
    c) \(\frac{4}{8} = \frac{1}{2}\)
    d) \(\frac{5}{10} = \frac{1}{2}\)

12. If \(A = \{0, 1\}\) and \(B = \{0, 1\}\), what is \(A \times B\)?
    a) \{(0, 0), (0, 1), (1, 0), (1, 1)\}
    b) \{(0, 1), (1, 0)\}
    c) \{(0, 1), (0, 0), (1, 1)\}
    d) \{(0, 0), (0, 1), (1, 0), (1, 1)\}

13. A = \{0, 1\} and B = \{0, 1\}. Which of the following is true?
    a) \(\text{A} \cdot \text{B} = \{0, 1\}\)
    b) \(\text{A} \times \text{B} = \{0, 1\} \times \{0, 1\}\)
    c) \(\text{A} \times \text{B} = \{0, 1\} \times \{0, 1\}\)
    d) \(\text{A} \times \text{B} = \{0, 1\} \times \{0, 1\}\)

14. If \(\frac{3}{4} = \frac{9}{12}\), what is the value of \(x\)?
    a) 3
    b) 4
    c) 5
    d) 6

15. If \(3:4 = 9:12\), what is the value of \(x\)?
    a) 3
    b) 4
    c) 5
    d) 6

16. If \(\frac{3}{4} = \frac{9}{12}\), what is the value of \(x\)?
    a) 3
    b) 4
    c) 5
    d) 6
14. \( A = \{1, 3, 5, 7\}, B = \{2, 3, 5, 7\} \)
\( C = \{0, 3, 4\} \)
\( A \cap (B \cap C) \) is:

a) \( \emptyset \) is true
b) \( A \) is true
c) \( A \) is true
d) \( B \) is true

15. Which of the following statements (if any) is/are true? (Select all that apply)

a) \( Q \)

b) \( Z \)

16. \( f: X \rightarrow Y \) is such that \( f(X_1) = Y_1, f(X_2) = Y_2, f(X_3) = Y_3 \) then \( Y \) is:

a) \( \{Y_1, Y_2, Y_3\} \)

b) \( \{Y_1, Y_2\} \)

c) \( \{X_1, X_2, X_3\} \)

d) \( \{X_1, X_2, X_3, Y_1, Y_2, Y_3\} \)

17. 100 \( \log_{10} 100 \) is:
18. \( \log 2 = 0.3010 \) and \( \log 3 = 0.4771 \)

\( \log 6 \) is:

a) 0.1436

b) 0.3010

c) 0.4771

d) 0.7781

19. \( a^0 \) is:

a) 0

b) \( a \)

c) 1

d) \( \infty \)

20. \( \log x \) is:

a) \( \log 1 = 0 \)

b) \( \log 2 = 0.3010 \)

c) \( \log 3 = 0.4771 \)

d) \( \log 4 = 0.6021 \)
21. \(5^4 = 625\) \(\Rightarrow\) \(\log_{625} 5 = 4\)  
   a) \(\log_{625} 5 = 4\)  
   b) \(\log_5 625 = 4\)  
   c) \(\log_5 4 = 625\)  
   d) \(\log_4 5 = 625\)

22. \(m \quad n \quad a^m \times a^n \Rightarrow \) \(\Rightarrow\)  
   a) \(a^{mn}\)  
   b) \(a^{m+n}\)  
   c) \(a^{m-n}\)  
   d) \(a^m/a^n\)

23. \(8^3 = 512\) \(\Rightarrow\)  
   a) \(3^8\)  
   b) \(3^2 + 3^3\)  
   c) \(9^2\)  
   d) \(3^2 \times 3^3\)

24. \(12x^2y, 21a^2x^2y^2 \Rightarrow\) \(9ax^2y \Rightarrow\)  
   a) \(3xy\)  
   b) \(2x^2y^2\)  
   c) \(3xya\)  
   d) \(9x^2y\)

25. \(b^2 = \frac{1}{4} \Rightarrow\) \(\Rightarrow\)  
   a) \((b - \frac{1}{2})(b - \frac{1}{2})\)  
   b) \((b + \frac{1}{2})(b + \frac{1}{2})\)  
   c) \((b + \frac{1}{2})(b - \frac{1}{2})\)  
   d) \((b + \frac{1}{2})(b - \frac{1}{2})\)

26. \(\Rightarrow\) \(\Rightarrow\) \(\Rightarrow\) \(\Rightarrow\)  
   a) \(3.5 \Rightarrow\) \(\Rightarrow\) \(\Rightarrow\) \(\Rightarrow\)  
   b) \(4.5 \Rightarrow\) \(\Rightarrow\) \(\Rightarrow\) \(\Rightarrow\)  
   c) \(2.5 \Rightarrow\) \(\Rightarrow\) \(\Rightarrow\) \(\Rightarrow\)  
   d) \(1.5 \Rightarrow\) \(\Rightarrow\) \(\Rightarrow\) \(\Rightarrow\)

27. \(t\) \(\Rightarrow\) \(\Rightarrow\) \(\Rightarrow\) \(\Rightarrow\)  
   a) \(10\)  
   b) \(20\)  
   c) \(16\)  
   d) \(30\)

28. \(\Rightarrow\) \(\Rightarrow\) \(\Rightarrow\) \(\Rightarrow\)  
   a) \(2\)  
   b) \(3\)  
   c) \(4\)  
   d) \(8\)

29. \(315\) \(\Rightarrow\) \(\Rightarrow\) \(\Rightarrow\) \(\Rightarrow\)  
   a) \(12\) sec.  
   b) \(20\) sec.  
   c) \(21\) sec.  
   d) \(24\) sec.
30. ABCD त्रिभुज़को वर्गमयी

AD || BC || PQ || RS आदि PR र

a) 20 सेमी
b) 10 सेमी
c) 40 सेमी
d) 25 सेमी

31. ABCD वर्गको क्षेत्रफल समानतम

AB = 10 सेमी

a) 8 सेमी
b) 10 सेमी
c) 50 सेमी
d) 100 सेमी

32. DE लाई AD आर्धमये AB & AC

BCD आदि 10 सेमी

a) 10 सेमी
b) 100 सेमी
c) 150 सेमी
d) 200 सेमी

33. गुणनक्रम वाली गुणनफल 'S'.

a) 20 सेमी
b) 10 सेमी
c) 40 सेमी
d) 25 सेमी

34. वर्गको AE = 4 सेमी

AB = 7 सेमी

a) 3
b) 4
c) 7
d) 8

35. गुणनक्रम निम्नलिखित गुणनफल

a) 20 सेमी
b) 10 सेमी
c) 40 सेमी
d) 25 सेमी
36. ದಯವನ್ನು ಒಪ್ಪಡಿಸಿ ಪ್ರವೃತ್ತಿ 240
ಪ್ರಶ್ನೆ 8. ಹೆಸರು 5 ಸಾಮಾನ್ಯ.
ಇದ್ದು ಉಳಿದ ವಾಕ್ಯ ಮತ್ತು ಪರಿಣಾಮ.
   a) 5 ಸಾಮಾನ್ಯ.
   b) 3 ಸಾಮಾನ್ಯ.
   c) 5 ಸಾಮಾನ್ಯ.
   d) 6 ಸಾಮಾನ್ಯ.

37. ಮಹಾಭಾರತ ಮಹಾಪ್ರಮಾಣಪಾತಿ ಮತ್ತು
ಮಹಾಭಾರತ ಭೇರಬಿಡಿಕೆ
   a) 810
   b) 1240
   c) 1260
   d) 1060

38.5 ಮಹಾಭಾರತ ಮತ್ತು 5 ಪ್ರಮಾಣಪಾತಿ
ಎಸ್ಸೆ ಪ್ರವೃತ್ತಿ 80 ಸಾಮಾನ್ಯ.
ಇದ್ದು ಉಳಿದ ವಾಕ್ಯ ಮತ್ತು ಪರಿಣಾಮ.
   a) 8
   b) 6
   c) 5
   d) 4

39. ನಾಮಗುರೂಡು ಸಮಸ್ಯೆಗಳು ಪ್ರವೃತ್ತಿ.
   .12 ಹೆಸರು, 8 ಸಾಮಾನ್ಯ ಮತ್ತು,
   6 ಮಹಾಪ್ರಮಾಣಪಾತಿ ಉಳಿದ ವಾಕ್ಯ.
   a) ವರಧ
   b) ಜುರ
   c) ಕುನ್ನಿಯು
   d) ಅಜು

40. ನಾಮಗುರೂಡು ಸದವ ಇತಲು 80 ಸಾ.
ಎಸ್ಸೆ ಪ್ರವೃತ್ತಿ, 5 ಸಾಮಾನ್ಯ ಮತ್ತು,
12 ಸಾಮಾನ್ಯ ಉಳಿದ ವಾಕ್ಯ.
ಎಸ್ಸೆ ಪ್ರವೃತ್ತಿ.
   a) 192 ಸಾ. ಸಾಮಾನ್ಯ.
   b) 144 ಸಾ. ಸಾಮಾನ್ಯ.
   c) 360 ಸಾ. ಸಾಮಾನ್ಯ.
   d) 336 ಸಾ. ಸಾಮಾನ್ಯ.
# Achievement Test in Mathematics

**Name:** ......................................  
**Age:** ..........  
**Sex:** M/F  
**Date:** .................

**Class:** ..................  
**School:** ..................................................

**Example Items:**

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# Achievement Test in Mathematics

**Scoring Key**

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