**GOVERNMENT OF ARUNACHAL PRADESH**
**DIRECTORATE OF ELEMENTARY EDUCATION**
**ARUNACHAL PRADESH STATE BOARD EXAMINATION**
**ACADEMIC SESSION 2021-22**
**CLASS – V (FIVE)**
# SUBJECT - MATHEMATICS

Time: 3 hours

Maximum Mark: - 100
Minimum Mark: - 33

***GENERAL INSTRUCTIONS:-***

1. All the questions are **compulsory**.
2. The question paper consists of **28** questions.
3. The question paper consists of 5 sections:- **A, B, C, D** and **E**.
4. **Section 'A'** comprises of **30** questions each of **1** mark.
5. **Section 'B'** comprises of **10** questions each of **2** marks.
6. **Section 'C'** comprises of **5** questions each of **3** marks.
7. **Section 'D'** comprises of **5** questions each of **4** marks.
8. **Section 'E'** comprises of **3** questions each of **5** marks.

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## SECTION – A

Q.1 Choose the correct option: - 1x10 = 10

(i) An angle smaller than a right angle is called_____

(a) Right angle (b) Obtuse angle (c) Straight angle (d) Acute angle.

(ii) The decimal representation of $\frac{123}{1000}$ is

(a) 1.23 (b) 12.3 (c) 123.0 (d) 0.123

(iii) The number which is neither prime nor composite is

(a) 0 (b) 1 (c) 2 (d) 3

(iv) Example of a proper fraction is_____.

(a) $\frac{18}{14}$ (b) $\frac{26}{25}$ (c) $\frac{12}{13}$ (d) $\frac{9}{5}$

(v) _____thousands make one lakh

(a) 1 (b) 10 (c) 100 (d) 1000

(vi) $1 \times 8 + 1 =$

(a) 9 (b) 16 (c) 10 (d) 8

(vii) The place value of 2 in 7632493 is

(a) 200 (b) 2000 (c) 20 (d) 20000

(viii) How many angles are there in triangle?

(a) 2 (b) 3 (c) 4 (d) 5

(ix) The measure of a right angle is

(a) $90^0$ (b) $180^0$ (c) $270^0$ (d) $360^0$

(x) The greatest common factor of 18 and 24 is

(a) 6 (b) 9 (c) 18 (d) 48

Q.2 Fill in the blanks:- 1x5 =5

(i) Successor of 1999 is_____

(ii) One crore =_____lakh.

(iii) The area of a rectangle = length x_____.

(iv) $\frac{1}{3}$ of Rs. 150 = _____.

(v) 4 hours = _____of a day.

Q3. State true and false ( T / F ) 1x5= 5

(i) An angle whose measure is $120^0$ is obtuse angle.

(ii) 5 zeroes are there in one lakh.

(iii) 1 kg = 1000 gm.

(iv) Angles are measure in degree.

(v) 75 is a multiple of 15.

Q4. Match the following: - 1x5=5

| | | |
|---|---|---|
| (i) | Twice of right angle | (a) 1 year |
| (ii) | 365 | (b) Complete angle |
| (iii) | $360^0$ | (c) $180^0$ |
| (iv) | 5 paise | (d) Mixed fraction |
| (v) | $8\frac{3}{4}, 5\frac{1}{7}, 2\frac{3}{5}$ | (e) Rupee 0.05 |

Q5. Identify the angle as right angle, acute angle, obtuse angle or straight angle: - 1x5=5

(i) $165^0$ = _____

(ii) $45^0$ = _____

(iii) $90^0$ = _____

(iv) $75^0$ = _____

(v) $180^0$ = _____

## SECTION - B

2x10=20

Q6. Convert each of the following into improper fraction:-

(a) $11\frac{4}{5}$ (b) $5\frac{1}{7}$

Q7. Simplify:- $2 - 2 \times 2 + 2 \div 2$

Q8. Write the decimal number of the following:-

(a) $1+\frac{3}{10}+\frac{5}{100}$ (b) $200+0+2+\frac{1}{10}+\frac{3}{100}$

Q9. Reduce the following into lowest form:-

(a) $\frac{15}{40}$ (b) $\frac{7}{21}$

Q10. Write the expanded form of 728321.

Q11. Divide and try to solve:-

(a) $288 \div 4$ (b) $900 \div 10$

Q12. What is the perimeter of a square whose length of a side is 14 cm?

Q13. Find the LCM of 28 and 56.

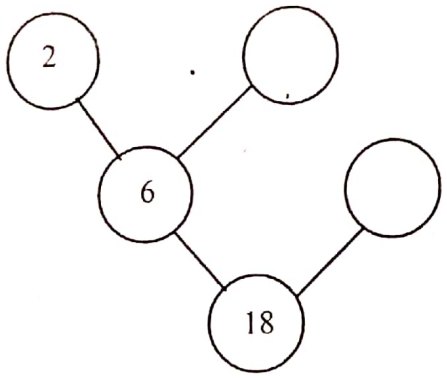
Q14. Solve the following and estimate the value to the nearest hundred:-

(a)
$$\begin{array}{r} 1635372 \\ 402017 \\ +\ 4636869 \end{array}$$

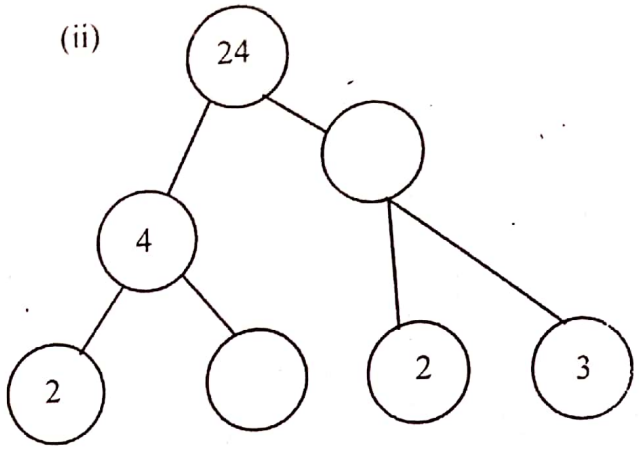
(b)
$$\begin{array}{r} 6470934 \\ -\ 5962883 \end{array}$$

Q15. Complete the factor trees:-

(i)




(ii)




## SECTION - C

3x5=15

Q16. Find the smallest two common multiples of the following numbers:-

(a) 24,12 (b) 6,18 (c) 25,50

Q17. Sukhi works on a farm. He is paid Rs. 98 for one day. If he works for 52 days, how much will he earn?

Q18. Convert each of the following according to the given instruction:-

(a) 25 mm into cm (b) 720 cm into m (c) 2550 paisa into rupee

Q19. Find the HCF by Prime Factorization Method:-

(a) 30,60 (b) 18,36

Q20. Find the quotient and remainder of $75246 \div 5$

## SECTION - D

4x5=20

Q21. Find the volume of a cuboid whose length is 12m, breadth is 10m and height is 9m.

Q22. Convert 96 hours 42 minutes into minutes.

Q23. (a) Fill the correct mathematical operations ( +; −, x, ÷ ) to make the given statement true :-

(i) 335 ___ 67 = 5

(ii) 72 ___ 10 = 720

(iii) 444 ___ 120 = 324

(iv) 9999 ___ 1 = 10000

(b) Write all the factors of 12.

Q24. Solve:- $17 \times 3 + 81 \div 9 - 60$

Q25. Find the perimeter and area of a rectangle with length 6cm and breadth 3 cm.

## SECTION - E

5x3=15

Q26. The height of five cities A, B, C, D and E (Above sea level) are follows:-

| CITY | A | B | C | D | E |
|---|---|---|---|---|---|
| Height(in m) | 300 | 550 | 600 | 400 | 500 |

Draw the Bar graph of the given data.

Q27. (a) Find the Prime Factorization of 48 by Factor Tree Method.

(b) Draw the angles given below by using protractor and label their vertices and arms:-

(i) $175^0$ (ii) $90^0$

Q28. Sunita stood on the road for half an hour and counted the number of vehicles passing by. She made a tally mark for each vehicle. This helped her counting quickly the total number of vehicles in each group.

| | Tally marks | Number |
|---|---|---|
| Cycle | 𝍸 | |
| Car | 𝍸 | |
| Auto rickshaw | 𝍸 | |
| Bus | 𝍸 | |
| Cycle rickshaw | 𝍸 | |
| Truck | 𝍸 | |

**OR**

(a) Fill in the blanks:-

32x21 =

| | 30 | 2 |
|---|---|---|
| 20 | 600 | 40 |
| 1 | 30 | —— |

600

40

30

\+ .....

(b) Follow the pattern given below:-

(i) (6x6) – (5x5) =

(ii) (8x8) – (7x7) =

(iii) (5x5) – (4x4) =

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