



# Provincial Department of Education Northern Province



## Monthly Examination-July -2022

Grade - 8

Mathematics

Time: 1 hour

### Part I

Answer for all questions

1) Find the H.C.F of  $4ax$ ,  $6abx$

2) Find the value of  $\sqrt{5^3 \times 5}$

3) Simplify  $7t\ 300kg - 4t\ 750kg$

4) Write as a power of a product.  $a^3 \times (2b)^3 \times c^3$

5)  $5x - 20y$  : Write as a product of factors.

6) Find the value of  $\sqrt{12 \times 27}$

7) Convert  $4.03\ t$  into  $kg$ .

8) Find the value of  $(-1)^2 \times 3^3$

9) The area of a square shaped flower bed is  $441\ m^2$ . Find the length of a side of the square.

10) For the following statements put a  $\checkmark$  mark for the correct statement and put a  $\times$  for the incorrect statement

(i)  $-4pq + 12pr = 4p(-q + 3r)$  ☐

(ii)  $-4pq + 12pr = -4p(q + 3r)$  ☐

(4 × 10 = 40 marks)

## Part II

01) Due to the economic crisis in the country, the details regarding the relief packets given to a particular area for a period of one month are given in the incomplete table below

Number of family members	Mass of a packet(kg)	Number of families	Total mass of the packet in (kg)	Total mass of the packet in (t)
1, 2	5	140		
3, 4, 5	10	370		
above 5	15	210		

- I. Complete the above table
- II. Calculate the **total mass** of the packets required to supply for the period of one month in **metric ton**.
- III. If the vehicle used for this relief works is capable of carrying maximum of 2 metric tons of weight, find at least **how many times** should this vehicle travel?

(18 + 6 + 6 = 30 marks )

02) a) Fill in the blanks.

I.  $81 = 9^{\square}$

II.  $160 = 2^{\square} \times 5^{\square}$

III.  $64 = \square^2$

IV.  $72 = \square^3 \times 3^{\square}$

b) Compare the followings using the symbols  $>$ ,  $=$  and  $<$

I.  $2^3$  .....  $2^5$

II.  $(-3)^{20}$  .....  $(-3)^{25}$

III.  $2^4$  .....  $(-2)^4$

IV.  $(-1)^{10}$  .....  $(-1)^{100}$

(18 + 12 = 30 marks )

May

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