

Pabna Cadet College  
Fortnightly Examination - 2021  
Subject: Mathematics  
Class: VII

Time: 15 minutes

Full Marks: 10

**Answer all the questions**

1.  $\frac{x^2+x}{xy+y}$  when expressed in lowest term is  
a.  $\frac{x}{y}$  \* b.  $\frac{y}{x}$  c.  $\frac{x}{y^2}$  d.  $\frac{1}{y}$
2.  $\frac{3}{x+3} - \frac{2}{x+2} = ?$   
a.  $\frac{3x}{(x+2)(x+3)}$  b.  $\frac{x}{(3x+2)(x+3)}$  c.  $\frac{4x}{(3x+2)(x+3)}$  d.  $\frac{x}{(x+2)(x+3)}$  \*
3.  $\frac{1}{5x} + \frac{2x}{5x} = ?$   
a.  $\frac{5}{3x}$  b.  $\frac{3}{5x}$  \* c.  $\frac{2}{7x}$  d.  $\frac{4}{5x}$

Answer the questions 4-6 according to the following information

$$\frac{a}{bc}, \frac{a}{ac}$$

4. What is the LCM?  
a. ab b. bc c. ac d. abc \*
5. If the fractions are expressed with common denominators, what is the first term?  
a.  $\frac{a^2}{abc}$  \* b.  $\frac{a}{abc}$  c.  $\frac{b^2}{abc}$  d.  $\frac{b^2}{abc}$
6. What is the summation of the terms?  
a.  $\frac{a+b}{bc}$  \* b.  $\frac{a}{abc}$  c.  $\frac{a+b}{abc}$  d.  $\frac{a(a+b)}{bc}$

Answer the question 7-10 according to the following information.

## 11 9 10 16 12 23 8 22 7 19

7. What is the range of the numbers?  
a. 16 b. 17\* c. 18 d. 15
8. To make class interval 4, how many classes are required?  
a. 3 b. 4 c. 5 d. 6
9. If the first class is 7-10, what is the frequency of the second class?  
a. 1 b. 2\* c. 3 d. 4
10. Which class has the highest frequency?  
a. 7-10\*  
b. 11-14  
c. 15-18  
d. 19-22