

Sylhet Cadet College
Fortnightly Examination - 2024
Class: VII
2nd Term
Subject: Mathematics

Time: 40 minutes

Full Marks: 20

Answer all the questions. Figures in the right indicate full marks.

1. Write in exponential form: $1.5 \times 2 = 3$
 - (a) $6^3 \times 6^2 \times 6^5$
 - (b) 36^5
2. A freelancer earns 10 taka on the first day of his work. Everyday he earns double of the previous day.
 - (a) Express the process with a formula 2
 - (b) How much will he earn on 7th day? 1
 - (c) What is total earning after the end of 10 days? 2
3. Find GCD of $\frac{1}{2}$ and $\frac{1}{3}$ 2
4. Find LCM of
 - (a) $\frac{1}{6}$ and $\frac{1}{8}$ 2
 - (b) $\frac{1}{4}$ and $\frac{3}{11}$ (using formula) 2
5. Solve the following problems
 - (a) $8x - 7 = 5x + 23$ 2
 - (b) A number is doubled and then 5 added to it. The new number is 35. What is the original number? 2
 - (c) The summation of two numbers is 30. The bigger number is 5 times the smaller number. What are the numbers? 2

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