



INDIAN SCHOOL AL WADI AL KABIR

Pre-Mid-Term Revision Paper (2022-23)

CLASS: VIII

MATHEMATICS

Max Marks: 30

Time: 1 hour

Instructions:

Section A: Multiple Choice Question (Q.1 to Q.4)

Section B: Short Answer Questions of 2 marks each (Q.5 to Q.8)

Section C: Long Answer Questions (Type – 1) of 3 marks each (Q.9 to Q.10)

Section D: Long Answer Questions (Type – 2) (Q.11 to Q.12)

& Case study Question (Q.13) of 4 marks each

Section A: Multiple Choice Question (Q.1 to Q.4) of 1 mark each

1.	The multiplicative inverse of $(\frac{2}{3})^{-5}$							
A	$(\frac{2}{3})^{-5}$	B	$(\frac{2}{3})^5$	C	$(\frac{3}{2})^5$	D	1	
2.	Name the property used in $\frac{7}{9} \times \frac{-3}{5} = \frac{-3}{5} \times \frac{7}{9}$							
A	Commutativity	B	Associativity	C	Identity	D	Distributivity	
3.	The value of $(3^3)^2 \div 3^7$ is:							
A	3	B	9	C	$\frac{1}{3}$	D	$\frac{1}{9}$	
4.	A rational number in between $\frac{2}{5}$ and $\frac{2}{7}$ is:							
A	$\frac{9}{35}$	B	$\frac{15}{35}$	C	$\frac{11}{35}$	D	$\frac{20}{35}$	

Section B: Short Answer Questions (Type – 1) of **2** marks each (Q.5 to Q.8)

5. Find the value of 'p' if $7^{2p-1} \div 7^3 = 7^8$

6. Is 0.8 the additive inverse of $-2\frac{1}{4}$? Why?

7. Evaluate $(2^{-2} \times 3^{-1}) \div 4^{-2}$.

8. Simplify and name the property used: $(\frac{9}{7} \times \frac{-14}{3}) \times \frac{15}{27}$

Section C: Long Answer Questions (Type – 1) of 3 marks each (Q.9 to Q.10)

9. Simplify by using property and name it.

$$\frac{-3}{4} \times \frac{5}{11} + \frac{5}{11} \times \frac{5}{8}$$

10. Simplify: $\frac{8^{-1} \times 5^3 \times m^{-5}}{2^{-5} \times 25 \times m^{-8}}$

Section D: Long Answer Questions (Type – 2) (Q.10 to Q.12)

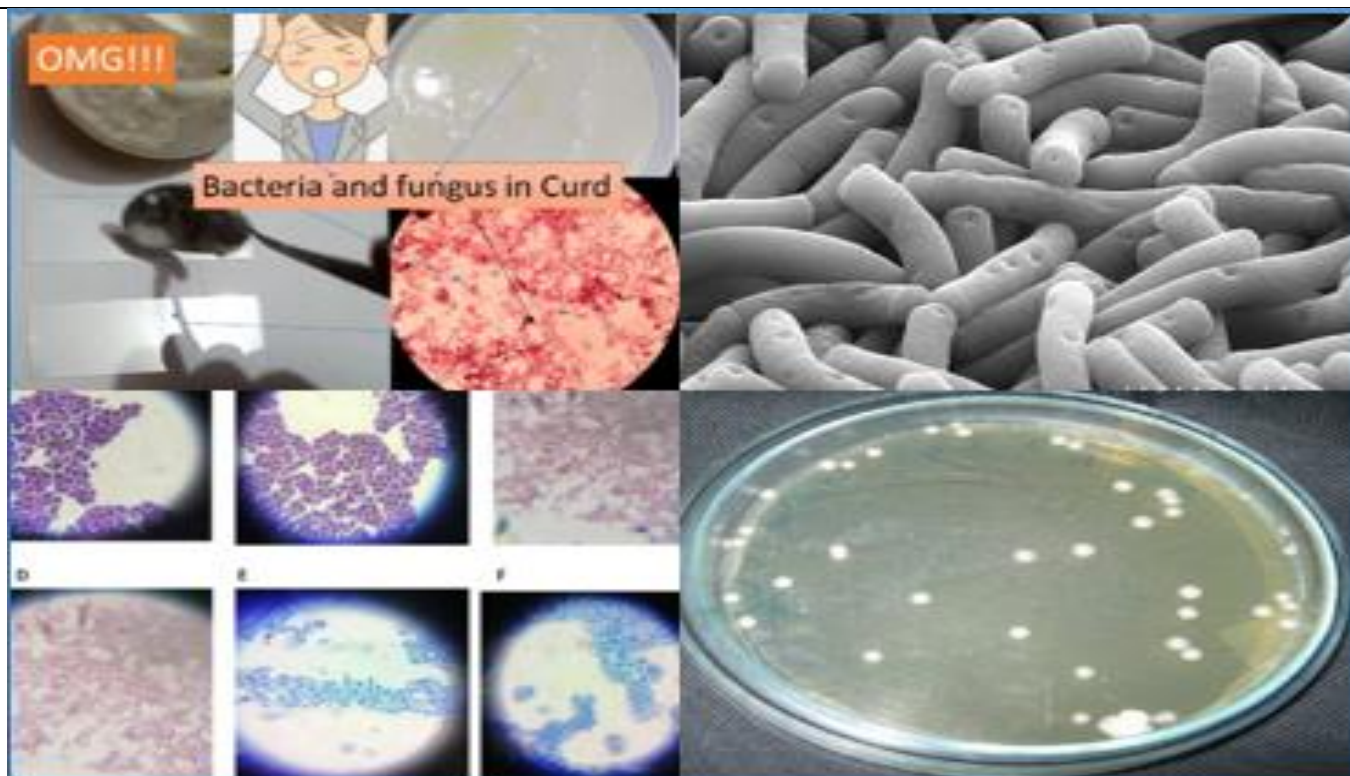
& Case study (Q.13) of **4** marks each

11. Represent the following rational numbers on a number line:

$$\frac{-5}{8}, \frac{-1}{8}, 0 \text{ and } \frac{3}{8}$$

12. Find any five rational numbers between $\frac{-3}{4}$ and $\frac{-4}{5}$

13. Case Study: In a laboratory, the count of bacteria in a certain experiment was increasing every one hour. After first one hour, the count was displayed as 2,25,000. But at the end of 2 hours the count was 5,06,000. The size of a bacteria is 0.000000438m. Read the questions carefully and answer the following:



1.	Write the count of bacteria after the first one hour in standard form.							
	A	22.5×10^5	B	2.25×10^5	C	0.225×10^5	D	
2.	Express the size of bacteria in standard form.							
	A	4.38×10^{-7}	B	4.38×10^{-8}	C	4.38×10^7	D	43.8×10^{-7}
3.	If the size of the bacteria can be enlarged to 50 times of the original one, write the result standard form;							
	A	21.9×10^5	B	21.9×10^{-5}	C	2.19×10^{-5}	D	2.19×10^5
4	If the size of a bacteria is 58.32×10^{-7} , express the number in usual form.							
	A	0.00005832	B	0.000005832	C	0.5832	D	5832000

ANSWERS

	Q.1) B	Q.2) A	Q.3) C	Q.4) C
	Q.5) 6	Q.6) No	Q.7) $\frac{4}{3}$	Q.8) $\frac{-30}{9}$ (Associativity)
	Q.9) $\frac{-5}{88}$ (Distributivity)	Q.10) $20 \times m^3$	Q.11) On no. line	Q.12) Any five
	Q.13) 1-B, 2-A, 3-C,4-B			