CV RAMAN ACADEMY
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Hunt for Junior CV Raman – 2024

CODE	24010

Class X- ENGG

SAMPLE QUESTION PAPER

PHYSICS

1.	At the time of short circuit, the current in the circuit (a) reduces substantially (b) does not change (c) increases heavily (d) very continuously
2.	When a spherical convex lens made of glass is immersed in water, its focal length (a) decreases (b) does not change (c) increases (d) none of the above

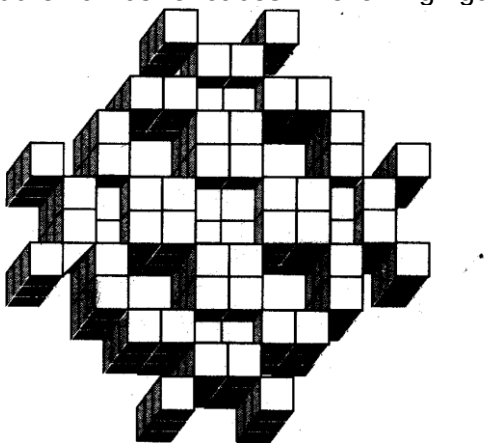
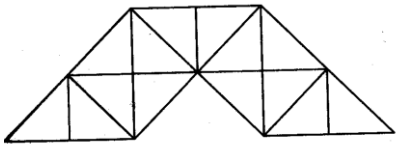
CHEMISTRY

3.	Multiple covalent bonds exist in a molecule of: (a) F_2 (b) N_2 (c) CH_4 (d) H_2
4.	A student mistakingly used a wet gas jar to collect sulphur dioxide. Which one of the following tests of the gas is likely to fail? a) odur b) effect on acidified $k_2Cr_2O_7$ solution c) solubility test d) none of these

MATHEMATICS

5.	If N is the sum of first 13986 prime numbers, the N is always divisible by a. 6 b. 4 c. 8 d. None of these
6	X takes 3 hours more than y to walk 30km. But is X doubles his pace, he is ahead of α by $1\frac{1}{2}$ hours. The speed of X is a. 5 km/hr b. 9 km/hr c. 9/7 km/hr d. 10/3 km/hr
7	The areas of two similar triangles are $81cm^2$ and $49cm^2$ respectively, then the ratio of their corresponding medians is a. 7:9 b. 9:81 c. 9:7 d. 81:7

MENTAL ABILITY

8	Count the number of cubes in following figure?  (a)144 (b)150 (c)158 (d)168
9.	**Statements:** (A) Some dogs are doors. (B) All doors are bats. **Conclusions:** **I.** Some dogs are bats. **II.** All dogs are bats. **III.** Some bats are dogs. **IV.** All bats are dogs. (a) All the conclusions follow (b) None of the conclusions follow (c) Only II and IV follow (d) Only I and III follow
10.	Count the number of triangles in the following figure:  (a)23 (b) 27 (c) 29 (d) 31