CV RAMAN ACADEMY
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Hunt for Junior CV Raman – 2024

CODE	24011

Class XI- ENGG

SAMPLE QUESTION PAPER

PHYSICS

1.	Which relation is wrong? (a) 1calorie= 4.18 joule (b) $1A^0= 10^{-10}$m (c) $1MeV=1.6x10^{-13}$Joule (d) 1 Newton=10^{-5} dyne
2.	A 4kg mass and a 1kg mass are moving with the equal kinetic energies. The ratio of their momentums is (a) 1:2 (b) 1:1 (c) 2:1 (d) 4:1

CHEMISTRY

3.	Which of the following is an example of super octet molecule? a) ClF_3 b) PCl_5 c) IF_7 d) All of these
4.	Which of the following bonds have lowest bond energy? a) C – C b) N – N c) H – H d) O – O

MATHEMATICS

5.	Which of the following is correct a) $\sin 1^0 > \sin 1$ b) $\sin 1^0 < \sin 1$ c) $\sin 1^0 = \sin 1$ d) $\sin 1^0 = \frac{\pi}{180}\sin 1$
6	The domain of $f(x) = \frac{\log_2(x+3)}{x^2+3x+2}$ is a)R – {-1,-2} b) $(-2,\infty)$ c) R –{-1,-2,-3} d) $(-3,-\infty)$ – {-1,-2}
7	Find the length of intercept , the circle $x^2+y^2+10x-6y+9=0$ makes on the x-axis ? a) 2 b) 14 c) 12 d) 8

MENTAL ABILITY

8	How many independent words can **'DETERMINATION'** be divided into without changing the order of the letters and using each letters only once? a) One b) Two c) Three d) none of these
9.	I am facing South. I turn right and walk 20 m. Then I turn Right again and walk 10 m. Then I turn left and walk 10 m and then turn right and walk 20 m. Then I turn right again and walk 60 m. In which direction am I from the starting point? a) North b) North-west c) East d) North-east
10.	**3265 : 4376 :: 4673:?** a) 2154 b) 3562 c) 5487 d) 5784