



IERT EXAM SAMPLE [QUESTION]

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SAMPLE QUESTION PAPER EXAM

Instruction: - Choose the most appropriate alternative of following question:

MATHEMATICS

Q 1. Volume of right cylinder is:

- (A) $\pi r^2 h$ (B) $\sqrt{3} p r^2 h$ (C) πr^2 (D) None of these

Q 2. The room is 30 meter X 18 meter. The cost of carpeting it at the rate of Rs. 2 per square meter will be:

- (A) 980 (B) 12000 (C) 800 (D) 1080

Q 3. The altitude AD of triangle ABC in which angle A is acute is 10 cm. if $BD = 10$ cm and $CD = 10\sqrt{3}$, what is angle of BAC?

- (A) 60° (B) 90° (C) 105° (D) 120°

PHYSICS & CHEMISTRY

Q 4. How will the period of oscillation of simple pendulum be arrested if it is moved from the surface of earth to a mine?

- (A) it will increase (B) it will decrease (C) it will not change (D) it will become zero

Q 5. An open pipe is suddenly closed with the result that, the second overtone of the closed pipe is found to be higher in frequency by 100 Hz, than the first overtone of the original pipe. The fundamental frequency of open pipe will be:

- (A) 100 Hz. (B) 300 Hz. (C) 150 Hz. (D) 200 Hz.

Q 6. A beam of light from air enters into water. Which of the characteristics of light will not change in water?

- (A) Wavelength (B) amplitude (C) velocity (D) frequency

Q 7. Which one of the following substances is formed when candle burns in chlorine?

- (A) HCl (B) H₂O (C) NaCl (D) KCl

Q 8. Which one of the following oxides is soluble in water?

- (A) Zinc oxide (B) calcium oxide (C) ferric oxide (D) ferrous oxide

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