

BOARD OF INTERMEDIATE & SECONDARY EDUCATION, SAHIWAL

SUBJECT: Physics EXAM HSSC (2nd Annual) 20 22 CLASS: XI
GROUP: I DATE: 21/12/22

(GENERAL INSTRUCTIONS FOR MARKING KEY)

Question No. 6: (a) One for statement and four for diagram and derivation

(b) $I_1 \omega_1 = I_2 \omega_2$; $T_2 = 6h$ (one for data/formula, two for putting values and calculating answer)

Question No. 7: (a) Five marks for calculating $v = \sqrt{\frac{8P}{3}}$ by indicating the Laplace assumption

(b) $P = \rho gh$, $P = 147 \text{ kPa}$; (one for data/formula, two for putting values and calculation)

Question No. 8: (a) One for definition, four for deriving relation for $T \& f$.

(b) $d \sin \theta = n \lambda$, $n = 5^{\text{th}}$ (one for data/formula and two for putting values and calculation)

Question No. 9: (a) One for definition, one for construction and ray diagram, three for calculating $M = \frac{f_o}{f_e}$.

(b) $\langle v \rangle = \sqrt{\frac{3kT}{m}}$, $\langle v \rangle = 493 \text{ m/s}$. (one for data/formula and two marks for putting values and calculating answer).

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تم نے درج بالا کے مطابق (اثنائے معروضی) اور دیات کے حوالے سے مکمل طور پر تفتیش کر لی ہے۔ کسی قسم کی کوئی غلطی نہیں ہے۔