

**পদার্থ বিজ্ঞান**  
**সাপ্তাহিক পরিক্ষা**  
**শিক্ষাবার্ষিকী - ২০২৩**

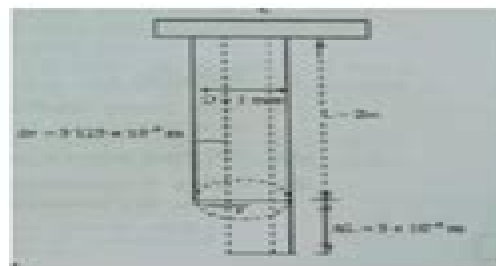
১। চিত্রে প্রদর্শিত একটি তামের সৈর্ষ প্রসারিত হওয়ায় পার্শ্ববিকৃতি ঘটেছে।

ক. স্থিতিস্থাপক সীমা কী?

খ. স্প্রিংয়ের ইয়াং এর মানকে  $2 \times 10^{11} \text{ Nm}^{-2}$  বলতে কী বোঝায়?

গ. চিত্রের তামটির উপস্থানের পরামিত্রের অনুপাত নির্ণয় কর।

ঘ. উক্ত তামের সৈর্ষবিকৃতির কারণে পার্শ্ববিকৃতি পর্য্যায় কতটুকু হলে স্প্রিং ফর্ম পাবে? পরিমিতিক ভাবে বিশ্লেষণ কর।



২। ল্যাবরেটরিতে সার্লির পরীক্ষিতে দুইজন ছাত্রকে যথাক্রমে  $0.6 \text{ mm} \times 0.5 \text{ mm}$  ব্যাসের ও  $L$  সৈর্ষের তামের ইয়াং এর গুণক নির্ণয় করতে দয়া হল। যথাক্রমে পরিমাপ নেয়ার পর দেখা গেল তামের দুই জনের ইয়াং এর গুণকের ফলাফল অতিশয়।

ক. শীতল কী?

খ. তামের পোকায় পানি ঢাললে তা তামের শাখা প্রসারায় পোকায় কীভাবে?

গ. তার দুটির ইয়াং এর গুণক  $2 \times 10^{11} \text{ Nm}^{-2}$ । ১ম তামের সৈর্ষ ১৫% বৃদ্ধি করতে প্রযুক্ত শীতল নির্ণয় কর।

ঘ. যেহেতু তার দুটির ব্যাস ভিন্ন সেহেতু ছাত্র দুজনের প্রাপ্ত ইয়াং এর গুণক এর মান অত্যন্ত হওয়া উচিত ছিল। তোমার উত্তরের সপক্ষে যুক্তি দেখাও।

সংক্ষিপ্ত প্রশ্ন

১. নিম্নলিখিত অনুর মধ্যে কী ধরনের বস্তু বিদ্যমান।

ক. আয়নিক      খ. সমযোজী      গ. ধাতব      ঘ. অণুত্যাগতত্ববাস

২. শীতলের মাত্রা কোনটি

ক.  $ML^{-3}T^{-2}$       খ.  $MLT$       গ.  $ML^{-3}T$       ঘ.  $MLT^{-2}$

৩. একটি তামের ইয়াং গুণক  $4 \times 10^{11} \text{ Nm}^{-2}$  তামটির সৈর্ষ ৭.৫% বৃদ্ধি করতে কি পরিমাণ শীতল প্রয়োগ করতে হবে।

ক.  $3 \times 10^{13} \text{ Nm}^{-2}$       খ.  $3 \times 10^{12} \text{ Nm}^{-2}$       গ.  $3 \times 10^{16} \text{ Nm}^{-2}$       ঘ.  $3 \times 10^{10} \text{ Nm}^{-2}$

৪. একটি তামের প্রস্থচ্ছেদের ক্ষেত্রফল  $০.০০০১ \text{ m}^2$  অংশীত্ব  $3.267 \times 10^5 \text{ Nm}^{-2}$  অংশ তার কত?

ক.  $9.8 \times 10^6$       খ.  $9.8 \times 10^3$       গ.  $9.8 \times 10^{20}$       ঘ.  $9.8 \times 10^{20} \text{ N}$

৫. (১)যদি বিকৃতি  $x$  এবং পার্শ্ববিকৃতির সৌপরিচয়তার অনুপাত  $\frac{x}{y}$  কোনটি।



# Kcse2013 Paper 2 Phycis

**Hussin A.Rothana**



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