দিনাজপুর বোর্ড

বহুনির্বাচনি অভীক্ষা
পদার্থবিজ্ঞান
প্রথম পত্র
[২০২৪ সালের সিলেবাস অনুযায়ী]
সময়—২৫ মিনিট
পূর্ণমান—২৫

বিষয় কোড : 1 7 4
সেট : ক

[বিশেষ দ্রষ্টব্য : সরবরাহকৃত বহুনির্বাচনি অভীক্ষার উত্তরপত্রে প্রশ্নের ক্রমিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বল পয়েন্ট কলম দ্বারা সম্পূর্ণ ভরাট কর। প্রতিটি প্রশ্নের মান ১। সকল প্রশ্নের উত্তর দাও।]

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া যাবে না।

১। স্ফেরোমিটারের সাহায্যে কোনো গোলীয় তলের বক্রতার ব্যাসার্ধ নির্ণয়ের সমীকরণ কোনটি? (যেখানে রাশিগুলি প্রচলিত অর্থ বহন করে।)

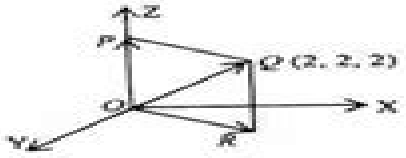
(ক) $R = \frac{d^2}{6h} + \frac{h}{2}$ (খ) $R = \frac{d^2}{6h} - \frac{h}{2}$
(গ) $R = \frac{d^2}{2h} + \frac{h}{6}$ (ঘ) $R = \frac{d^2}{2h} - \frac{h}{6}$

২। স্ফেরোমিটারের লঘিষ্ঠ ধ্রুবক হলো—
i. স্ফেরোমিটার ক্ষুদ্রতম যে দৈর্ঘ্য সঠিকভাবে পরিমাপ করতে পারে।
ii. বৃত্তাকার স্কেলকে একবার ঘুরালে রৈখিক স্কেল বরাবর যে সরণ হয়।
iii. স্ফেরোমিটারের পিচ এবং বৃত্তাকার স্কেলের ভাগসংখ্যার অনুপাত।

নিচের কোনটি সঠিক?
(ক) i ও ii (খ) i ও iii
(গ) ii ও iii (ঘ) i, ii ও iii

৩। নিচের কোনটি ভেক্টর রাশি?
(ক) ভর (খ) আয়তন
(গ) ক্ষেত্রফল (ঘ) টর্ক

৪। $\hat{i} \times (\hat{j} \times \hat{k}) = ?$
(ক) $\hat{i}$ (খ) 0
(গ) 1 (ঘ) $-\hat{i}$



উপরের চিত্রটি লক্ষ কর এবং ৫ ও ৬ নং প্রশ্নের উত্তর দাও।

৫। $\overrightarrow{OR}$ ভেক্টর নিচের কোনটি?
(ক) $2\hat{i} + 2\hat{j}$ (খ) $2\hat{j} + 2\hat{k}$
(গ) $2\hat{i} + 2\hat{k}$ (ঘ) $2\hat{i} + 2\hat{j} + 2\hat{k}$

৬। OPQR ক্ষেত্রের ক্ষেত্রফল নিচের কোনটি?
(ক) $\frac{1}{4}$ (খ) $\frac{1}{2}$
(গ) 1 (ঘ) 4

৭। রৈখিক ভরবেগের মাত্রা কোনটি?
(ক) MLT^{-2} (খ) MLT^{-1}
(গ) ML^2T^{-1} (ঘ) ML^2T^{-2}

৮। একটি বস্তুর ত্বরণ থাকবে কখন?
(ক) বেগ থাকলে
(খ) গতিশক্তি থাকলে
(গ) বল প্রযুক্ত থাকলে
(ঘ) ভরবেগ থাকলে

৯। ঘূর্ণায়মান একটি বস্তুর জড়তার ভ্রামক $2\ kg - m^2$। বস্তুটিকে $10^2 J$ ঘূর্ণন গতিশক্তিতে ঘুরাতে কত কৌণিক বেগের প্রয়োজন?
(ক) $10\ rads^{-1}$
(খ) $1 \times 10^2\ rads^{-1}$
(গ) $2 \times 10^2\ rads^{-1}$
(ঘ) $4 \times 10^2\ rads^{-1}$

নিচের উদ্দীপকটি পড়ে ১০ ও ১১ নং প্রশ্নের উত্তর দাও :
P ও Q স্থানে যথাক্রমে 9m এবং 16m ব্যাসার্ধের দুটি বাঁকের রাস্তা আছে। প্রত্যেকটি বাঁকের ব্যাংকিং কোণ 3°। (উভয় স্থানে রাস্তার প্রস্থ 5 m)

১০। Q স্থানে রাস্তার ভিতরের পার্শ্ব অপেক্ষা বাইরের পার্শ্ব কত উঁচু?
(ক) 0·003 m
(খ) 0·011 m
(গ) 0·262 m
(ঘ) 0·837 m

১১। P ও Q স্থানের রাস্তা দুটিতে কোনো গাড়ির সর্বোচ্চ গতিবেগের অনুপাত হবে—
(ক) $\sqrt{3} : \sqrt{4}$ (খ) 3 : 4
(গ) 9 : 16 (ঘ) 81 : 256

[পর পৃষ্ঠা দ্রষ্টব্য

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Liying Dong

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