

KUET ADMISSION TEST 2014-2015

[N.B: * চিহ্ন দেওয়া প্রশ্নগুলোর কুইজ তিন দিনের মধ্যে।]

Mathematics (MCQ)

01. একটি সামান্তরিকের ক্ষেত্রফল নির্ণয় কর যার কর্ণদ্বয় যথাক্রমে $\vec{A} = 3\hat{i} - 2\hat{j} + 5\hat{k}$ এবং $\vec{B} = \hat{i} + 6\hat{j} - \hat{k}$ ।
 (a) 10.95 units (b) 17.6 units (c) 17.66 units (d) 15.74 units (e) 18.97 units
 Solve: (c); $\vec{A} \times \vec{B} = -28\hat{i} + 8\hat{j} + 20\hat{k} \therefore |\vec{A} \times \vec{B}| = \sqrt{28^2 + 8^2 + 20^2} = 35.327$
 $\therefore \text{Area} = \frac{|\vec{A} \times \vec{B}|}{2} = 17.66 \text{ sq. unit.}$
02. একজন সাইকেল আরোহী ঘণ্টায় 24km বেগে 30m ব্যাসার্ধের একটি বৃত্তাকার পথে মোড় নিচ্ছে। তাঁকে উল্লম্বের সাথে কত কোণে হেলে থাকতে হবে?
 (a) $8^\circ 36'$ (b) $7^\circ 56'$ (c) $8^\circ 56'$ (d) $9^\circ 2'$ (e) $8^\circ 41'$
 Solve: (a); $V = 24 \text{ km/hr} = \frac{24}{3.6} \text{ ms}^{-1}$; $\tan \theta = \frac{V^2}{rg} = \frac{(\frac{24}{3.6})^2}{30 \times 9.8} = .15 \Rightarrow \theta = 8.59^\circ = 8^\circ 36'$
03. একটি পূর্ণাঙ্গ ঘণ্টার $25 \times 10^6 \text{ kg}$ পানি 50m গভীর কুয়া থেকে তুলতে পারে। পাম্পের ক্ষমতা 70% কার্যকর হলে প্রকৃত ক্ষমতা কত?
 (a) 4.06MW (b) 4.86MW (c) 2.38MW (d) 420MW (e) 238MW
 Solve: (b); $P \times \frac{70}{100} = \frac{mgh}{t} = \frac{25 \times 10^6 \times 9.8 \times 50}{60 \times 60} \Rightarrow P = 4.86 \text{ MW}$
04. 30°C তাপমাত্রায় কিছু পরিমাণ চন্দ্র বায়ুকে আকসিতভাবে আয়তনের অর্ধেকে সংকুচিত করা হল। চূড়ান্ত তাপমাত্রা কত? [$\gamma = 1.4$]
 (a) 122.9°C (b) 410K (c) 126.81°C (d) 395.6K (e) 127°C
 Solve: (c); $T_1 V_1^{\gamma-1} = T_2 V_2^{\gamma-1} \Rightarrow 303 \times 2^{1.4} = T_2 \times 1^{1.4} \Rightarrow T_2 = 399.81 \text{ K} = 126.81^\circ \text{C}$
05. 1.4m দীর্ঘ এবং 10^{-6} m^2 প্রস্থচ্ছেদের একটি সুদৃশ্য দণ্ডের তার তৈরি $4 \times 10^{-3} \text{ m}$ প্রসারিত করতে সম্পাদিত কাজের পরিমাণ কত? [$\gamma = 2 \times 10^{11} \text{ N/m}^2$]
 (a) 1.066J (b) 1.143J (c) 1.15 N/m^2 (d) 1.143 N/m^2 (e) 1.066 N/m^2
 Solve: (b); $W = \frac{\gamma A \Delta L^2}{2L} = \frac{2 \times 10^{11} \times (4 \times 10^{-3})^2}{2 \times 1.4} = 1.143 \text{ J}$
06. পৃথিবীর ভর চন্ড্রের ভরের 80 গুণ এবং তাদের ব্যাসার্ধ যথাক্রমে 12800km এবং 3200km। চন্ড্র পৃষ্ঠের অভিকর্ষজ ত্বরণের মান কত?
 (a) 163 cm/s^2 (b) 1.7 m/s^2 (c) 196 cm/s^2 (d) 1.9 m/s^2 (e) 1.64 m/s^2
 Solve: (c); $g = \frac{GM}{R^2} \Rightarrow \frac{g_m}{g_e} = \frac{M_m R_e^2}{M_e R_m^2} \Rightarrow \frac{g_m}{9.8} = \frac{1 \times 12800^2}{80 \times 3200^2} \Rightarrow g_m = 1.96 \text{ ms}^{-2} = 196 \text{ cms}^{-2}$
07. একটি শব্দ তরঙ্গ উৎসের বিস্তার 0.25cm এবং কম্পাঙ্ক 400Hz। বাতাসে শব্দের বেগ 332m/s এবং বায়ুর ঘনত্ব 1.293 kg/m^3 হলে প্রতি সেকেন্ডে প্রতি বর্গমিটারে প্রবাহিত শক্তি কত?
 (a) 8.5 kW/m^2 (b) 8.99 kW/m^2 (c) 8.99 W/m^2 (d) 8.47 W/m^2 (e) 8.47 kW/m^2
 Solve: (e); $I = 2\pi^2 f^2 a^2 \rho v = 2 \times \pi^2 \times 400^2 \times \left(\frac{.25}{100}\right)^2 \times 1.293 \times 332 = 8.47 \text{ kW/m}^2$
08. একটি প্রেনিককে শব্দের তীব্রতা 10^{-7} W/m^2 । শব্দের তীব্রতা বিঘণ হলো তীব্রতা সেকেন্ড কত হবে?
 (a) 53 dB (b) 53.01 dB (c) 55.06 dB (d) 53.02 dB (e) 56.93 B
 Solve: (b); $\beta = 10 \log \frac{10^{-7} \times 2}{10^{-12}} = 53.01 \text{ dB}$

Kuet Admission Question

CO Houle



Kuet Admission Question:

The Northwestern Reporter ,1918 Parliamentary Debates Malaya. Parliament. House of Representatives,1967

The Gardeners' Chronicle and Agricultural Gazette ,1854 **The Malayan Law Journal** ,1981 **The Digest** ,2004 171 Answers Mark Stucker,2017-10-05 *Questions and Answers about Admission to the University of*

Washington University of Washington,1965 **College Admission 101** The Princeton Review,Robert Franek,2018-06-12

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Rudman,National Learning Corporation,1981 *College Admission Essentials* Ethan Sawyer (College essay expert),2020 What if you could take control of the admissions process as you apply for your dream school and do it in a way that s both effective and empowering From filling out your extracurriculars to interviewing with admissions staff it comes down to two questions What matters most to you How does it manifest in your life The answers to these questions will fuel every aspect of your college admissions experience and Ethan Sawyer the College Essay Guy along with advice from dozens of top admissions experts will help you stand out against the toughest competition **Admission to College by Certificate**

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