

## DU\_KA ADMISSION TEST 2021-22

## Physics (MCQ)

০১. একটি 3 মানের ভেক্টরকে একটি 4 মানের ভেক্টরের সাথে যোগ করলে লব্ধি ভেক্টরের মান নিচের কোনটি হবে না?  
(a) 0 (b) 1 (c) 3 (d) 5
০২. একটি ক্রান্তের ব্যাপ্তিকে ট্রেনে এর সৈন্যে  $x$  পরিমাণ বৃদ্ধি করলে, ক্রান্তের ব্যাপ্তি  $F = ax + bx^2$  (এখানে  $a$  এবং  $b$  ধ্রুবক)। ক্রান্তের ব্যাপ্তিকে  $x = 0$  থেকে  $x = L$  পর্যন্ত বৃদ্ধি করতে কৃত কাজের মান কত?  
(a)  $aL^2 + bLx^3$  (b)  $aL^2/2 + 2bL^2$  (c)  $a + 2bL$  (d)  $aL^2/2 + bL^2/3$
০৩.  $6 \frac{d^2x}{dt^2} + 150x = 0$  তরঙ্গের বৈশিষ্ট্য কত?  
(a) 6 (b) 5 (c) 25 (d) 150
০৪. একটি ইলেকট্রনকে  $V$  বিভব পার্থক্যের মধ্যে রাখলে, ইলেকট্রনের বেগ  $v$  এবং প্রযুক্ত বিভব পার্থক্যের মধ্যে সম্পর্ক কোনটি?  
(a)  $v = \sqrt{\frac{eV}{m}}$  (b)  $v = \sqrt{\frac{2eV}{m}}$  (c)  $v = \frac{eV}{m}$  (d)  $v = \frac{1}{2} mV^2$
০৫. শূন্য ভর এবং  $E$  শক্তিবিশিষ্ট একটি কণার ভরবেগ কোনটি?  
(a)  $\sqrt{EC}$  (b)  $\frac{E}{C}$  (c)  $Ec$  (d) শূন্য (0)
০৬. একটি রাসায়নিকের সোডিয়াম সিলিং এবং মেথেন অণুরক পদার্থ নিয়ে তৈরি। রাসায়নিক একটি সাধারণ রেডিয়োকেটের পরজাতি হলে তা চালু রাখা হলে রাসায়নিকের তাপমাত্রা-  
(a) কমবে (b) স্থির থাকবে (c) বাড়বে (d) প্রথমে বাড়বে তারপর কমবে
০৭. একটি প্রত্যাবর্তী চক্রাকার প্রক্রিয়ার এক চক্রের পরে নিচের কোনটি শূন্য নাও হতে পারে? (এখানে  $U$  = অন্তর্স্থ শক্তি,  $P$  = গাণ,  $W$  = সিস্টেমের দ্বারা কৃত কাজ,  $S$  = এনট্রপি)  
(a)  $\Delta U$  (b)  $\Delta W$  (c)  $\Delta P$  (d)  $\Delta S$
০৮. একটি ব্যাটারির মধ্যে তড়িৎ প্রবাহ। দ্বারা প্রকাশ করা হয়। এই ব্যাটারির তড়িৎচালক বল, এর দুই প্রান্তের বিভব পার্থক্যের সমান কখন হবে?  
(a) সবসময় (b) কখনোই না (c) শুধুমাত্র যখন  $I = 0$  (d) শুধুমাত্র যখন  $I =$  ধ্রুবক
০৯. ইয়াং-এর দ্বি-চিহ্ন পরীক্ষায় চিহ্ন-দ্বয়ের মধ্যবর্তী দূরত্ব দ্বিগুণ করা হলো। পর্দার প্রতি একক সৈন্যে উজ্জ্বল রেখার সংখ্যা স্থির রাখতে হলে চিহ্ন থেকে পর্দার দূরত্ব  $D$  কে কীভাবে পরিবর্তন করতে হবে?  
(a)  $\frac{D}{2}$  (b)  $\sqrt{2}D$  (c)  $2D$  (d)  $\frac{D}{\sqrt{2}}$
১০. একটি ব্রিজ রেডিওর বর্তনীর ইনপুট সংকেতের কম্পাঙ্ক 50 Hz হলে এর আউটপুট সংকেতের কম্পাঙ্ক কত হবে?  
(a) 220 Hz (b) 50 Hz (c) 25 Hz (d) 100 Hz
১১. বুটের একটি বড় ফেনি তেজে অশ্লেকতলো ছোট ফেনিমা পরিণত হলে, বড় ফেনিটির তুলনায় ছোট ফেনিটির সমষ্টিগত ক্ষেত্রফল-  
(a) হ্রাস পাবে (b) বৃদ্ধি পাবে (c) অপরিবর্তিত থাকবে (d) কোনোটাই না
১২. একটি বস্তুত্বের মোট শক্তি এর স্থির ভর শক্তির দ্বিগুণ। আলোর দ্রুতি  $c$  হলে, কণটির দ্রুতি কত?  
(a)  $\frac{2c}{\sqrt{3}}$  (b)  $\frac{2c}{3}$  (c)  $c$  (d)  $2c$
১৩.  $m$  ভরের একটি বস্তু একটি অনুচুম্বিক শিঙা-এর সাথে সংযুক্ত আছে, শিঙাটি  $A$  পরিমাণ প্রসারিত করে ছেড়ে দেওয়া হলে এটি  $T$  পর্যায়কাল নিয়ে ঘর্ষণহীন তলে স্পন্দিত হতে থাকল। যদি বস্তুর ভর  $4m$  করা হয় তবে নতুন পর্যায়কাল কত হবে?  
(a)  $2T$  (b)  $T$  (c)  $4T$  (d)  $\frac{T}{4}$
১৪. একটি সুতার একপ্রান্তে একটি বস্তুকে বেঁধে উল্লম্বভাবে বৃত্তাকার গতি ঘুরানো হচ্ছে। বৃত্তের সর্বোচ্চ বিন্দুতে বস্তুর বেগ  $\sqrt{3gr}$  ( $r$  = বৃত্তের ব্যাসার্ধ এবং  $g$  অভিকর্ষজ ত্বরণ) হলে, বৃত্তের সর্বোচ্চ এবং সর্বনিম্ন বিন্দুতে সুতার টানের অনুপাত কত হবে?  
(a) 1:2 (b) 1:3 (c) 3:1 (d) 1:7
১৫.  $6\Omega$  এবং  $12\Omega$  মানের দুইটি রোধ সমান্তরালে সংযুক্ত আছে। এই সমান্তরাল সংযোগকে একটি  $4\Omega$  মানের রোধ এবং  $24V$  ব্যাটারির সাথে সিরিজে সংযুক্ত করা হলো। উক্ত সংযোগে  $6\Omega$  রোধের ভিতরে প্রবাহিত তড়িৎ-এর পরিমাণ কত?  
(a)  $2A$  (b)  $3A$  (c)  $6A$  (d)  $12A$

# Du Ka Unit Question Solved 2013

**DJ Losen**



**Du Ka Unit Question Solved 2013:**

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