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বিষয় : পদার্থবিজ্ঞান ২য় পত্র (বহুনির্বাচনি)

বিষয় কোড : ১ ৭ ৫

পূর্ণমান : ২৫

সময় : ২৫ মিনিট

[বিশেষ নোট : সরবরাহকৃত বহুনির্বাচনি অঙ্কিত উত্তরপত্রের প্রস্তাবিত সঠিক উত্তরগুলির বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরগুলি সঠিকভাবে কালম হারা সম্পূর্ণ ভরাট কর। প্রতিটি প্রশ্নের মান-১]

১. বিদ্যুৎ-চৌম্বক সংঘটিত হলে—
 (a) মহাকাশে (b) পৃথিবীতে (c) সৌরজগতে (d) সবত্র
২. কোন কণা "সিঁদুর কণা" নামে পরিচিত?
 (a) বোসন কণা (b) মেসন কণা
 (c) হিগস-বোসন কণা (d) স্লেপটন কণা
৩. সূর্য প্রতি সেকেন্ডে শক্তি বিকিরণ করে—
 (a) $4 \times 10^{26} \text{ J}$ (b) $4 \times 10^{27} \text{ J}$
 (c) $4 \times 10^{28} \text{ J}$ (d) $4 \times 10^{29} \text{ J}$
৪. PN জংশন অ্যাপ্লিকেশন—
 i. বিকিরণ হিসেবে ii. একদুই কারক হিসেবে
 iii. ভোল্টেজ স্থিতিস্থাপক হিসেবে
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
৫. কুলম্বিয়ান ইন্টারঅাকশন অনুযায়ী $\frac{1}{r}$ এর মান কত?
 (a) 0 (b) 1 (c) T (d) -1
৬. $I_a = 0.05 \text{ mA}$, $I_c = 2 \text{ mA}$ হলে $\beta = ?$
 (a) 40 (b) 50 (c) 0.04 (d) 0.2
৭. বোলের হাইড্রোজেন মডেল অনুযায়ী কৃত্রিম বোর কক্ষের ব্যাসার্ধ প্রথম বোর কক্ষের ব্যাসার্ধ কতগুন—
 (a) $\frac{1}{9}$ গুন (b) $\frac{1}{3}$ গুন (c) 3 গুন (d) 9 গুন
৮. বেডনের অর্ধায়ু 3.82 দিন। বেডনে—
 i. তেজস্ক্রিয় ক্রমবর্ধমান 0.00000025%
 ii. $\frac{1}{20}$ অংশ অপরিবর্তিত থাকবে 16.54 দিন পর
 iii. তেজস্ক্রিয় ক্রমবর্ধমান 0.18125%
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
৯. সেলিয়ামের সূচক তরঙ্গ দৈর্ঘ্য $6800 \text{ \AA}$ হলে এর কার্যপেক্ষ কত?
 (a) 1.83 eV (b) 1.81 eV (c) 1.9 eV (d) 1.6 eV
১০. একদুই—
 i. তড়িৎচৌম্বকীয় তরঙ্গ
 ii. তড়িৎচৌম্বকীয় দ্বারা বিকিরণ হয়
 iii. আলোর বেগে চলে
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
১১. ভরশক্তির সম্পর্ক হলো—
 (a) $E = \frac{m}{c}$ (b) $E = \frac{c}{m}$ (c) $E = mvc^2$ (d) $E = mc^2$
১২. একটি ইলেকট্রন 0.99c দ্রুতিতে গতিশীল হলে এর ভরমান কত কত?
 (a) $5.46 \times 10^{-30} \text{ Kg}$ (b) $6.45 \times 10^{-30} \text{ Kg}$
 (c) $6.45 \times 10^{-31} \text{ Kg}$ (d) $5.46 \times 10^{-31} \text{ Kg}$
১৩. আলোর ব্যতিক্রমের শর্ত—
 i. আলোক উৎস দুটি সুসঙ্গত হতে হবে
 ii. উৎস দুটি ক্ষুদ্র ও সুস্থ হতে হবে
 iii. উৎস দুটি পরস্পর থেকে দূরে হতে হবে
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
১৪. একটি তরঙ্গের দুটি বিন্দুর মধ্যে দশা পার্থক্য $\frac{\pi}{2}$ বিন্দুদ্বয়ের পথ পার্থক্য কত?
 (a) $\frac{\lambda}{2}$ (b) $\frac{\lambda}{4}$ (c) $\frac{3\lambda}{4}$ (d) λ
১৫. একটি ন্যূনতম দূরত্বের তরঙ্গের অভিলম্ব ও অভিমুখের কোণের দূরত্ব যথাক্রমে 0.5m ও 0.05 m।
 উদ্দীপকটি পড়ে ১৫ ও ১৬ নং প্রশ্নের উত্তর দাও।
১৬. দ্রুতির বিকিরণ কত?
 (a) 10 (b) 12 (c) 16 (d) 20
১৭. দ্রুতির নলের দৈর্ঘ্য কত?
 (a) 0.60 m (b) 0.50 m (c) 0.55 m (d) 0.64 m
১৮. স্বতন্ত্র আবেশ গুলোর একটি—
 i. H ii. WbA^{-1} iii. VA^{-1}
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
১৯. 
 উদ্দীপকে কোন কোন সময়ে E এর মান সর্বোচ্চ হবে?
 (a) 0.3T (b) $\frac{T}{4}$ ও $\frac{3T}{4}$ (c) $\frac{T}{2}$ ও T (d) $\frac{T}{2}$ ও $\frac{3T}{4}$
২০. 220V উৎসের শীর্ষমান—
 (a) 100V (b) 220V (c) 311V (d) 440V
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 (a) qE (b) $q(V \times B)$
 (c) $q(E \times V \times B)$ (d) $q(E + V \times B)$
২২. তিনজনের সূত্র হলো—
 i. $\sum r = e$ ii. $\sum r = 0$ iii. $\sum i = 0$
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
২৩. 
 I এর মান কত?
 (a) 2.2 A (b) 0.2 A (c) 2 A (d) 1.8 A
২৪. একটি তড়িৎ ঘ্রমেতর চার্জের দুটির পরিমাণ কত হবে?
 (a) $2 \times 10^{-19} \text{ C}$ ও $8 \times 10^{-19} \text{ C}$ (b) $6 \times 10^{-19} \text{ C}$ ও $-4 \times 10^{-19} \text{ C}$
 (c) $5 \times 10^{-19} \text{ C}$ ও $-5 \times 10^{-19} \text{ C}$ (d) $3 \times 10^{-19} \text{ C}$ ও $7 \times 10^{-19} \text{ C}$
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 উদ্দীপকটি পড়ে ২৪ ও ২৫ নং প্রশ্নের উত্তর দাও।
২৬. শীতল আধারের তাপমাত্রা কত?
 (a) 150 K (b) 300 K (c) 600 K (d) 2400 K
২৭. ইন্ট্রিটির দক্ষতা কত?
 (a) 44% (b) 75% (c) 60% (d) 50%

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Asking questions is a sign of INTELLIGENCE ... bacteria) nitrogen fixing plant eg pea, clover bacteria. Nitrogen in the air ...

5.4.1 Plant Responses - 5.4.1 OCR bio notes Absciscic acid Inhibit seed germination and growth of stems. Ethene Promotes fruit ripening. The cell wall around a plant cell limits the cell's ability to divide ... NUTRIENT SIMBIO LAB.docx - Course Hero

Nutrient Pollution : SIMBIO VIRTUAL LABS Exercise 1: Starting up [4.1] :The species in the simulation which causes nitrogen fixation is Cyanobacteria [4.2] ... Nutrient Pollution - SimBio This tutorial-style lab features engaging experimental systems for students to investigate how and why eutrophication and biomagnification of toxins can result ... ST NutrientPollutionWB 2020.pdf - SimBio Virtual Labs SimBio Virtual Labs® EcoBeaker®:Nutrient Pollution NOTE TO STUDENTS: This workbook accompanies the SimBio Virtual Labs® Nutrient Pollution laboratory. Nutrient Pollution (WB) - SimBio In this lab, students explore eutrophication and bioaccumulation of toxins by experimenting with inputs to a lake containing phytoplankton, zooplankton, ... Lab Exam- Nutrient Pollution Flashcards - Quizlet Study with Quizlet and memorize flashcards containing terms like Why is exposure to high mercury levels in the fish we eat such a health concern for humans ... BI 101: Lab: (U2 M2) SimBio Virtual Lab Nutrient Pollution In this Lab you will be (virtually) transported back in time to the early 1950s, when many cities were experiencing a post-war population boom. Nutrient Pollution Worksheet Exercise 1 - Studocu Provide a biological explanation for your answer. Since phosphorus is a limiting nutrient, when the level of phosphorus increases it increases the green algae ... ch-15-study-guide_freshwater-systems.docx The answers can be found in the Simbio Nutrient Pollution Virtual Lab Introduction (Posted on the APES Lecture and Review Materials Page - password needed), and ... SimBio Virtual Labs Liebig's Barrel and Limiting | Chegg.com Feb 19, 2022 — Explain your results in terms of limiting nutrients and Tilman's resource competition model. * HINT: Do all three species share the same ... Anesthesia Technologist Skills Checklist Anesthesia Technologist Skills Checklist ; Proper identification/labeling of all lab or specimen results, 123 ; Pre-procedural time-out process, 123 ; Demonstrate ... Anesthesia Technician Skills Checklist Tool & Resources This tool is designed to promote the assessment and documentation of competency and contains core skills assigned to the role of Anesthesia Technician. 15 Anesthesia Technician Skills For Your Resume Three common anesthesia technician soft skills are integrity, listening skills and physical stamina. After you find the anesthesia technician skills you need, ... SKILLS CHECKLISTS ANESTHESIA TECH COMPETENCY SKILLS CHECKLIST.htm, May 19th 2022 at 10:52am ... PHARMACY TECHNICIAN SKILLS COMPETENCY CHECKLIST.htm, May 19th 2022 at 10:52am. Anesthesia Technician Skills Checklist - Fill Online ... Here is a skills checklist for anesthesia technicians: 1. Knowledge of anesthesia equipment: Understanding the different types of anesthesia machines, monitors, ... Anesthesia Tech Skills Checklist Instructions: Please rate your experience / frequency (within the last year) using the following scale (check the appropriate boxes below):. Focused competencies give anesthesia technicians a leg ... Nov 11, 2014 — The competency checklists also provide a baseline for information used in orientation of new anesthesia technicians. Training on the job. ANESTHESIA_TECH_COMPET...

Instructions: This checklist is meant to serve as a general guideline for our client facilities as to the level of your skills within your nursing specialty. Anesthesia Technology (AS - 1351999901) Complete hospital annual competency checklist which may include Auto transfusion; Stat lab; ACT; Waste Gas Survey; laser safety; Bronchoscope cleaning and ...