

২০১৫ সালের এসএসসি পরীক্ষা : মডেল টেস্ট

পদার্থবিজ্ঞান (বহুনির্বাচনি অংশ)

পূর্ণমান : ৩৫; সময় : ৩৫ মিনিট

- ১। কে সর্বপ্রথম তড়িৎ প্রবাহের চৌম্বক ক্রিয়া লক্ষ করেন?
ক. ওয়েরস্টেড খ. হেনরি গ. লেনজ ঘ. ফ্যারাডে
- ২। নিচের কোনটি মৌলিক রাশি নয়?
ক. তড়িৎ খ. দীপন তীব্রতা গ. দীপন ক্ষমতা ঘ. তাপমাত্রা
- ৩। 0.1 mm ভার্নিয়ার স্ক্রুবকবিশিষ্ট ড্রাইভ ক্যালিপারের ভার্নিয়ার মোট ভাগসংখ্যা কত?
ক. 10 ঘর খ. 20 ঘর গ. 40 ঘর ঘ. 50 ঘর
- ৪। 10 ms^{-2} সমবেগে চলমান 5 kg বস্তুর 5 sec পর ত্বরণ কত হবে?
ক. 2 ms^{-2} খ. 0 ms^{-2} গ. 12 ms^{-2} ঘ. 10 ms^{-2}
- ৫। একটি বস্তুর কত বেগে ওপরের দিকে নিক্ষেপ করলে তা 6 সেকেন্ড পর ভূপৃষ্ঠে পতিত হবে?
ক. 19.6 ms^{-1} খ. 39.2 ms^{-1} গ. 49 ms^{-1} ঘ. 29.4 ms^{-1}
- ৬। কোনটির কারণে নিউক্লিয়াসে অস্থিতিশীলতা সৃষ্টি হয়?
ক. তড়িত চৌম্বক বল খ. দুর্বল নিউক্লীয় বল
গ. সবল নিউক্লীয় বল ঘ. মহাকর্ষ বল
- ৭। আমাদের ওজন কোন বলের ফল?
ক. মহাকর্ষ খ. তড়িত গ. নিউক্লীয় বল ঘ. চৌম্বক বল
- ৮। বল ও সময়ের গুণফলকে কী বলা হয়?
ক. ভরবেগ খ. ক্রিয়াবল গ. প্রতিক্রিয়া বল ঘ. বলের ঘাত
- ৯। আলোর বেগ পরিমাপ করেন কে?
ক. কেপলার খ. রোমার গ. হাইগেন ঘ. কোপারনিকাস
- ১০। নিউক্লীয় বিক্রিয়ায় একটন ইউরেনিয়াম থেকে যে শক্তি পাওয়া যায়, তা কত টন কয়লা পুড়িয়ে পাওয়া যাবে?
ক. 8 টন খ. ৬ লাখ টন গ. ৮ লাখ টন ঘ. ১০ লাখ টন
- ১১। এক ব্যক্তি ২ মিনিটে একটি বস্ত 4 m উঁচুতে তুলতে পারেন। আরেক জন ১ মিনিটে এই বস্তুটিকে একই উঁচুতায় তুলতে পারেন। তাঁদের ব্যয়িত শক্তি—
i. তিন ii. একই iii. দ্বিতীয় জনের বেশি
কোনটি সঠিক? ক. i খ. iii গ. ii ঘ. i ও iii
- ১২। 1 cm^{-3} আয়তনের পানির ওজন কত?
ক. 1000 gm খ. 1 gm গ. 5 gm ঘ. 5 অউণ
- ১৩। বরফের ঘনত্ব কত?
ক. 5 kgm^{-3} খ. 780 kgm^{-3} গ. 920 kgm^{-3} ঘ. 5.29×10^3
- ১৪। 1 লিটার পানি বরফে পরিণত হলে এর আয়তন কত?
ক. ১১/১২ লিটার খ. ১২/১১ লিটার
গ. ১/১২ লিটার ঘ. ১ লিটার
- ১৫। যে তাপমাত্রায় প্রমাণ চাপে বিতরু পানি জলীয়বাষ্পে পরিণত হয়, তাকে কী বলে?
ক. উষ্ণবিন্দু খ. স্ফটনিক গ. বাষ্পবিন্দু ঘ. গলনাঙ্ক
- ১৬। নিচের কোনটি দর্পনের মত কাজ করে?
ক. পানি খ. মসূন বরফ গ. চশমা ঘ. ইটের দেয়াল
- ১৭। চাপ বাড়ালে মোমের গলনাঙ্ক কেমন হয়?
ক. কমে খ. বাড়ে গ. অপরিবর্তিত থাকে ঘ. চাপের ওপর নির্ভরশীল নয়
- ১৮। শব্দের তীব্রতা তরঙ্গ বিস্তারের—
ক. সমানুপাতিক খ. বর্গমূলের সমানুপাতিক গ. বর্গের সমানুপাতিক ঘ. ব্যতানুপাতিক
- ১৯। কোন ধরনের বায়ুতে শব্দের বেগ বেশি?
ক. শুষ্ক বায়ু খ. ভেজা বায়ু গ. হালকা বায়ু ঘ. শীতল বায়ু
- ২০। গতির সামগ্রিক অবস্থা বলতে বোঝায়—
i. গতির দিক ii. সরণ iii. বেগ
নিচের কোনটি সঠিক?
ক. i খ. ii গ. ii ও iii ঘ. i, ii ও iii
- ২১। সরল পেরিস্কোপে ব্যবহৃত দুটি সমতল দর্পনের মধ্যবর্তী কোণ কত?
ক. 90° খ. 270° গ. 360° ঘ. 180°
- ২২। লক্ষের সার্চলাইটে ব্যবহৃত হয়—
ক. উত্তল দর্পণ খ. অবতল দর্পণ
গ. সমতল দর্পণ ঘ. সমতল-উত্তল দর্পণ

- ২৩। দাঁতের ক্ষত দেখার দর্পণ কোনটি?
ক. সমতল দর্পণ খ. অবতল দর্পণ
গ. উত্তল দর্পণ ঘ. প্রিজম
- ২৪। অপটিক্যাল ফাইবারের আবরণের প্রতিসরাঙ্ক কত?
ক. 1.33 খ. 1.63 গ. 1.7 ঘ. 1.5
- ২৫। লেন্সের ক্ষমতার মাত্রা কোনটি?
ক. $\text{ML}^{-2}\text{T}^{-3}$ খ. L^{-1} গ. L^{-2} ঘ. F^{-1}
- ২৬। বিতরের একক কী?
ক. NC^{-1} খ. JC^{-1} গ. JC ঘ. CJ^{-1}
- ২৭। নিচের কোনটির বাতর কোনো অতিক্রম নেই?
ক. ইলেকট্রন খ. নিউক্লিয়াস
গ. বলরেখা ঘ. প্রোটন
- ২৮। কোনটির মধ্যে মুক্ত ইলেকট্রন থাকে না?
ক. পরিবাহী খ. অপরিবাহী
গ. অর্ধপরিবাহী ঘ. সুপরিবাহী
- ২৯। ভোল্টমিটার বর্তনীতে কীভাবে যুক্ত থাকে?
ক. সমান্তরালে খ. অনুক্রমিক
গ. পাশাপাশিভাবে
ঘ. আড়াআড়িভাবে
- ৩০। পরিবাহকের দুই প্রান্তের বিভবভার বজায় রাখার জন্য অনবরত কিসের জোপান দেওয়া প্রয়োজন?
ক. বিভবের খ. আধানের
গ. ইলেকট্রনের ঘ. তড়িৎ শক্তির
- ৩১। নিউটনের প্রথম সূত্র থেকে কী কী বিষয়ের ধারণা পাওয়া যায়?
ক. বল খ. জড়তা গ. বল ও জড়তা
ক. জড়তা ও ভরবেগ
- ৩২। নিচের কোনটি ভায়া চুম্বক পদার্থ?
ক. লোহা খ. টিন
গ. অ্যালুমিনিয়াম ঘ. তামা
- ৩৩। অস্থায়ী চুম্বক তৈরির জন্য সাধারণত কোন সংকর ধাতু ব্যবহৃত হয়?
ক. পারমাণবিক খ. এলনিকো
গ. ফেরাইট
ঘ. নিয়োভিয়াম বোরন আয়রন
- ৩৪। একটি ট্রান্সফরমারের মুখ্য কুণ্ডলীর পাকসংখ্যা 30 ভোল্টেজ 210 V এর মৌল কুণ্ডলীর ভোল্টেজ 700 V হলে পাকসংখ্যা কত?
ক. 30 খ. 200 গ. 100 ঘ. 300
- ৩৫। চৌম্বক ক্রিয়া দ্বারা তড়িৎ প্রবাহ সৃষ্টির ধারণা কোন বিজ্ঞানী দিয়েছিলেন।
ক. ওয়েরস্টেড খ. ফ্যারাডে
গ. নিউটন ঘ. ওহম।

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Table of Contents Jsc Psc English Short Suggestion2015 Bd

1. Understanding the eBook Jsc Psc English Short Suggestion2015 Bd
 - The Rise of Digital Reading Jsc Psc English Short Suggestion2015 Bd
 - Advantages of eBooks Over Traditional Books
2. Identifying Jsc Psc English Short Suggestion2015 Bd
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Jsc Psc English Short Suggestion2015 Bd
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jsc Psc English Short Suggestion2015 Bd
 - Personalized Recommendations
 - Jsc Psc English Short Suggestion2015 Bd User Reviews and Ratings
 - Jsc Psc English Short Suggestion2015 Bd and Bestseller Lists
5. Accessing Jsc Psc English Short Suggestion2015 Bd Free and Paid eBooks
 - Jsc Psc English Short Suggestion2015 Bd Public Domain eBooks
 - Jsc Psc English Short Suggestion2015 Bd eBook Subscription Services
 - Jsc Psc English Short Suggestion2015 Bd Budget-Friendly Options
6. Navigating Jsc Psc English Short Suggestion2015 Bd eBook Formats

- ePub, PDF, MOBI, and More
 - Jsc Psc English Short Suggestion2015 Bd Compatibility with Devices
 - Jsc Psc English Short Suggestion2015 Bd Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Jsc Psc English Short Suggestion2015 Bd
 - Highlighting and Note-Taking Jsc Psc English Short Suggestion2015 Bd
 - Interactive Elements Jsc Psc English Short Suggestion2015 Bd
 8. Staying Engaged with Jsc Psc English Short Suggestion2015 Bd
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Jsc Psc English Short Suggestion2015 Bd
 9. Balancing eBooks and Physical Books Jsc Psc English Short Suggestion2015 Bd
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Jsc Psc English Short Suggestion2015 Bd
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Jsc Psc English Short Suggestion2015 Bd
 - Setting Reading Goals Jsc Psc English Short Suggestion2015 Bd
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Jsc Psc English Short Suggestion2015 Bd
 - Fact-Checking eBook Content of Jsc Psc English Short Suggestion2015 Bd
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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