

বহুনির্বাচনি অধীক্ষা

কক্ষ ও যোগাযোগ প্রযুক্তি

[২০২৩ সালের নিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

ঢাকা বোর্ড

বিষয় কোড:

2 7 5

সেট :

৫

বিশেষ প্রটিকা: সরবরাহকৃত বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রশ্নের ক্রমিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বস পয়েন্ট কলাম দ্বারা সম্পূর্ণ করাট করা। প্রতিটি প্রশ্নের মান ১।

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া যাবে না।

১। $(5A)_{16}$ এর পরের সংখ্যাটি কত?

- (ক) $(6A)_{16}$
☒ (খ) $(5B)_{16}$
 (গ) $(91)_{16}$
 (ঘ) $(90)_{16}$

২। নেটওয়ার্কিংয়ের উদ্দেশ্য হলো—

- I. ইনফরমেশন শেয়ার
 II. সম্ভটওয়ার শেয়ার
 III. হার্ডওয়ার শেয়ার

নিচের কোনটি সঠিক?

- (ক) I ও II
☒ (খ) I ও III
 (গ) II ও III
☒ (ঘ) I, II ও III

চিহ্নটি লক্ষ্য কর এবং ৩ ও ৪ নম্বর প্রশ্নের উত্তর দাও:



৩। 'Y' এর মান কোনটি?

- (ক) $A + B$
 (খ) $\overline{A}B$
☒ (গ) $A + \overline{B}$
 (ঘ) $A \oplus B$

৪। উদ্ভীপকের বর্তনীটির আউটপুট $Y = 1$ পেতে হলে A ও B-এর ইনপুট কত নিতে হবে?

- ☒ (ক) $A = 0$ ও $B = 0$
 (খ) $A = 0$ ও $B = 1$
 (গ) $A = 1$ ও $B = 0$
 (ঘ) $A = 1$ ও $B = 1$

৫। ব্লুটুথ এর ফ্রিকোয়েন্সি কত?

- (ক) 2.45KHz
 (খ) 2.45MHz
☒ (গ) 2.45GHz
 (ঘ) 2.45THz

৬। টেলিফোনেশনের প্রয়োগক্ষেত্র কোনটি?

- (ক) ক্রায়েোসার্জারি
 (খ) বায়োমেট্রিক্স
☒ (গ) কার্ডিয়াল ডিফেন্সিটি
 (ঘ) অর্জিকসিডাল ইন্টেলিজেন্স

উদ্ভীপকটি পড় এবং ৭ ও ৮ নম্বর প্রশ্নের উত্তর দাও:

ক্রমে শিকক অতিক্রম করে তার বয়স জিজ্ঞেস করেন। অতিক্রম করলে, তার বয়স $(10100)_2$ ।

৭। অতিক্রমের বয়সের সমকক্ষ সংখ্যা হলো—

- (ক) $(20)_8$
☒ (খ) $(24)_8$
 (গ) $(24)_{10}$
 (ঘ) $(24)_{16}$

৮। দশ বছর পর অতিক্রমের বয়স হেক্সাডেসিমালে কত হবে?

- (ক) $(1D)_{16}$
☒ (খ) $(1E)_{16}$
 (গ) $(1F)_{16}$
 (ঘ) $(2D)_{16}$

৯। ১০ টি কম্পিউটারকে মেশ নেটওয়ার্কিং এর আওতায় আনতে কয়টি তারের প্রয়োজন?

- (ক) 10
☒ (খ) 45
 (গ) 30
 (ঘ) 90

১০। বায়োইনফরমেশন ব্যবহৃত হয়—

- I. ডিএনএ ম্যাপিং
 II. জিন ফাইন্ডিং
 III. মেসিন লার্নিং

নিচের কোনটি সঠিক?

- ☒ (ক) I ও II
 (খ) I ও III
 (গ) II ও III
 (ঘ) I, II ও III

উদ্ভীপকটি পড় এবং ১১ ও ১২ নম্বর প্রশ্নের উত্তর দাও:

করিয় সাহেব তার প্রয়োজনে কম্পিউটারভিত্তিক একটি সেবা গ্রহণ করলেন, যা ২৪ ঘণ্টা খোলা থাকে। সকল সম্ভটওয়ার স্বয়ংক্রিয়ভাবে আপডেট হয়, খরচ কম এবং ব্যাকআপ কার্যপাতি অনেক বেশি। তার কম্পিউটারটি বিভিন্ন সেবার কম্পিউটারের সাথে যুক্ত।

১১। উদ্ভীপকের নেটওয়ার্ক কোনটি?

- (ক) LAN
 (খ) MAN
☒ (গ) WAN
 (ঘ) PAN

১২। উদ্ভীপকে উল্লিখিত সেবাটি হলো—

- I. রিসোর্স শেয়ারিং
 II. অন-ডিম্ব সেবা
 III. পে-অ্যাক্স-ইউ-পে সেবা

নিচের কোনটি সঠিক?

- (ক) I ও II
☒ (খ) I ও III
 (গ) II ও III
 (ঘ) I, II ও III

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1. Understanding the eBook Hsc Board Information Technology Question Paper 2013
 - The Rise of Digital Reading Hsc Board Information Technology Question Paper 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Board Information Technology Question Paper 2013
 - 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 Hsc Board Information Technology Question Paper 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Board Information Technology Question Paper 2013
 - Personalized Recommendations

- Hsc Board Information Technology Question Paper 2013 User Reviews and Ratings
- Hsc Board Information Technology Question Paper 2013 and Bestseller Lists
- 5. Accessing Hsc Board Information Technology Question Paper 2013 Free and Paid eBooks
 - Hsc Board Information Technology Question Paper 2013 Public Domain eBooks
 - Hsc Board Information Technology Question Paper 2013 eBook Subscription Services
 - Hsc Board Information Technology Question Paper 2013 Budget-Friendly Options
- 6. Navigating Hsc Board Information Technology Question Paper 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Board Information Technology Question Paper 2013 Compatibility with Devices
 - Hsc Board Information Technology Question Paper 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Board Information Technology Question Paper 2013
 - Highlighting and Note-Taking Hsc Board Information Technology Question Paper 2013
 - Interactive Elements Hsc Board Information Technology Question Paper 2013
- 8. Staying Engaged with Hsc Board Information Technology Question Paper 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Board Information Technology Question Paper 2013
- 9. Balancing eBooks and Physical Books Hsc Board Information Technology Question Paper 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Board Information Technology Question Paper 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Board Information Technology Question Paper 2013
 - Setting Reading Goals Hsc Board Information Technology Question Paper 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Board Information Technology Question Paper 2013
 - Fact-Checking eBook Content of Hsc Board Information Technology Question Paper 2013

- 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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