

বহুনির্বাচনি অধীক্ষা

কক্ষ ও যোগাযোগ প্রযুক্তি

[২০২৩ সালের নিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

ঢাকা বোর্ড

বিষয় কোড:

2 7 5

সেট :

৭

[বিশেষ প্রটীক: সরবরাহকৃত বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রস্তাবিত তথ্যিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত কৃত্রিমমুহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের ক্রটি বল পয়েন্ট কলাম দ্বারা সম্পূর্ণ করাটি কর। 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। নেটিওয়ার্কিংয়ের উদ্দেশ্য হলো—

- I. ইনফরমেশন শেয়ার
 II. সফটওয়্যার শেয়ার
 III. হার্ডওয়্যার 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 ও ও B 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। উদ্দীপকের বর্ণনীর 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 প্রয়োজকেত্র কোনটি?

- (ক) ক্রায়েসলার্কিং
 (খ) বায়োমেট্রিক
☒ (গ) ভাইডোল ডিফেন্সিটি
 (ঘ) অটোবিশিয়াল ইন্টেলিজেন্স

উদ্দীপকটি পড় এবং ৭ ও ৮ নম্বর প্রশ্নের উত্তর দাও:

ক্রাসে শিকক অতিক্রম করে তার বয়স জিজ্ঞেস করেন।
 আতিক বলল, তার বয়স $(10100)_2$ ।

৭। আতিকের বয়সের সমকক্ষ সংখ্যা হলো—

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

৮। দশ বছর পর আতিকের বয়স হেক্সাডেসিমালে কত হবে?

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

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

- (ক) 10
☒ (খ) 45
 (গ) 30
 (ঘ) 90

১০। বায়োইনফরমেটিক্স 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

উদ্দীপকটি পড় এবং ১১ ও ১২ নম্বর প্রশ্নের উত্তর দাও:

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

১১। উদ্দীপকের নেটিওয়ার্ক কোনটি?

- (ক) LAN
 (খ) MAN
☒ (গ) WAN
 (ঘ) PAN

১২। উদ্দীপকে উল্লিখিত সেবাটি হলো—

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

নিচের কোনটি সঠিক?

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