

# বরিশাল বোর্ড—২০১৪

পাঠিত : সৃজনশীল

সময়-২ ঘণ্টা ১০ মিনিট

মান-৬০

বিষয় কোড:

১ ০ ৯

নির্দেশ : ভাল পাঠের সম্ভাব্য প্রস্তাব পূর্ণাঙ্গ জ্ঞানক। প্রতিটি বিভাগ থেকে কমপক্ষে ১টি করে নিজে খোঁজি করে এর উত্তর দাও।

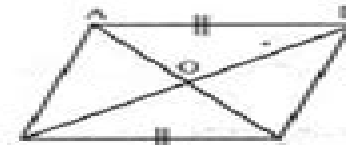
## ক বিভাগ-পাঠিত

১. (৪ক + ২) একটি বীজপলিটীয় রূপ।  
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## খ বিভাগ-বীজপলিট

৩.  $x + y$ ,  $x^2 + y^2$  এবং  $x^3 + y^3$  তিনটি বীজপলিটীয় রূপ।  
ক. তৃতীয় রূপকে উপস্থাপকে বিশ্লেষণ কর। ২  
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গ. ১ম রূপ, ৩য় রূপ ও  $x^2 - y^2$  এর ল.সা.গু. নির্ণয় কর। ৪
৪.  $x - 4y = 19$  এবং  $4x - y = 8$  দুইটি সরল সমীকরণ।  
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গ. লেখচিত্রের মাধ্যমে সমীকরণদ্বয়ের সমাধান কর। ৪
৫.  $A = \{3, 6, 9, 12, 15, 18\}$  এবং  $B = \{x : x, 24 \text{ এর গুণনীয়ক}\}$   
ক.  $A$  কে সেট থীস পদ্ধতিতে প্রকাশ কর। ২  
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গ. দেখাও যে,  $A \cup B = (A - B) \cup (B - A) \cup (A \cap B)$  ৪

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৬. 

- ক. ত্রিভুজ চতুর্ভুজ-এর সংজ্ঞা দাও। ২
- খ. উদ্ভিদগণের অঙ্গোকে প্রমাণ কর যে,  $AO = CO$   
এবং  $BO = DO$ । ৪
- গ. উদ্ভিদগণের অঙ্গোকে প্রমাণ কর যে,  
 $\angle AOB = \angle BOC = \angle COD = \angle AOD =$  এক সমকোণ ৪
৭. একটি চতুর্ভুজের দুইটি সন্নিবিষ্ট বাহু ৪ সে.মি. এবং ৫ সে.মি. এবং তিনটি  
কোণ যথাক্রমে  $60^\circ$ ,  $65^\circ$  ও  $100^\circ$ ।  
ক. উদ্ভিদগণের অঙ্গোকে ত্রিভুজের অঙ্ক। ২  
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৮.  $ABC$  একটি সমকোণী ত্রিভুজ, যার  $\angle B = 90^\circ$  এবং  $AC = 4$  সে.মি.  
ক. বীজপলিটের উপস্থাপকটি লিখ। ২  
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গ. একটি বর্গক্ষেত্রের বাহুর দৈর্ঘ্য উদ্ভিদগণের  $AC$  বাহুর সমান হলে বর্গক্ষেত্রটি  
অঙ্কন কর। (অঙ্গবাদের বিবরণ আবশ্যিক) ৪

## ঘ বিভাগ-পরিমাপ

৯. নিচে একটি সারণি দেওয়া হলো:

বয়স (বছর)	১০-১৫	১৬-১৭	১৮-২০	২১-২২	২৩-২৪	২৫-২৬	২৭-২৮
পদসংখ্যা	২৪	২৭	২৮	৩১	২৬	২৮	২২

- ক. পরিমাপের কলতে কী বুঝ? ২
- খ. এদের সারণি হতে গড় নির্ণয় কর। ৪
- গ. এদের উপরতলসমূহের আয়তক্ষেত্র অঙ্ক। ৪

# বরিশাল বোর্ড—২০১৪

পাঠিত : বহুনির্বাচনি অজ্ঞান

বিষয় কোড:

১ ০ ৯

সময় — ৪০ মিনিট

পূর্ণাঙ্গ — ৪০

নিঃ : সরাসরাসরিত উত্তরপত্র বহুনির্বাচনি প্রস্তাব প্রদানের বিশদীতে প্রদত্ত বর্তমান হতে সঠিক উত্তরের বর্তীতে টিক (✓) চিহ্ন দাও। প্রতিটি প্রস্তাবের মান-১।

১. ১, ১০, ১৯, ..... তালিকার পরবর্তী সংখ্যাটি কত?  
(ক) ২০ (খ) ২২  
(গ) ২৪ (ঘ) ২৬
২. ইরোটেশনাল বীজপলিটের মাধ্যমে কোন সম্ভাব্য  
সম্ভাব্যই নির্ণয় করা যায়?  
(ক) বৈদিক (খ) বৈদিক  
(গ) কোট (ঘ) বিজ্ঞান
৩. ২, ৩, ৪, ৫, ..... বৈদিক সম্ভাব্যের তালিকা—  
১. পরবর্তী সম্ভাব্য দুটি ১১, ১৪  
২. পরবর্তী ২  
নিজের কোণটি সঠিক ?  
(ক) ১ ৩ ৪ (খ) ১ ৩ ৪  
(গ) ১ ৩ ৪ (ঘ) ১ ৩ ৪

## নিজের কোণটি সঠিক

১৪.  $a^2 - b^2 =$  কত, যখন  $a + b = ৫$  এবং  $a - b = ৩$   
(ক) ২ (খ) ৩  
(গ) ৪ (ঘ) ৫
১৫.  $(-৪)^2 - 7$   
(ক) ২৪ (খ) -২৪  
(গ) -১১ (ঘ) ১১
১৬. গুণনীয়কের অপর নাম কি?  
(ক) উপস্থাপক (খ) রূপ  
(গ) ল.সা.গু. (ঘ) সংখ্যা
১৭. ৪ এর গুণিতক নিজে কোণটি?  
(ক) ১ (খ) ২  
(গ) ৩ (ঘ) ৪

২৪.  $\angle A =$  কত ডিগ্রি?  
(ক)  $55^\circ$  (খ)  $65^\circ$   
(গ)  $105^\circ$  (ঘ)  $180^\circ$
২৫.  $\angle B =$  কত ডিগ্রি?  
(ক)  $65^\circ$  (খ)  $125^\circ$  (গ)  $175^\circ$  (ঘ)  $180^\circ$
২৬. বর্গ আঙ্গবাদের অঙ্গ কতটি উপস্থাপক প্রয়োজন?  
(ক) ১টি (খ) ২টি (গ) ৩টি (ঘ) ৪টি
২৭. একটি বাহু ও একটি কোণ দেওয়া থাকলে কী অঙ্ক  
যায়?  
(ক) আয়তক্ষেত্র (খ) চতুর্ভুজ  
(গ) বর্গক্ষেত্র (ঘ) সামান্তরিক
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