

# বরিশাল বোর্ড—২০১৪

পাঠিত : সৃজনশীল

সময়-২ ঘণ্টা ১০ মিনিট

মান-৬০

বিষয় কোড:

১ ০ ৯

নির্দেশ : ভাল পাঠের সম্ভাব্য প্রকারে পূর্ণমান অর্জন কর। প্রতিটি বিভাগ থেকে কমপক্ষে ১টি করে নিজে খোঁচি করে এগের উত্তর দাও।

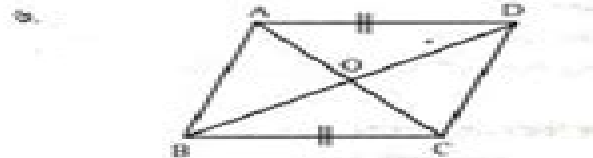
## ক বিভাগ-পাঠিপত্রিত

১. (৪ক + ২) একটি বীজপলিটীয় রূপ।  
ক. রূপটির ১ম ও ২য় পদ কত? ২  
খ. উদীপকের অঙ্গোকে এর ও ৪র্থ পদের ক্যাডমিক প্যাসিভ অঙ্গন কর এবং অঙ্গনের সমতা করা যায়? ৪  
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২. কোনো মূলধন একটি মাসে দুইবার এক বছরান্তে ও দুই বছরান্তে চক্রবৃদ্ধি মূলধন যথাক্রমে ৬৫০ টাকা ও ৬৭৬ টাকা।  
ক. সরল মূলধন ও চক্রবৃদ্ধি মূলধন নির্ণয়ের সূত্র লিখ। ২  
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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  
খ. ১ম ও ২য় রূপের মান যথাক্রমে ৩ এবং ৫ হলে,  $xy$  এর মান নির্ণয় কর। ৪  
গ. ১ম রূপ, ৩য় রূপ ও  $x^2 - y^2$  এর ল.সা.প. নির্ণয় কর। ৪
৪.  $x - 4y = 19$  এবং  $4x - y = 8$  দুইটি সরল সমীকরণ।  
ক. সরল সমসীকরণ কলতে কী বুঝ? ২  
খ. প্রতিস্থাপন পদ্ধতিতে সমীকরণদ্বয়ের সমাধান কর। ৪  
গ. লেখচিত্রের মাধ্যমে সমীকরণদ্বয়ের সমাধান কর। ৪
৫.  $A = \{3, 6, 9, 12, 15, 18\}$  এবং  $B = \{x : x, 24 \text{ এর গুননীয়ক}\}$   
ক.  $A$  কে সেট থীস পদ্ধতিতে প্রকাশ কর। ২  
খ.  $A \cap B$  এবং  $A \cup B$  নির্ণয় কর। ৪  
গ. দেখাও যে,  $A \cup B = (A - B) \cup (B - A) \cup (A \cap B)$  ৪

## গ বিভাগ-অঙ্কমিত



৭. ক. ত্রিভুজ চতুর্ভুজ-এর সমতা পাও। ২  
খ. উদীপকের অঙ্গোকে প্রমাণ কর যে,  $AO = CO$  এবং  $BO = DO$ । ৪  
গ. উদীপকের অঙ্গোকে প্রমাণ কর যে,  $\angle AOB = \angle BOC = \angle COD = \angle AOD =$  এক সমকোণ। ৪
৮. একটি চতুর্ভুজের দুইটি সন্নিবিষ্ট বাহু ৪ সে.মি. এবং ৫ সে.মি. এবং তিনটি কোণ যথাক্রমে  $60^\circ, 65^\circ$  ও  $100^\circ$ ।  
ক. উদীপকের অঙ্গোকে ত্রিভুজের অঙ্ক। ২  
খ. অঙ্গনের বিষয়ল চতুর্ভুজটি অঙ্ক। ৪  
গ. উদীপকের দুটি সন্নিবিষ্ট বাহু এবং তাদের অন্তর্ভুক্ত কোণ  $60^\circ$  হলে অঙ্গনের বিষয়লসহ সামান্তরিকটি অঙ্ক। ৪
৯.  $ABC$  একটি সমকোণী ত্রিভুজ, যার  $\angle B = 90^\circ$  এবং  $AC = 4$  সে.মি.  
ক. বীজপলিটের উপস্থাপকটি লিখ। ২  
খ. বীজপলিটের সাহায্যে প্রমাণ কর যে,  $AC^2 = AB^2 + BC^2$ । ৪  
গ. একটি বর্ণক্ষেত্রে বাহুর দৈর্ঘ্য উদীপকের  $AC$  বাহুর সমান হলে বর্ণক্ষেত্রেটি অঙ্কন কর। (অঙ্গনের বিষয়ল আবশ্যিক) ৪

## ঘ বিভাগ-পরিমাপন

১০. নিচে একটি সারণি দেওয়া হলো:

বয়স (বছর)	১০-১৫	১৬-২০	২১-২৫	২৬-৩০	৩১-৩৫	৩৬-৪০	৪১-৪৫
পদসংখ্যা	২৪	২৭	২৮	৩১	২৬	২৮	২২

- ক. পরিমাপন কলতে কী বুঝ? ২
- খ. এমত সারণি হতে গড় নির্ণয় কর। ৪
- গ. এমত উপরতসমূহের আভাসে অঙ্ক। ৪

# বরিশাল বোর্ড—২০১৪

পাঠিত : বহুনির্বাচনি অজ্ঞা

বিষয় কোড:

১ ০ ৯

সময় — ৪০ মিনিট

পূর্ণমান — ৪০

নিঃ : সরাসরাসরিত উত্তরপত্রে বহুনির্বাচনি প্রকারে প্রতিটি সমস্যাতে একটি বাতমূল্য হতে সঠিক উত্তরের পদ্ধতিতে টিক (✓) চিহ্ন দাও। প্রতিটি প্রকারে মান-১।

১. ১, ১/২, ১/৪, ..... অসীম পর্যন্ত সংখ্যক কত? ২  
ক. ২০  
খ. ২১  
গ. ২২  
ঘ. ২৩
২. ইরোটেশনাল বিন্দুর সাহায্যে কোন সমস্যা সমাধান করা যায়? ৪  
ক. বৈলম্ব  
খ. বৈলম্ব  
গ. কোণ  
ঘ. বিকোণ
৩. ২, ৩, ৪, ৫, ..... বৈলম্ব সমস্যার অসীমতা— ২  
ক. পর্যন্ত বিস্তারিত  
খ. পর্যন্ত বিস্তারিত  
গ. পর্যন্ত বিস্তারিত  
ঘ. পর্যন্ত বিস্তারিত

## নিম্নের কোনটি সঠিক?

১৪.  $a^2 - b^2 =$  কত, যখন  $a + b = ৫$  এবং  $a - b = ৩$ ? ২  
ক. ২  
খ. ৩  
গ. ৪  
ঘ. ৫
১৫.  $(-৪)^2 - 7$  ২  
ক. ২৪  
খ. ২৫  
গ. ২৬  
ঘ. ২৭
১৬. গুলীফের অপর নাম কি? ২  
ক. উপস্থাপক  
খ. রূপ  
গ. ল.সা.প.ম.  
ঘ. সংখ্যা
১৭. ৪ এর গুণিতক কোন কোন? ২  
ক. ১  
খ. ২  
গ. ৩  
ঘ. ৪

২৪.  $\angle A =$  কত ডিগ্রি? ২  
ক.  $55^\circ$   
খ.  $65^\circ$   
গ.  $105^\circ$   
ঘ.  $180^\circ$
২৫.  $\angle B =$  কত ডিগ্রি? ২  
ক.  $65^\circ$   
খ.  $125^\circ$   
গ.  $175^\circ$   
ঘ.  $180^\circ$
২৬. বর্ণ অঙ্গনের জন্য কতটি উপস্থাপক প্রয়োজন? ২  
ক. ১টি  
খ. ২টি  
গ. ৩টি  
ঘ. ৪টি
২৭. একটি বাহু ও একটি কোণ দেওয়া থাকলে কী অঙ্ক করা যায়? ২  
ক. অঙ্কনক্ষেত্র  
খ. অঙ্কন  
গ. বর্ণক্ষেত্র  
ঘ. সামান্তরিক
২৮. নিম্নে  $\triangle ABC$  এর মান কত ডিগ্রি? ২  
ক.  $100^\circ$   
খ.  $110^\circ$   
গ.  $120^\circ$   
ঘ.  $130^\circ$

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OPENING DATE - AUGUST 1, 2014. SCHOOL DAYS - 180. CLOSING DATE - MAY 22, ... Hamilton County Schools: Home Chattanooga, TN 37421. Phone Icon. 423-498-7020. FAMILIES. Before and After Care · Calendar & Events · Family Portal · Code of Acceptable Behavior · Bus ... hamilton county school calendar: 2023-2024 Half Day for Students/Half Day Teacher Planning- BUSES WILL RUN. October 6, Friday. End of 1st Quarter (42 days). October 9-13, M-F. Fall Break (5 Unpaid Days). Reading free Chattanooga tn hamilton county schools ... Jan 30, 2023 — Reading free Chattanooga tn hamilton county schools 2014 2015 calendar (PDF) | www.eventplanner.stormspakhus.dk www.eventplanner ... hamilton county school district calendar 2023-2024 Jul 24, 2023 — April 1-5 - Spring Break. 1 2 3 4 5. 9 10. 7. 11. 9. 12 13. 8 9 10 11 12. 16 ... HAMILTON COUNTY SCHOOL DISTRICT CALENDAR. 2023-2024. Page 2. \* ... Hamilton County Schools Approved 2021-2022 Calendar Hamilton County Schools Approved 2021-2022 Calendar - Free download as PDF File (.pdf), Text File (.txt) or read online for free. Hamilton County Schools ... Calendar Christmas Break - Dec. 16-Jan. 3 ; MLK Day - Jan. 15 ; Winter Break - Feb. 16-20 ; Spring Break - March 23-April 1 ; High School Graduation - May 18. Hamilton County School Board approves school calendar ... Feb 17, 2021 — The Hamilton County School Board is expected to review the proposed school calendar for the Fall 2021 and Spring 2022 school year at Thursday ... techtronix 100 transmission working pressure - Yale Feb 14, 2021 — All techtronics pressure problems should start with a trans valve calibration. Don't pull the trans without a full set of pressures. JJ. Posted 6 Jun 2014 00 ... Techtronix transmission service - resp.app Mar 10, 2023 — We offer techtronix transmission service and numerous books collections from fictions to scientific research in any way. among them is this ... What transmission fluid is used in a Yale Techtronix 100 ... If its thicker than trans fluid and clear might be a 30wt oil. Most older Yales either took Dexron or 30wt in their trans. does "T-Tech" system really work Sadly, quick lube operators recommend the transmission fluid exchange service, but neglect servicing the filter. However, you generally need to pump through ... Sealed Life-time Transmission Fluid Change & Temperature ... GP135-155VX series The Techtronix 332 transmission offers improved tire savings through controlled power reversals. All three engine options deliver outstanding fuel economy with ... YALE (J813) GDP45VX6 LIFT TRUCK Service Repair ... Sep 17, 2018 — YALE (J813) GDP45VX6 LIFT TRUCK Service Repair Manual. Page 1. Service Repair ... Techtronix Transmission. 20 liter (21.0 qt). John Deere JDM J20C. Type of transmission fluid for Yale Lift truck Sep 16, 2014 — They said it is a special oil and if we put in 30 wt oil or Dextron ATF we will destroy the transmission. Since the lift truck is at a job site ... Veracitor ® GC-SVX The Techtronix 100 transmission offers improved tire and fuel costs through ... with service details in mind. The cowl-to-counterweight access makes servicing ... Tektronix - Transmission Lines - YouTube