

අධ්‍යයන පොදු සහතික පත්‍ර (සාමාන්‍ය පෙළ) විභාගය, 2020 දෙසැම්බර්
General Certificate of Education (Ord. Level) Examination, December 2020

co-Science	II
Mathematics	II

2020.12.08/1390-1610

Three Issues

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Additional Reading Time	-	10 minutes

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කාලයෙන් පසු ඇති පිටිකුරු ඇතුළත් කරන්න

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Discussion

- * A කොටසේ ප්‍රශ්න හතක් හා B කොටසෙන් ප්‍රශ්න හතක් තෝරා ගෙන ප්‍රශ්න දහයකට පිළිතුරු සපයන්න.
- * ප්‍රශ්න වලට පිළිතුරු සැපයීමේදී දෙනු ලබන විෂයට හා නිර්දේශිත ක්‍රියා දක්වන්න.
- * සෑම ප්‍රශ්නයකට මිලකුණු 10 බැගින් තිබේ.
- * සකලේ අරය r ද උස h ද වන සෘජු වෘත්ත පිළිඟ්ටරයක පරිමාව $\pi r^2 h$ වේ.

Answer
 water vapor and solid BaCO_3 reactants

1. $y = (x + 1)^2 - 3$ ශ්‍රිතයේ ප්‍රස්ථාරය ඇඳීම සඳහා සකස් කරන ලද අසම්පූර්ණ වෘත්ත විභවස් ආකෘතිය ලියවේ.

x	-4	-3	-2	-1	0	1	2
y	6	1	-2	-2	1	6

- (i) $x = -1$ වන විට y හි අගය සොයන්න.
- (ii) x -අක්ෂය දිශාවේ y -අක්ෂය දිශාවේ කුඩා කොටු 10 කින් උසක එකක් බැගෙහි නිරූපණය වන සේ පරිමාණය කොට තනිමින් අනන්ත ක්‍රියාවේ ප්‍රස්ාරය, මිඬු සහය ඇති ප්‍රස්ාරය සාධාරණයේ අඳින්න.
- (iii) ප්‍රස්ාරයේ සමමිතික අක්ෂය ඇතුළු එහි සමීකරණය ලියන්න.
- (iv) $-1 \leq x \leq +2$ පරිදි වන x අගය පරාසය කළ ක්‍රියාවේ නැවත විස්තර කරන්න.
- (v) ක්‍රියාවේ අගයන් සංඛ්‍යා මිඬුවන x හි අගයන් පරාසය සොයන්න.
- (vi) ප්‍රස්ාරය ඇසුරින් $(x + 1)^2 - 3 = 0$ සමීකරණයේ මූල සොයන්න.
- (vii)

2. රුපියල් 145 000 ක් වටිනා භාණ්ඩයක් ක්‍රීඩිත් රුපියල් 25 000 ක් ගෙවා ඉතිරිය සමාන මාසික වාරික 12 කින් ගෙවා තිබී කළ හැකි පරිදි ඒල්දී ගත හැකි ය. මෙම භාණ්ඩය සඳහා අදාළ වෙළඳසැලෙන් නිත වන මෝස ක්‍රමය යටතේ 24% ක වාර්ෂික ගොළු අනුපාතයක් ද මොර්ට්ග් ලොක එය කරයි. මාසික වාරිකයක අගය භාණ්ඩය කරන්නා

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