

අධ්‍යයන සංස්ථා 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

අමතර කියවීමේ කාලය	-	පමණ 10 මි
Additional Reading Time	-	10 minutes

අමතර සියවීම කාලය ප්‍රතික පත්‍රය සියවීම ප්‍රතික අතරතුර ඇතිවීමේ පිළිතුරු ලිවීමේදී ප්‍රතික්‍රියාවය අදාළ ප්‍රතික
කාලයට අයත් අතරතුර ඇතිවීමේ අයහපත් අත්දැකීම්

[illegible]

Discussion

- * A කොටසේ ප්‍රශ්න හතක් හා B කොටසෙන් ප්‍රශ්න හතක් තෝරා ගෙන ප්‍රශ්න දහයකට පිළිතුරු සපයන්න.
- * ප්‍රශ්න වලට පිළිතුරු සැපයීමේදී අදාළ සියවස් හා නිවැරදි ජ්‍යෙෂ්ඨ ලියා දක්වන්න.
- * සෑම ප්‍රශ්නයකට මි ලකුණු 10 සිටින්නි නිමි වේ.
- * සකසනු ලබන g, c, μ, k වලට සාපේක්ෂව පිළිවෙරුමක පරිමිත mg^2/h වේ.

Answer:
 water, sand, oil and BGP, methane

1. $y = (x + 1)^2 - 3$ ශ්‍රිතයේ ප්‍රස්ථාරය අ.දීම් සාලනා සකස් කරන ලද අසම්පූර්ණ ලෙස විග්‍රහණ සහන දැක්වේ.

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 අනෙක ක්‍රියාවේ ප්‍රස්ථාරය, මිහිට සපයා ඇති ප්‍රස්ථාර කඩදාසියේ අඳින්න.
- (iii) ප්‍රස්ථාරයේ සමීකරණ අක්ෂය ඇඳ එහි සමීකරණය ලියන්න.
- (iv) $-1 \leq x \leq +2$ පරිදි වන x අගය පරාසය කළ ක්‍රියාවේ කුඩා විස්තර කරන්න.
- (v) ක්‍රියාවේ අගයන් සෘණව පිහිටන x හි අගයන් පරාසය සොයන්න.
- (vi) ප්‍රස්ථාරය 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 මොර්ට්ගා ලොක සහ තරම්. මාසික වාරිකයක අගය භාණ්ඩය තරම්.

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IM Harris



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