

**PERATURAN PERMARKAHAN**  
**PERCUBAAN SPM 2023**  
**MATAPELAJARAN: FIZIK KERTAS 3**  
**SKEMA JAWAPAN**

No. Soalan	Jawapan	Sub markah	Markah penuh													
6.	(a) (i)	Semakin bertambah kedalaman $h$ , semakin bertambah perbezaan tinggi turus air, $D$ <i>The greater the depth, <math>h</math>, the greater the difference in height of water column, <math>D</math></i>	1	1												
	(ii)	Kedalaman $h$ <i>Depth, <math>h</math></i>	1	1												
	(iii)	Perbezaan tinggi turus air, $D$ <i>Difference in height of water column, <math>D</math></i>	1	1												
	(b)	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th><math>h</math> (cm)</th> <th><math>D</math> (cm)</th> </tr> </thead> <tbody> <tr><td>2.0</td><td>1.1</td></tr> <tr><td>4.0</td><td>2.2</td></tr> <tr><td>6.0</td><td>3.3</td></tr> <tr><td>8.0</td><td>4.4</td></tr> <tr><td>10.0</td><td>5.5</td></tr> </tbody> </table> ✓ symbol ✓ unit ✓ titik perpuluhan ✓ nilai $D$  $4\sqrt{\quad} = 3\text{m}$ $2\sqrt{\quad} - 3\sqrt{\quad} = 2\text{m}$ $1\sqrt{\quad} = 1\text{m}$	$h$ (cm)	$D$ (cm)	2.0	1.1	4.0	2.2	6.0	3.3	8.0	4.4	10.0	5.5		3
	$h$ (cm)	$D$ (cm)														
	2.0	1.1														
4.0	2.2															
6.0	3.3															
8.0	4.4															
10.0	5.5															
(c)	Graf  ✓ label paksi ✓ unit ✓ skala ✓✓ titik plot betul ✓ size graf besar  $6\sqrt{\quad} - 7\sqrt{\quad} = 3\text{m}$ $4\sqrt{\quad} - 5\sqrt{\quad} = 2\text{m}$ $2\sqrt{\quad} - 3\sqrt{\quad} = 1\text{m}$		3													
(d)	$D \propto h$	1	1													
(e)	Kecerunan $= \frac{5.5 - 0}{10.0 - 0}$ (segitiga + penggantian = 1m) $= 0.55 \sqrt{\quad}$ (Jawapan = 1m)		2													

(f)	Kecerunan bertambah. Tekanan bertambah. <i>The gradient increasing</i> <i>The pressure increase</i>	1 1	2
(g)	Mata beserenjang dengan skala pembaris <i>The eyes perpendicular to the scale of ruler</i>  Pastikan corong tisel kedap udara <i>Make sure the thistle funnel is airtight</i>	1  1	1

