

<p>(d) (i)</p>	<p>Murid berjaya merekod pemerhatian selepas 10 minit. <i>Student able to record the observation after 10 minutes .</i></p> <table border="1" data-bbox="478 368 1383 727"> <thead> <tr> <th rowspan="2">Tabung uji <i>Test tube</i></th> <th colspan="2">Pemerhatian ujian iodin <i>Iodine test observation</i></th> </tr> <tr> <th>Awal <i>Initial</i></th> <th>Akhir <i>Final</i></th> </tr> </thead> <tbody> <tr> <td>X</td> <td>Biru gelap <i>Dark blue</i></td> <td>Kuning keperangan <i>Yellowish brown</i></td> </tr> <tr> <td>Y</td> <td>Biru gelap <i>Dark blue</i></td> <td>Biru gelap <i>Dark blue</i></td> </tr> </tbody> </table>	Tabung uji <i>Test tube</i>	Pemerhatian ujian iodin <i>Iodine test observation</i>		Awal <i>Initial</i>	Akhir <i>Final</i>	X	Biru gelap <i>Dark blue</i>	Kuning keperangan <i>Yellowish brown</i>	Y	Biru gelap <i>Dark blue</i>	Biru gelap <i>Dark blue</i>	<p>1 1</p>	<p>2</p>
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<p>(d) (ii)</p>	<p>Murid berjaya menyatakan satu inferens bagi pemerhatian pada tabung uji X. <i>Student able to state an inference for the observation on test tube X</i></p> <p>Sampel Jawapan: Amilase menghidrolisis molekul kanji kepada maltosa. <i>Amilase hydrolysed starch molecule into maltosa.</i></p>	<p>1</p>	<p>1</p>											
<p>(e)</p>	<p>Murid berjaya menulis hipotesis eksperimen ini. <i>Student able to write the hypothesis of this experiment.</i></p> <p>P1 : Pemboleh ubah manipulasi. <i>Manipulated variable (stand alone)</i></p> <p>P2 : Pemboleh ubah bergerak balas <i>Responding variable</i></p> <p>P3 : Hubungan antara PM dan PB. <i>Relationship between MV and RV</i></p> <p><i>Rubrik</i> Amilase menghidrolisis molekul kanji dalam air suam/37°C tetapi tidak dalam ais/0°C (dalam masa 10 minit). <i>Amilase hydrolyses starch molecule in warm water/ 37°C but not in the ice 0°C</i></p> <p style="text-align: right;"><i>P1/ MV: -1</i> 1 <i>H + P2 : -1</i> 1</p>	<p>1 1</p>	<p>2</p>											
<p>(f)(i)</p>	<p>Murid berjaya meramalkan pemerhatian apabila ampaiian di tabung uji X ditambah dengan asid hidroklorik. <i>Student able to predict the observation when the suspension in test tube X is added with hydrochloric acid.</i></p> <p>Tiada perubahan berlaku/ warna iodin kekal <i>No change/ the colour of iodine remain unchanged.</i></p>	<p>1</p>	<p>1</p>											

(ii)	<p>Murid dapat memberi alasan kepada jawapan anda di (f) (i). <i>Student able to give the reason for your answer in (f) (i).</i></p> <p>Amilase yang telah ditambah dengan asid telah dinyahasi/ berubah struktur tapak aktif enzim/cas pada tapak aktif enzim dan substrat berubah. <i>Amylase that has been added with acid has been denatured/ destroyed/ change the structure of the active site of the enzyme/charge on the active site of the enzyme and the substrate changes.</i></p>	1	1
(g) (i)	<p>Murid boleh menjelaskan mengapa kotoran darah tidak dibersihkan sepenuhnya. <i>Student able to explain why the blood stain is not completely cleaned.</i></p> <p>P1: Darah ialah sejenis protein <i>Blood is a type of protein.</i></p> <p>P2: Protein dihidrolisiskan oleh protease (enzim). <i>Protein is hidrolysed by protease (enzyme).</i></p> <p>P3: Oleh itu, penggunaan amilase (enzim) dalam serbuk detergen tidak akan berkesan ke atas protein. <i>Therefore, the use of amylase (enzyme) in the detergent powder would not be effective on protein.</i></p> <p style="text-align: right;"><i>Any 2 Mana-mana 2</i></p>	1 1 1	2
(ii)	<p>Murid boleh mencadangkan nama enzim yang sesuai untuk menyingkirkan kesan darah tersebut. <i>Student able to suggest the suitable name of the enzyme to remove the blood stains.</i></p> <p>Pepsin / Erepsin / Tripsin / Protease <i>Pepsin / Erepsin / Trypsin / Protease</i></p>	1	1
JUMLAH			15

Selamat mengulangkaji dari telegram@soalanpercubaanspm
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