

No.	Kriteria pemarkahan	Markah	
2a	Dapat menamakan kompleks K <i>Able to name complex K</i> Jawapan <i>Answer</i> Enzim-substrat <i>Enzyme-substrate</i>	1	1
b	Dapat menyatakan jenis enzim untuk amilase <i>Able to state the type of enzyme for amylase</i> Jawapan <i>Answer</i> Ekstrasel <i>Extracellular</i>	1	1
c	Dapat menerangkan mengapa substrat S tidak dapat bergabung dengan enzim amilase <i>Able to explain why substrate S is not able to combine with amylase</i> Jawapan <i>Answers</i> F1. Tapak aktif amilase tidak sepadan dengan substrat S <i>Active site of amylase is not fit/compatible/match with substrate S</i> P1. Maka tindakbalas / hidrolisis kanji tidak berlaku <i>So reaction / starch hydrolysis does not occur</i> P2. Tindak balas enzim adalah spesifik <i>The reaction of enzyme is specific</i> F1 + P1@P2	1 1 1 1+1	2
d	Dapat menerangkan kesan kehadiran molekul Z ke atas aktiviti		

	enzim amilase <i>Able to explain the effect of presence molecule Z on the amylase activity</i> Jawapan Answer P1. Molekul Z adalah perencat <i>Molecule Z is inhibitor</i> P2. Substrat P dihalang/tidak boleh bergabung dengan tapak aktif amilase <i>Substrate P cannot bind with the active site of amylase</i> P3. Kadar tindak balas perlahan/berhenti <i>Rate of activity slower / stop</i> P4. Tiada produk / maltose dihasilkan <i>No product / maltose is produced</i> Mana-mana 2P Any 2P	1 1 1 1 2	
	Jumlah	6	

MARKING SCHEME

Item Num.	Scoring Criteria	Mark	
1(a)(i)	Able to name molecule of P, Q and R. <i>Answer:</i> P: Lipid Q: Lipase-Lipid Complex / Enzyme-substrate complex R: Glycerol // Fatty Acid	1 1 1	3
1(a)(ii)	Able to explain the specific action of lipase's enzyme on substrate P. <i>Answer:</i> P1: An enzyme only reacts on certain substrate. P2: Enzyme of lipase has specific active site. P3: Corresponding to substrate P/lipid only. <i>Any two</i>	1 1 1	2
1(b)	Able to explain the function of enzyme in papaya. <i>Answer:</i> (Enzyme papain/protease) can tenderise meat // hydrolyse protein in meat	1	1
Total		6	