Question Number	Answer	Additional Guidance	Mark
2(a)	1. structural / functional / smallest / eq ; 2. unit of a organism / eq ;	1.**ACCEPT** examples e.g. contains organelles / cytoplasm /site of metabolic reactions 2.**IGNORE** building block	**(2)**

Question Number	Answer	Additional Guidance	Mark
2(b)(i)	1. {synthesise / eq} the **pepsinogen** (in ribosomes); 2. folding protein into {secondary / tertiary / 3D } shape ; 3. idea of packaging (for transport to the Golgi apparatus) ;	2. and 3. **ACCEPT** protein / polypeptide as eq to pepsinogen	**(2)**

Question Number	Answer	Additional Guidance	Mark
2(b)(ii)	1. modification of the pepsinogen / eq ; 2. idea of packaging of the pepsinogen into a vesicle (for exocytosis) / eq ;	**ACCEPT** protein / polypeptide as eq to pepsinogen 1. **ACCEPT** description eg addition of carbohydrate to protein	**(2)**

Question Number	Answer	Additional Guidance	Mark
2(c)	1. gastric stem cells can divide indefinitely but chief cells cannot / eq ; 2. idea that gastric stem cells can differentiate into other cell types but chief cells cannot / eq ; 3. gastric stem cells cannot produce **pepsinogen** but chief cells produce pepsinogen / eq ;	Answers must be **comparative**, accept the word "only" as making a statement comparative 1. **ACCEPT** comparative answers in terms of Hayflick limit 2. **NOT** answers that imply gastric stem cells are totipotent 2. **ACCEPT** gastric stem cells are undifferentiated but chief cells are differentiated 2.ACCEPT specialised for differentiated	**(2)**