M1. The mark scheme gives some guidance as to what statements are expected to be seen in a 1 or 2 mark (L1), 3 or 4 mark (L2) and 5 or 6 mark (L3) answer. Guidance provided in section 3.10 of the 'Mark Scheme Instructions' document should be used to assist in marking this question.

Mark	Criteria	QoWC
6	All three aspects covered:  An comparison of patient safety in terms of ionising radiation exposure.  An appreciation of convenience in terms of pre treatment, scan time, patient movement and discomfort.  There may also be a discussion of comparative cost and equipment partability.  A discussion of the types of information available in terms of uses and limitations.	The student presents relevant information coherently, employing structure, style and sp&g to render meaning clear. The text is legible.
5	Two of the three aspects fully covered, with some detail missing from the third.	
4	One aspect fully covered, with some detail missing from the other two  Or  Two aspects fully covered, with little or no relevant information about the third.	The student presents relevant information and in a way which assists the communication of meaning. The text is legible. Sp&g are sufficiently accurate not to obscure meaning.
3	All three aspects partially covered, with some detail missing from each	

	One aspect fully covered, with little or no relevant information about the other two		
2	Two aspects partially covered, with little or no relevant information about the third.	The student presents some relevant information in a simple form. The text is usually legible. Sp&g allow meaning to be derived although errors are sometimes obstructive.	
1	One aspect partially covered, with little or no relevant information about the other two.		
0	Little or no relevant information about any of the three aspects.	The student's presentation, spelling punctuation and grammar seriously obstruct understanding.	

## The following comparisons are likely to be present:

		PET	u/s
Patient Safety	lonising radiation exposure	Mod to high	None (no tracer)
Convenie nce	Scan time	2-4 h	10 -15 min
	equipment	Large, bulky	portable
	cost	expensive	relatively cheap
	Pre- treatment	Needs tracer injection	No injection
	Patient movement	Must lie still	Movement tolerated
	discomfort	Not good if claustrophobic	Requires cold gel
Informatio		Chemical	Size position

n	and physiological changes related to metabolism	movement (of foetus, organs etc. )
	Useful for detecting brain activity	Cannot penetrate bone – cannot examine brain
		Good for imaging soft tissues
		Cannot pass through air spaces / lungs
	Can provide info re malignancy and tumour spreading	Cannot distinguish between benign and malignant solid masses