Solution

Q		
	A) True -01 mark, Reason-4 marks	
	B) False -01 mark, Reason-4 marks	
	C) False -01 mark, Reason-4 marks	
	D) False -01 mark, Reason-4 marks	
	E) True -01 mark, Reason-4 marks	
Q2		
a	Horizontal, Vertical, Diagonal iteration, and final reconstruction	4Mk, each Step 1Mk- Final Ans
b	Back Projection, Iterative, analytical.	3Mk
	Diagram, Explanation of back projection	3Mk, 4Mk
С	CT No. Definition, Formula, Applications	2Mk, 2Mk, 1Mk
Q3		
a	Explanation of third and fourth generation CT scanners, diagrams	6Mk, 4Mk
b	Formula, Steps (Delta= 0.012), Final Answer: 0.402	2Mk, 2Mk, 1Mk
С	Formula with Diagram, Steps, Final Answer: 0.426mm	2Mk, 2Mk, 1Mk
Q4		
a	Diag of Input and Output Phosphor, Diag of II Tube and parameters	10 Mk,
b	Differentiation containing any 10 points.	10 Mk
Q5		
a	Black Diagram, List of Components, explanation	3Mk, 2Mk, 5Mk
b	Ring artefact, Motion Artefact, Beam Hardening Artifact, Streak artefact, miscellaneous - explanation	2Mk each artefact
Q6		
a	Explanation of working Principle, Applications	2Mk, 2Mk, 1Mk
b	Diagram, Working	2Mk, 3Mk
с	Advantage, Diagram, explanation	1Mk, 2Mk, 2Mk
d	Diagram, Explanation	2Mk, 3Mk
e	Diagram, Explanation	2Mk, 3Mk