

## Radiotherapy York viva September 2010

1. What is a quality index? How do you use it in cross calibration?
2. What are relative and absolute dosimetry?
3. What are flatness and symmetry and how do you calculate them using a cross plot?
4. List the main components of a linac. What does the ion chamber do?
5. How can you locate the prostate on patient setup? (Examiner wanting to hear 'fiducial markers').
6. How can you do in vivo dosimetry? What's the main advantage of diodes?
7. How does absolute dose change with increasing field size?
8. How does the PDD change with increasing field size?
9. How does the PDD change with increasing SSD?
10. Examiner drew a rough patient contour (an oval) with a rough rectal PTV (another oval towards the back). Label ant post left right. Roughly draw the beam arrangement using 3 beams including wedges, what energy would you use?
11. Examiner drew a rough breast contour. Plan this using 2 beams, what wedges, what energy? What hot spots could you get and how could you compensate for this? (fields within fields)

External moderator

What is a quality system and how can you check that it's working? (audit)