In VMAT, which of the following linac parameters are allowed to dynamically vary during treatment delivery:

1. Dose Rate.
2. Gantry Speed.
3. MLC Leaf Positions.
4. All of the above.
5. None of the above.

**Answer:** 4 – All of the above.


Rotating gantry IMRT constitute all of the following except:

1. Serial Tomotherapy.
2. Helical Tomotherapy.
3. Intensity Modulated Arc Therapy.
5. Step-and-shoot IMRT.

**Answer:** 5 – Step-and-shoot IMRT.


Which of the following tests are recommended by the AAPM TG-142 report for MLC Annual QA?

1. MLC transmission.
2. Leaf Position Repeatibility.
5. All of the above.

**Answer:** 5 – All of the above.

Which of the following tests are essential during the commissioning of Rapidarc?

1. Accuracy of DMCL position.
2. Ability to vary dose-rate & gantry speed.
3. Ability to accurately vary MLC leaf speed.
4. End to end testing.
5. All of the above.

Answer: 5 – All of the above.


All of the following devices could be used for VMAT patient specific QA except for:

1. Phantom Laboratory Catphan phantom.
2. Phantom with film and ionization chamber.
3. IBA Matrixx.
4. Sun Nuclear ArcCheck.
5. Scandidos Delta4.

Answer: 1 – Phantom Laboratory Catphan phantom.


In Rapidarc treatment delivery average prescription dose loss to target structures from couch attenuation is approximately:

1. 1%
2. 3%
3. 5%
4. 10%
5. 20%

Answer: 2 – 3%