| QI | P Code: 101117 Reg. No.: |
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| | PG Degree Examinations in Radiotherapy (MD) April 2019 |
| | Paper I – Radiation Physics, Radiobiology & Other Basic Sciences |
| Tir | me: 3 hrs Max marks:100 |
| | Answer all questionsDraw diagrams wherever necessary |
| Essay: (20) | |
| 1. | Describe radiotherapy plan evaluation indices. Describe in detail the evaluation of an IMRT plan and a HDR brachytherapy plan with a clinical example for each. |
| Short essays: (8x10=80) | |
| 2. | ICRU 62 |
| 3. | Hyperthermia - radiobiological basis, clinical applications and techniques |
| 4. | LET - biological and clinical implications. Diagrammatic representation of relationship between LET, RBE & OER. |
| 5. | LENT and SOMA |
| 6. | Hypoxic cell sensitizers |
| 7. | Acceptance and commissioning tests of LINAC |
| 8. | LQ model and its clinical utility |
| 9. | TSET (Total Skin Electron Therapy) *********************************** |