

**M.D. (RADIOLOGICAL DIAGNOSIS) : SUMMER - 2018**

**SUBJECT: PAPER – IV: RECENT ADVANCES AND MODERN TRENDS**

Day: **Friday**  
Date: **08/06/2018**

**S-2018-3402**

Time: **2.00 P.M. TO 5.00 P.M**  
Max Marks. 100

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**N.B.**

- 1) Q. No. 1 and Q. no. 2 are **COMPULSORY**.
  - 2) Attempt any **SEVEN** questions from Q. no. 3 to Q. No. 10.
  - 3) Figures to the right indicate **FULL** marks
  - 4) Draw neat and labelled diagrams **WHEREVER** necessary.
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|-------------|--|-------------|
| <b>Q.1</b>  | Technique and applications of MR perfusion imaging in the brain.   | <b>(15)</b> |
| <b>Q.2</b>  | Principles and clinical applications of dual energy CT.  | <b>(15)</b> |
| <b>Q.3</b>  | Intraoperative ultrasound  | <b>(10)</b> |
| <b>Q.4</b>  | Fusion imaging   | <b>(10)</b> |
| <b>Q.5</b>  | Non surgical treatment of aortic aneurysms   | <b>(10)</b> |
| <b>Q.6</b>  | Write a note on Radio – isotopes in hepatobiliary system.  | <b>(10)</b> |
| <b>Q.7</b>  | What is diffusion tensor imaging? Describe its clinical applications.  | <b>(10)</b> |
| <b>Q.8</b>  | What are the types of Ultrasound elastography? Briefly describe each of them and elaborate on their applications | <b>(10)</b> |
| <b>Q.9</b>  | CT urography   | <b>(10)</b> |
| <b>Q.10</b> | Indications and technique of vertebroplasty  | <b>(10)</b> |

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