

M. D. (RADIOLOGICAL) : SUMMER – 2022
SUBJECT : PAPER – IV : RECENT ADVANCES AND MODERN TRENDS

Day : Friday
Date : 8/7/2022

S-765-2022

Time : 01:30 PM-04:30 PM
Max. Marks : 100

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.
 - 5) Your answer will be evaluated as a whole.
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- Q. 1** Discuss the role of HRCT Thorax and point of care ultrasound (POCUS) in COVID-19 patients. **(15)**
- Q. 2** Discuss the physics of strain and shear wave Elastography. Describe its role in breast disease. Write a short note on principals of MR Elastography. **(15)**
- Q. 3** Artificial intelligence in radiology. **(10)**
- Q. 4** Amide photon transfer imaging - principle and applications. **(10)**
- Q. 5** BIRADS lexicon pertaining to MR Mammography. **(10)**
- Q. 6** Single and Multivoxel MR spectroscopy. **(10)**
- Q. 7** Interventional treatment of cerebral aneurysms. **(10)**
- Q. 8** Comparison of conventional HSG with dynamic MR Hystero salpingography. **(10)**
- Q. 9** Virtopsy (Virtual Autopsy) **(10)**
- Q. 10** Give an account of Hybrid imaging with emphasis on its clinical applications. **(10)**

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