

QP Code:104116

Reg. No.:.....

**PG Degree Supplementary Examinations in Radio diagnosis (MD)
November 2022**

Paper IV – Recent Advances in Radio diagnosis

Time: 3 hrs

Max marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay: (20)

1. Discuss the radiological evaluation of fungal infections in paranasal sinuses with emphasis on mucormycosis associated with COVID-19 disease.

Short essays: (8x10=80)

2. PACS (Picture Archiving Communication System). Describe the role of storage requirements its solutions.
3. Describe the basis of BOLD imaging. Write its utility and limitations.
4. Color Doppler in evaluation of erectile dysfunction.
5. Briefly describe the physical principle of radio frequency ablation. Enumerate it's applications. Discuss the role of radio frequency ablation in management of osteoid osteoma.
6. Principles and clinical applications of dual energy computed tomography.
7. Describe sequence of changes seen in acute and chronic osteomyelitis as seen on plain radiograph. Discuss role of isotopes, ultrasound, CT and MRI in its diagnosis.
8. Indications, technique and complications of uterine artery embolization.
9. What do you understand by perfusion imaging. Describe CT perfusion imaging in acute stroke.
