

# Rajiv Gandhi University of Health Sciences, Karnataka

## Fellowship Examination – 14-Sep-2022

**Time: Three Hours****Max. Marks: 100 Marks**

### **NON-INVASIVE CARDIOVASCULAR IMAGING - PAPER – II**

#### **QP Code: 4325**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

**Answer All The Questions****10 X 10 = 100 Marks**

1. MRI artefacts in various sequences and overcoming them.
2. Role of imaging in COVID-19
3. Define peripartum cardiomyopathy. Role of CMR in peripartum cardiomyopathy.
4. Discuss advances in CMR with respect to LV diastolic dysfunction and the various metrics obtained by CMR.
5. Patient with a TIA sent you for identification and prognostication of carotid artery stenosis. Describe the various imaging tests you can perform.
6. Discuss pathophysiology and Erdheim Chester disease and IgG4 aortitis.
7. Discuss safety protocols in the CMR suite with respect to magnetic fields, contrast agents and contraindications.
8. Discuss imaging features of SHONE complex and Williams syndrome. Describe cardiovascular manifestations of Down's syndrome and Neurofibromatosis.
9. 4D Flow in CMR – Physics, acquisition and applications.
10. A young male patient with a suspected type B aortic dissection has come for a CTA. Describe the protocol and the salient points that you would add in your report.

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