

# Rajiv Gandhi University of Health Sciences

## First year M. Sc Echocardiography Degree Examination - OCT-2019

[Time: 3 Hours]

[Max. Marks: 100]

### **PHYSICS AND INSTRUMENTATION, EQUIPMENT, APPLICATIONS AND ERROR**

#### **ANALYSIS – RS 2**

**Q.P. CODE: 9752**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

**Long Essay****2 X 15 = 30 Marks**

1. Discuss in detail about transducer and its applications in clinical practice.
2. Discuss the principles involves in the generation of ultrasound image in detail.

**Short Essay****7 X 10 =70 Marks**

3. Brief note on quality control.
4. Biological effects of ultrasound in detail
5. Discuss artefacts that can occur during 2D and Doppler echocardiography.
6. Discuss resolution – types and its applications.
7. Signal processing
8. Contrast echocardiography and its applications
9. Brief note on technique of PISA.
10. How do you store and retrieve Echocargraphic images?

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