

[LJ 1016]

OCTOBER 2016

Sub. Code: 3001

**FELLOWSHIP IN ULTRASOUND (OBGYN) EXAMS  
FIRST YEAR  
PAPER I – BASICS OF ULTRASOUND**

*Q.P. Code: 233001*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe in detail various interaction of ultrasound with tissue.
2. Define artifact. Describe in detail about artifacts in USG imaging.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Transducers.
2. Spatial resolution.
3. Define Doppler effect.
4. Various modes of USG.
5. PRF.
6. Mean, mode, median.
7. Ultrasound contrast agents.
8. Coupling agents.
9. Mechanical index and thermal index.
10. USG guided therapeutic procedures.

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