

[LN 1018]

OCTOBER 2018

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. What is Doppler shift and how the same is applied in colour, power and pulse wave Doppler?
2. Explain in detail different types of transducers.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Spectral broadening.
2. Sample width.
3. Aliasing.
4. Thermal index.
5. USG contrast agents.
6. Propagation sound in tissue.
7. Attenuation.
8. Modes of image display.
9. Frame rate.
10. Acoustic shadowing and enhancement.

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