

[LK 0517]

MAY 2017

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 are the physical effects of sound in tissues? Discuss about Mechanical index and Thermal index.
2. Define artifact. Discuss in detail about USG artifacts and means of preventing them.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Consent in ultrasound practice.
2. Safety of ultrasound in obstetrics.
3. Contrast agents in ultrasound.
4. Coupling agents in USG.
5. Attenuation of sound energy in different tissues and their implications.
6. PRF.
7. PCPNDT act, form a, b, c, d, e, f and g and their importance.
8. USG frequency and its importance.
9. Tissue harmonic imaging.
10. Standard deviation.

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