

[LL 1017]

OCTOBER 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. Describe the components of transducer with diagram.
2. Describe the different types of resolution and its significance with examples. How can they be improved?

II. Write notes on:

(10 x 6 = 60)

1. Mechanical index.
2. Refraction and its artifact with example.
3. Attenuation and its prevention.
4. Spatial compounding.
5. Differences between color doppler (CD) and power doppler (PD) flow.
6. Information from spectral waveform.
7. Aliasing, methods of correction and its application.
8. Contrast agents in ultrasound.
9. Correlation and regression.
10. Difference between depth and zoom.
