

## Model questions for Science Faculty Papers

B.Sc. II (2021)

**Note:**

1. Each paper of a subject will be combined to make a single question booklet.
  2. The question booklet will have 75 multiple choice questions of which a candidate will have to attempt 50.
1. हर विषय के सभी पत्रों को मिलकर एक प्रश्न पुस्तिका बनाई जाएगी ।
  2. प्रश्न पुस्तिका में ७५ बहुविकल्पीय प्रश्न होंगे जिनमे से अभियार्थी को ५० प्रश्न करने होंगे ।

Model questions for each subject are provided below:-  
प्रत्येक विषय के माडल प्रश्न निम्नलिखित हैं :-

## B.Sc. II Electronics

1. In baseband signal the audio frequency signal range is:

- A. 0 – 20 KHz
- B. 10 – 20 KHz
- C. 5 – 10 KHz
- D. 0 – 20 KHz

2. The dc current gain in common collector configuration is given by:

- A.  $\alpha$
- B.  $\beta$
- C.  $\beta + 1$
- D.  $\alpha + 1$

3. Oscillators must employ:

- A. Positive feedback
- B. Negative feedback
- C. Neither negative nor positive feedbacks
- D. None

4. The ripple factor of a bridge rectifier is:

- A. 0.482
- B. 0.812
- C. 1.11
- D. 1.21

5. Total phase shift in the RC oscillator is:

- A. 0
- B. 180
- C. 270
- D. 90

6. The double sideband suppressed carrier comes under \_\_\_\_\_ modulation.

A. frequency modulation

B. phase modulation

C. Amplitude modulation

D. Digital pulse modulation