

Model questions for Science Faculty Papers

B.Sc. III (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. III Electronics

1. The dominant TE mode in rectangular waveguides is:

A. TE_{01}

B. TE_{11}

C. TE_{20}

D. TE_{10}

2. Op-amp has _____ gain.

A. High

B. Low

C. Zero

D. Medium

3. In an Op-amp the common mode gain is _____

A. very high

B. very low

C. always unity

D. unpredictable

4. Which among following is universal logic gate?

A. NOR

B. AND

C. XOR

D. NOT

5. $(9A2)_{16} + (209)_{16} =$

A. BAC

B. COB

C. AAA

D. BAB

6. 8085 microprocessor has

A. 40 pins

B. 20 pin

C. 14 pin

D. 60 pin

7. Which one of the following signal is used to latch address on 8085 address/data bus?

A. S₀, S₁

B. ALE

C. $\overline{IO/\overline{M}}$

D. \overline{WR}

8. The propagation constant of a transmission line with impedance and admittance of 9 and 16 respectively is:

A. 25

B. 144

C. 12

D. 7