No. of Printed Pages : 2

B.Sc. II Semester (NEP) Degree Examination, September/October - 2022 **ELECTRONICS**

Electronic Circuits

Time : 3 Hours

Note : Answer all Sections.

SECTION - A

- 1. Answer the following questions.
 - What is power supply ? (a)
 - What is filter ? (b)
 - Define operating point. (c)
 - Define Stability factor. (d)
 - (e) What is Amplification ?
 - What is Cascaded Stage ? (f)
 - (g) What is decibel?
 - What is ripple factor ? (h)
 - (i) What is regenerative feedback ?
 - What is monolithic IC regulator ? (j)

SECTION - B

Answer any four :

- 2. With neat circuit diagram explain the zener diode voltage regulator.
- 3. Explain Base resistor method transistor biasing.
- 4. Classification of amplifiers on the basis of parameters.
- 5. What is Darlington pair transistor ? Explain it.
- 6. With neat block diagram explain transistor audio power amplifier.
- 7. Define positive and negative feedback amplifier and merits of it.

P.T.O.

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Maximum Marks: 60

10x1 = 10

4x5=20

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SECTION - C

Answer any three.

- **8.** Explain the working of centre tapped Full Wave rectifier. Obtain the expressions for the efficiency.
- **9.** Explain the working of emitter-feedback biasing network and obtain different expressions.
- **10.** Explain the working of transformer coupled amplifier and discuss the frequency response.
- **11.** Explain the working of Class-B push-pull amplifier obtain the expression for the power efficiency.
- **12.** Define the expression for the voltage gain of the negative feedback amplifier. Mention its merits.
- **13.** Write a short note on :
 - (a) 78 XX Series regulators
 - (b) Hybrid parameters

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3x10=30

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