

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2021-COURSE)
B. Tech. Sem - II MECHANICAL :SUMMER- 2022
SUBJECT : ELECTRONICS ENGINEERING SYSTEMS

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 3/8/2022

S-24067-2022

Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Assume suitable data if necessary.
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Q.1 Differentiate half rectifier, centre tap full wave and bridge rectifier. [10]

OR

Q.1 Draw a construction diagram of DIAC and explain it. [10]

Q.2 Explain logic gates with truth table and their symbol. [10]

OR

Q.2 Describe the operation of 8:1 multiplexer with its logical diagram. [10]

Q.3 Draw a circuit diagram of any one type of digital to analog converter and explain it. [10]

OR

Q.3 Explain of Op-Amp as summing amplifier with diagram [10]

Q.4 Explain MODEM with its types in detail. [10]

OR

Q.4 Explain AM receiver with its diagram in detail. [10]

Q.5 Classify the types of transducer in detail. [10]

OR

Q.5 Explain the operation of thermocouple with diagram. [10]

Q.6 Draw a block diagram of microcontroller and explain it. [10]

OR

Q.6 Draw a block diagram of microprocessor and explain it. [10]

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