

SECTION-B

Note: Objective type questions. All questions are compulsory (5x1=5)

- Q.6 A _____ signal is discrete in nature.

Q.7 A full adder can add _____ number of bits.

Q.8 A counter is a _____ circuit consisting of a combination of flip flops used for counting pulses.
(Combination/Sequential)

Q.9 Full form of SISO _____

Q.10 A.A=

SECTION-C

Note: Short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

- Q.11 Write the differences between synchronous and asynchronous counters.
 - Q.12 Explain De Morgan's theorem.
 - Q.13 Differentiate between RAM and ROM.
 - Q.14 Explain Half adder with circuit diagram.
 - Q.15 Write a short note on SSI, MSI, LSI and VLSI.
 - Q.16 Describe JK Flip Flop.
 - Q.17 Explain about encoder with block diagram.
 - Q.18 Discuss principle and working of seven segment display.

SECTION-D

Note: Long answer type questions. Attempt any one question out of two questions. (1x10=10)

- Q.19 Explain in detail the working of SIPO shift register.

Q.20 What are logic gates? Explain all logic gates with symbol and Truth Table.

No. of Printed Pages : 2

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**Level 4 / 2nd. Sem. / DVOC
Medical Imaging Tech., SD
Subject : Digital Electronics**

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Multiple-choice questions. All questions are compulsory (5x1=5)

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