ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET – 10

TOPIC – LOGIC GATES & COMBINATIONAL CIRCUITS

SUBJECT: COMPUTER APPLICATION **CLASS: XII**

F.M.: 15 **DATE: 13.05.2020**

➢ **Choose the correct option:** **(1X15=15)**

1) An octal to binary encoder circuit has how many input lines?:
(a) 4 (b) 6 (c) 8 (d) 10

2) A decimal to binary encoder circuit has how many input lines?:
(a) 4 (b) 6 (c) 8 (d) 10

3) An octal to binary encoder circuit has how many output lines?:
(a) 3 (b) 6 (c) 8 (d) 10

4) A decimal to binary encoder circuit has how many input lines?:
(a) 4 (b) 6 (c) 8 (d) 10

5) Encoder is functionally opposite to:
(a) Multiplexer (b) De-multiplexer (c) Decoder (d) None of these

6) Encoder is a/an _____ circuit:
(a) Even (b) Combinational (c) Sequential (d) None of these

7) The number of OR gates required for octal to binary encoder is:
(a) 4 (b) 0 (c) 8 (d) 3

8) The number of AND gates required for octal to binary encoder is:
(a) 4 (b) 0 (c) 8 (d) 3

9) The number of OR gates required for decimal to binary encoder is:
(a) 4 (b) 0 (c) 8 (d) 3

10) The number of AND gates required for decimal to binary encoder is:
(a) 4 (b) 0 (c) 8 (d) 3

11) If we record any music in any recorder, such types of process are called _____:
(a) Multiplexing (b) Decoding (c) Demultiplexing (d) Encoding

12) How is an encoder different from a decoder?:
(a) The output of an encoder is a binary code for 1-of-N input
(b) The output of a decoder is a binary code for 1-of-N input
(c) The output of an encoder is a binary code for N-of-1 output
(d) The output of a decoder is a binary code for N-of-1 output

13) Which of the following are building blocks of encoders?:
(a) NOT gate (b) OR gate (c) AND gate (d) NAND gate

14) Device which converts an input device state into a binary representation of ones or zeros is termed as:
(a) Multiplexer (b) De-multiplexer (c) Decoder (d) Encoder

15) How many OR gates are requires for a Decimal-to-BCD encoder?:
(a) 2 (b) 4 (c) 6 (d) 8

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