17 Lecture - CS302

Important Mcqs

1.	A) Converts 8-bit code to 3-bit output B) Converts 3-bit code to 8-bit output C) Converts 2-bit code to 4-bit output D) Converts 4-bit code to 2-bit output
Ar	nswer: B) Converts 3-bit code to 8-bit output
2.	How many inputs does the 74xx138 decoder have? A) 1 B) 2 C) 3 D) 4
Answer: C) 3	
3.	How many outputs does the 74xx138 decoder have? A) 4 B) 6 C) 8 D) 10
Answer: C) 8	
4.	What is the maximum number of inputs that can be decoded by the 74xx138 decoder? A) 4 B) 6 C) 8 D) 10
Answer: C) 8	
5.	What is the active output for the input code 001 in the 74xx138 decoder? A) Y0 B) Y1 C) Y2 D) Y3
Answer: D) Y3	
6.	What is the active output for the input code 111 in the 74xx138 decoder?

A) Y0

- B) Y1
- C) Y6
- D) Y7

Answer: D) Y7

7. What is the function of the enable input in the 74xx138 decoder?

- A) To enable the decoder to function
- B) To disable the decoder
- C) To select the input code
- D) To select the output

Answer: B) To disable the decoder

- 8. What is the function of the active-low output in the 74xx138 decoder?
 - A) Inverts the output signal
 - B) Disables the output signal
 - C) Enables the output signal
 - D) None of the above

Answer: A) Inverts the output signal

- 9. What is the maximum number of output lines that can be enabled in the 74xx138 decoder?
 - A) 1
 - B) 2
 - C) 3
 - D) 8

Answer: C) 3

- 10. What is the function of the address decoder in a digital circuit?
 - A) Converts binary codes to analog signals
 - B) Converts analog signals to digital codes
 - C) Decodes memory addresses to select a specific memory location
 - D) None of the above

Answer: C) Decodes memory addresses to select a specific memory location