

MODEL QUESTION PAPER SET- 1 : 2021 - 22

MM : 50

ELECTRONIC - II (THEORY)

Time : 3 Hrs

Entire Syllabus

- Q1. (A) Select the correct alternatives 4M**
- (1) A counter type is converter
(a) A/D (b) D/A (c) Low/High (d) Infinite
- (2) A Ring counter is a Counter
(a) Synchronous (b) Asynchronous (c) Master & Slave (d) Left shift
- (3) The Half Adder is a logic circuit which can add Bits
(a) 2 (b) 3 (c) 4 (d) 5
- (4) Fan out of TTL family is
(a) 10 (b) 20 (c) 50 (d) 100
- Q.1 (B) Answer Any Two from Following 6M**
- (1) Explain term
(a) Propagation delay (b) Power Dissipation
(c) Figure of Merit
- (2) Explain Working of SAR – ADC converter
- (3) Draw & Explain NAND & EX-OR Gate
- Q.2 (A) Answer Any Two from Following 6M**
- (1) Draw & Explain working 8 : 1 multiplexer
- (2) Draw & Explain Decimal to BCD Encoder
- (3) Comparison of Mux & De-Mux
- Q.2 (B) Answer Any one of following 4M**
- (1) Explain working Adder/Subtractor
- (2) Draw & Explain with truth table TTL NOR
- Q.3 (A) Answer Any Two from Following 6M**
- (1) Explain Nand as universal Gate
- (2) Convert (928) 10 into Hexadecimal (?) 16
- (3) Explain Working of R-S Flip Flop
- Q.3 (B) Answer Any one of following 4M**
- (1) Explain With circuit UP & DOWN Counter
- (2) perform 15-3 & 3-15 by using 2's complement method
- Q.4 (A) Answer Any Two from Following 6M**
- (1) Explain Different Types of ROM
- (2) Explain Working of Master & Slave J-K Flip Flop
- (3) Draw & Explain Block diagram of computer

- Q.4 (B) Answer Any one of following 4M**
- (1) Explain Weighted - Resistor D/A Converter
 - (2) Explain Working of Decade Counter (MOD-10)
- Q.5 (A) Answer Any Two from Following 6M**
- (1) Explain With Block Diagram Full Adder
 - (2) Draw & Explain BCD to Decimal decoder
 - (3) Explain Working of Ring counter
- Q.5 (B) Answer Any one of following 4M**
- (1) Explain Working of R-2R ladder D/A converter
 - (2) Draw & Explain with truth table Demorgans 1st & 2nd Theorem

Together we will make a difference