Scheme - I

Sample Question Paper

Program Name : Electronics and Computer Engineering Program Group

Program Code : CO/CM/CW/DE/EJ/ET/EN/EX/IE/IS/IC/MU

Semester : Third

Course Title : Digital Techniques

Marks : 70 Time: 3 Hrs.

Instructions:

(1) All questions are compulsory.

(2) Blustrate your answers with neat sketches wherever necessary.

(3) Figures to the right indicate full marks.

(4) Assume suitable data if necessary.

(5) Preferably, write the answers in sequential order.

Q.1) Attempt any FIVE of the following.

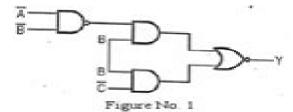
10 Marks

- Write the base of the following number systems: Decimal, Binary, Octal, and Hexadecimal.
- b) Draw symbol and write the truth table of JK flip flop.
- c) State the necessity of multiplexer.
- d) Write excitation table of D flip flop.
- e) List any two specifications of IC-DAC 0808.
- f) Draw three variable K-map format.
- g) Define modulus of a counter? Write down the number of flip flops required for mod-5 counter?

Q.2) Attempt any THREE of the following.

12 Miariks

For the given figure No. 1, derive the Boolean expression of Y.



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Xiaolong Qi

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