



MONAD UNIVERSITY
ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

Established by UP State Govt. Act. No. 23 of 2010, & U/S 2(f) of UGC Act. 1956
N.H-24, Delhi Hapur Road, District Hapur-245101, (U.P.) India
www.monad.edu.in

Programme:-B.Tech. (EC) –Vth Sem
Course:- Engineering Managerial Economics (EME-351)

Assignment No:- 2

Due date of submission:- 23.10.2017

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, programme and Enrolment No. clearly at the top of this page.

Ques. No: - 1.

- (a) You are aware of the business fluctuations in the economy, now discuss about the phases of business cycle.
- (b) As you are familiar to the concept of Monetary Economics, now discuss about the merits and demerits of Demonetization in the Economy.

Ques. No.:- 2.

- (a) Discuss about the concepts of Fixed Cost, Variable Cost, Average Cost, Marginal Cost and Opportunity Cost.
- (b) Define Managerial Economics with its scope in engineering perspective.



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Programme:-B.Tech. (EC) –Vth Sem
Course:- Integrated Circuits (EEC-351)

Assignment No:- 2

Due date of submission:- 23.10.2017

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Q.1

- a) Sketch and explain universal gates using CMOS.
- b) Explain Schmitt Trigger

Q.2

- a) Sketch and explain 555 Timer.
- b) Explain the working of a Phase locked loop. Also write its Applications.



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Programme:-B.Tech.(EC) – Vth Sem
Course:- Principle of Communication (EEC-352)

Assignment No:- 2

Due date of submission: 23.10.2017

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Question No. 1.

(a) I know you are aware about Digital Transmission then explain Digital Transmission of Analog Signals with examples.

(b) You know about Sampling Theorem then give the overview of Sampling Theorem and its applications with diagram.

Question No. 2.

(a) You know about Line Coding then explain Power Spectral density of Line Coding.

(b) As you are aware about Noise then define the Source of Noise and Frequency domain representation of Noise.



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Programme:-B.Tech. (EC) – Vth Sem
Course:- Microprocessor (EEC-353)

Assignment No:- 2

Due date of submission: 23.10.2017

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Q.1

- a) I know you are aware about 8086 microprocessor then define the Bus Interface Unit and Execution Unit of 8086 microprocessor.
- b) Define the term Register Organization, Sequential Memory Organization and Bus Cycle.

Q.2

- a) I know you are aware about Arithmetic Logic operation then define Arithmetic and Logic Instruction, Program Control Instructions (Jumps, Conditional Jumps and Subroutine Call) of microprocessor.
- b) Give the Brief idea of Microcontroller 8051 with the help of diagram.



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Programme:-B.Tech. (EC) –Vth Sem
Course:- Antenna and Wave Propagation (EEC-354)

Assignment No:- 2

Due date of submission:- 23.10.2017

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Q.1

- a) You know about antenna Dipole then State the Electric Dipoles, Thin Liner Antennas and Arrays of Dipoles and Apertures.
- b) You know about the Reflector Antennas then write short notes on Flat Sheet Reflectors and Corner Reflectors.

Q.2

- a) I know you are aware about Sky Waves then Write about Refraction and Reflection of Sky Waves by ionosphere.
- b) I know you are aware about Propagation then define Ground Wave Propagation with examples.



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Programme:-B.Tech. (EC) –Vth Sem
Course:- Control System (EEC-355)

Assignment No:- 2

Due date of submission:- 23.10.2017

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Q.1

- a) Explain Routh Hurwitz criterion with the help of examples.
- b) Sketch and explain bode plots.

Q.2

- a) Explain Nyquist stability criterions.
- b) Derive an expression for the transient response of a second order closed loop control system.