



**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](http://www.monad.edu.in)

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Program:-B.Tech (EC) - VI Sem  
Course: Industrial Management (EEC-361)

Assignment No: 2

Due date of submission: 20.04.2018

**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.

**Question:-1**

- a) You know that Quality Control & Total Quality Management are two different things. You will learn more if you define both of them & differentiate between them.
- b) Describe the various methods of controlling industrial pollution.

**Question:-2**

- a) “Many productive activities and technologies that we use have a disastrous impact on mankind” Comment.
- b) What do you understand by Acceptance Sampling? Explain the methods of double sampling & sequential acceptance sampling.



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Program:-B.Tech (EC) - VI Sem  
Course: Digital Communication (EEC-362)

Assignment No: 2

Due date of submission: 20.04.2018

**Instructions**

4. Write the responses to the assignment in your own handwriting.
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**Q.1**

- a) You know about sampling theorem then discuss about the role of sampling theorem in Digital Communication.
- b) You know about linear prediction then explain the use of linear prediction in sampling theorem.

**Q.2**

- a) I know you are aware about ISI then explain the nyquist criterion for pulse shaping to avoid ISI.
- b) I know you are aware about channel capacity then explain Shannon Hartley theorem on the basis of channel capacity.



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Program:-B.Tech (EC) - VI Sem  
Course: Digital Signal Processing (EEC-363)

Assignment No: 2

Due date of submission: 20.04.2018

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**Q.1**

- a) Write the Properties of the DFT.
- b) Explain Circular Convolution.

**Q.2**

- a) Explain Decimation in Frequency (DIF) Algorithm.
- b) Write the differences between Linear and circular Convolution.



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Program:-B.Tech (EC) - VI Sem  
Course: Microwave Engineering (EEC-364)

Assignment No: 2

Due date of submission: 20.04.2018

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**Q.1**

- a) Explain Reflex Klystron.
- b) Sketch and explain Backward Wave Oscillator.

**Q.2**

- a) Explain IMPATT Diode.
- b) Sketch and explain TRAPPAT Diode.



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Program:-B.Tech (EC) - VI Sem  
Course: Microcontroller (EEC-365)

Assignment No: 2

Due date of submission: 20.04.2018

Instructions

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Q.1

- a) You know about the 8051 then explain the use of SFR available in 8051 also write different types of SFR.
- b) You know about the flag of microprocessor then explain the difference between carry flag and OV flag.

Q.2

- a) You know about the pointers in 8051 then explain the use of each pointer in 8051 microprocessor.
- b) I know you are aware about the registers available in 8051 then explain the functions of 8051 registers.



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Program:-B.Tech (EC) - VI Sem  
Course: Introduction to Electronic Devices (EEC-366)

Assignment No: 2

Due date of submission: 20.04.2018

**Instructions**

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**Q.1**

- a) Explain V-I characteristics and applications of Tunnel Diode.
- b) Sketch and explain SCR.

**Q.2**

- a) Explain the working of an n-channel MOSFET.
- b) Sketch and explain LED.