



MONAD University
N.H. 24, Delhi Hapur Road,
Village & Post Kastla, Kasmabad, P.O Pilkhuwa - 245304,
Dist. Hapur (U.P.), India

Assignment No: 2

Programme (Branch)/Sem:.....

Course Name:-.....

Submitted by :-

Candidate's Name:.....

Enrollment No.:-

Roll No. :-

Date of Submission:-

Submitted to:-

.....



**MONAD
UNIVERSITY**
Established by UP State Govt. Act 23 of 2010
& UIS 2 (f) of U.G.C. Act 1956

Programme: B.Tech (ALL-Ist Sem.)

Course Name: Engineering Physics-I

Course Code: BS-111

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 Enrollment No. clearly at the top of page.

Question No. 1.

- a) Discuss the salient features of pure rotational spectra.
- b) Describe Newton's ring method to determine the wavelength of sodium light.

Question No. 2.

- a) Distinguish between Fresnel and Fraunhofer classes of diffraction. Show that the area of each Fresnel half-period zone is same.
- b) Discuss the vibrational spectra of a diatomic molecule treating it as an harmonic oscillator.



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Programme: B.Tech (ALL-Ist Sem.)
Course Name: Engineering Mathematics-I
Course Code: BS-112
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 Enrollment No. clearly at the top of page.

Question No. 1.

- a) Trace the curve $9ay^2 = x(x - 3a)^2, a > 0$.
- b) Trace the curve $r = a \sin 2\theta$.

Question No. 2.

- a) Change the order of integration $\int_0^2 \int_1^{e^x} dx dy$.
- b) Using double integration, find the area of the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$.



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Programme: B.Tech (ALL-Ist Sem.)

Course Name: Engineering Chemistry

Course Code: BS-113

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 Enrollment No. clearly at the top of page.

Question No. 1.

- a) Define the term Isomerism. Explain different types of isomerism in details.
- b) Define and explain the properties of plain polarized light.

Question No. 2.

- a) What is hardness? Explain different types of hardness.
- b) Explain different types of water softening methods.



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Programme: B.Tech (ALL-Ist Sem.)

Course Name: Fundamentals of Computers and Programming

Course Code: ES-115

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 Enrollment No. clearly at the top of page.

Question No. 1.

- a) As you are aware of the generations of Computer. You can explain all the generations of computer with their merits & demerits of each. Do it.
- b) As we have discussed about memory of the computer in the class session, now, define memory and differentiate Primary memory and Secondary memory with example.

Question No. 2.

- a) As you are aware of Tokens in C. So, you can explain different types of Tokens in C with example. Do it.
- b) As you are aware of basic concepts of Conditional Statements. So, you can WAP in C to check whether a given number is prime or not. Go ahead.



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Programme: B.Tech (ALL-Ist Sem.)

Course Name: Basics of Electrical Engineering

Course Code: ES-116

Assignment No: 2

Due date of submission: 23.10.2017

Instructions

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Question No. 1.

- a) Explain faradays experiment? What are faradays laws of electromagnetic induction? Differentiate between dynamically induced emf and statically induced emf?
- b) Explain why the hysteresis and eddy current losses occur in a transformer and how they can be reduced. Also write the factor on which these losses depend?

Question No. 2.

- a) Explain single phase autotransformer and give its application?
- b) Derive the expression for the electromagnetic torque develop in a d.c motor?



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Programme: B.Tech (ALL-Ist Sem.)
Course Name: Professional Communication
Course Code: DIP-111
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 Enrollment No. clearly at the top of page.

Question No. 1.

- a) Verbal communication is the first step of communication. Describe the importance of verbal communication.
- b) Listening is a basic element of communication. Give the difference between listening and hearing.

Question No. 2.

- a) As we are familiar with interpersonal communication skills. Write down some tips for improving interpersonal communication skills.
- b) Group discussion means expressing and exchanging views on a topic by the participating members. Write the basic purposes of Group Discussion.