J.S.University

Assignment For Diploma Engineering 1st SEM.

The Assignment will consist of two parts, A and B. Part A will have 5 short answer questions(40-60 words) of 4 marks each. Part B will have 2 long answer questions of 10 marks each

All questions are compulsory.

These Assignments should be completed and submitted in written form by the student to his/her respective Faculty/Examiner. Assignment Submission Dates are:

List Of Suggested Questions

The list of suggested questions are for students to practice. Although optional, we recommend that students solve these questions, as they will help them in preparing for exams as well as in clearing the important concepts of the subject.

List of Practicals and suggested practicals

The list of practical's should be done by the students in their Lab Sessions. These are the basic practical's, which each student should be able to do himself independently. While the list of suggested practicals are optional, but it is recommended that students should perform those practical so as to have a thorough knowledge of the subject

Education Delivery Schedule (EDS)

As per University Semester scheme, the minimum contact hours of each paper has been Divided into two hours theory and practical class.

The faculty will maintain this attendance paper wise for his/her batch.

J.S. UNIVERSITY

Cover page of Assignment

ID NUMBER	
NAME	
COURSE	DIPLOMA ENGG
STREAM	CS
SEMESTER	
SUBJECT CODE	
SUBJECT NAME	

Assignments will be completed by the Student in his/her own handwriting.

Subject Name

Professional Communication

Applied Mathematics

Applied Physics

Applied Chemistry

Component of Information Technology

DEME-101

Professional Communication

Part A

- 1. What is professionalism? Define with an example?
- 2. What are different barriers to communications?
- 3. What are psychological barriers?
- 4. What is premature Evaluation?
- 5. What are the seven Cs of Professionalism?

Part B

- 1. What are the ways by which we can remove noise in the communication?
- 2. What are the different ways by which we can reduce our hesitation of speaking?

DEME-102 [Applied MATHEMATICS] Part A

- 1. Resolve $\frac{1}{(x+1)(x+2)}$ into partial fraction.
- 2. Show that cot2xcotx cot3xcot2x cot3xcotx=1

3.Expand the Determinant 6 4

4. Find
$$\sin^2 \frac{\pi}{3} + \cos^2 \frac{\pi}{6} + \tan \frac{\pi}{4}$$

5.Expand $(2x + 5)^5$ by the Binomial Theorem

Part B

- 5 1. Find inverse of matrix 2
- 2. How many different words can we make using the letters A, B, E and L?

DEME-103 [Basics of Information Technology] Part (A)

- 1. Explain about Block Diagram of Computer and also draw the Figure.
- 2. Difference between DOS and Windows Operating System.
- 3. Difference between EPROM and EEPROM.
- 4. Explain about Generation of computer.
- 5. Explain about LAN, MAN, WAN

Part (B)

DEME-104 [Applied Physics]

Part A

- 1. What is dopplers effect? Deduce the expression of apparent frequency of sound for the relative motion between the source and observer.
- 2. Derive an expression of energy of plane progressive sound wave of sure form and hence obtain the expression for energy current (i.e., intensity of sound waves).
- 3. Differentiate between longitudinal and transverse waves. How are these produced.
- 4. What do you understand by superposition of waves? Under what conditions the stationary waves, beats are interference are produced.
- 5. State the characteristics of a plane progressive waves. Deduce the expression of simple harmonic.

Part B

- 1. Explain systematic and random errors with the help of an example.
- 2. What do you mean by dimension of physical quantity? Give the dimensions and units of energy,

DEME-105 [Applied Chemistry] Part A

- 1. What are quantum numbers and types of quantum numbers.
- 2. What is the difference between an orbit and an orbital's ? What do you know about porbital ? describe in brief.
- 3. Write a note on de-Broglie's equation.
- 4. State Pauli's exclusion principle.
- 5. Write the electronic configurations of atom cr, cu, zn, Fe, Na ca al, cl.

Part B

- 1. What is Electrochemical cell? Explain with example of Dexial cell
- 2. What is polymers and types of polymers?