Sai Nath University

Assignment For Diploma in CS 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:

> ➢ Nov-17

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.

Subject Code	Subject Name
DECSE-101	Communication Skills
DECSE-102	Engineering Mathematics
DECSE-103	Applied Physics
DECSE-104	Applied Chemistry
DECSE-105	Applied Physics Practical
DESCE-106	Applied Chemistry Practical

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Cover page of Assignment

ID NUMBER …………………………………

NAME …………………………………

COURSE …………………………………

STREAM …………………………………

SEMESTER …………………………………

SUBJECT CODE …………………………………

SUBJECT NAME …………………………………

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

DECSE-101

Communication Skills

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?

DECSE-102
[ENGINEERING MATHMATICS]
Part A

1. Resolve $\frac{5x+12}{(x+2)(x+3)}$ into partial functions.

2. Expand $(x2+2y)5$ by the binomial theorem.

3. Find the value of $(.98)-3$ up to 2 decimal places.

4. Prove that $\sin2\frac{\pi}{6} + \cos2\frac{\pi}{3} - \tan2\frac{\pi}{4} = -1/2$.

5. prove that $\sin\frac{7\pi}{12}\cos\frac{\pi}{4} - \cos\frac{7\pi}{12}\sin\frac{\pi}{4} = \frac{\sqrt{3}}{2}$

Part B

1. Expand the determinant $\begin{matrix} 6 & 2 & 3 \\ 2 & 3 & 5 \\ 4 & 2 & 1 \end{matrix}$

2. show that cot2xcotx - cot3xcot2x - cot3xcotx=1

DECSE-103
[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,

DECSE-104
[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 p-orbital ? 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?

DECSE-105 [__HkkSfrd foKku__]
Part A

1- ofuZ;j dSfyilZ dh Igk;rk ls fn, x, Bksl inkFkZ dh f=T;k ¼Diameter½ Kkr djukA

2- ofuZ;j dSfyilZ dh Igk;rk ls fn, x, [kks[kys ¼flysf.Mªdy½ inkFkZ dh xgjkbZ Kkr djukA

3- Ldzwc xst dh Igk;rk ls fn, x, rkj dh eksVkbZ izkIr djukA

4- Ldzwc xst dh Igk;rk ls fn, x, /kkrq ¼Metalic Sheet½ i= dh eksVkbZ Kkr djukA

5- LQsjksehVj }kjk fdlh voryh;@mRryh; inkFkZ dh m¡pkbZ rFkk xgjkbZ Kkr djukA

Part B

1- fCgVLVksu lsrq ¼ehVj czht½ dh Igk;rk ls nks vyx&vyx izfrjks/k ds rkjksa dks lekUrj rFkk Øekxr Js.kh esa tksM+dj mudk izfrjks/k Kkr djukA

2- vkse ds fu;e dk lR;kiu fn, gq, pkyd rkj dk izfrjks/k Kkr dj djukA

DECSE-106 [__jlk;u foKku__]
Part A

1. M/10 eksyjrk dh IkUnzrk dk vkDlsfyd vEy rS;kj djukA

2. M/10 eksyjrk dh IkUnzrk okys vkDlsfyd vEy dk vuqekiu ¼KMnO4½ iksVSf'k;e ijeSXusV ds foy; ls djuk rFkk KMnO4 dh IkUnzrk ,oa mldh 'kfDr xzke@yhVj esa Kkr djukA

3- ljy yksyd ls xq:RoRoj.k g dk eku Kku djukA

4- vuqukn ufydk ls 0^0C ij ok;q esa /ofu dk osx fudkyukA

5- tsuj ¼Zecner diode½ Mk;ksM dh Igk;rk ls fjolZ czsd Mkmu cksYVst ¼Reverse Break down Voltage½ dh fo'ks"krk oØ js[kk f[kpukA

Part B

1- lkUnz {kkj ¼NaOH½ rFkk lkUnz vEy ¼HCL½ ds ruqrk dk v/;;u djukA

2- ¼M/80 KMnO4½ ¼iksVSf'k;e ijeSXusV½ dh eksyjrk dk foy;u rS;kj djuk rFkk mldk vuqekiu fn, x, vkDlsfyd vEy ls vuqekiu fof/k }kjk djukA