Sai Nath University

Assignment For Diploma in electrical Engineering 4th 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/ Examiners. 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 Practical and suggested practical's

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

DEE 1	**ELECTRICAL MACHINE -1**
DEE 2	**ELECTRICAL ENGINEERING DESIGN AND DRAWING - II**
DEE 3	ENERGY SOURCES AND MANAGEMENT OF ELECTRICAL ENERGY
DEE 4	ELECTRONICS - II
DEE 5	INSTRUMENTATION
DEE 6	ESTIMATING AND COSTING IN ELECTRICAL ENGINEERING

SAI NATH UNIVERSITY

Cover page of Assignment

ID NUMBER	……
NAME	……
COURSE	Diploma Engineering
STREAM	ELECTRICAL……
SEM	4th……
SUBJECT CODE	……
SUBJECT NAME	……

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

ELECTRICAL MACHINE -1

Assignment

SEC A

Q 1 Explain Definition of motor and generator ?

Q 2 Explain Main constructional features of dc machine ?

Q 3 Explain Types of dc generation on the basis of excitation ?

Q 4 Explain Significance of back e.m f of dc motor ?.

Q 5 Explain Armature Reaction of dc motor ?

Sec B

Q 1 Explain Working principle of a transformer ?

Q 2 Explain Open circuit and short circuit test of transformer ?

ELECTRICAL ENGINEERING DESIGN AND DRAWING - II

Assignment

SEC A

Q 1 Design of circuit drawing of schematic diagram and power wiring diagram of DOL starting of 3-phase induction motor?

Q 2 Design of circuit drawing of schematic diagram star delta starter for 3-phase induction motor ,

Q 3 Explain the **Concept and purpose of earthing ?**

Q 4 Draw schem diagram of plate and pipe earthing ?.

Q 5 Explain the method of reducing earth resistance?

Sec B

Q 1 Draw schem diagram of 11KV, 33Kv, sub-stations?

Q 2 draw lap winding of D C machine ?

ESTIMATING AND COSTING IN ELECTRICAL ENGINEERING

Assignment

SEC A

Q 1 Explain the short information of Cleat, batten, casing capping and conduit wiring?

Q 2 Explain the comparison of different wiring systems?

Q3 Explain the wiring installation before commissioning, standard practice as per IS and IE rules

Q 4 Draw schem diagram of Planning of circuits, sub- circuits and position of different accessories, electrical layout,?

Q 5 Draw preparing estimates including cost as per schedule rate pattern and actual market rate (for house of two room set along with layout sketch)?

Sec B

Q 1 Draw schem diagram and preparation of list of materials, estimating and costing exercises on workshop with singe-phase, 3-phase motor load and the light load (3-phase supply system)?

Q 2 calculate estimating and costing of Transmission and distribution lines (overhead and underground) planning?

ENERGY SOURCES AND MANAGEMENT OF ELECTRICAL ENERGY

Part A

1 Qus. What is the importance of non conventional sources of energy?

2 Qus. Describe the working of solar furnace ?

3 Qus. Describe the Bio-mass conversion technologies- wet and dry processes?

4 Qus. Write the short note on Magneto Hydro Dynamic (MHD) Power Generation?

5 Qus.what is Wind energy conversion

Part B

1 Qus. Explain the Design and operating principles of a fuel cell?

2 Qus. What is the Need for energy conservation with brief description of oil and coal crisis.

ELECTRONICS - II

Part A

1 qus. What is the Difference between voltage and power amplifier?

2 qus. Describe the Classification of power amplifier class A, B and C?

3 qus. What is the working of Heat sinks in power amplifiers?

4 qus what is the advantage of Push-pull amplifier:?

5 qus. What is Tuned Voltage Amplifier?

Part B

1 qus what is positive and negative feedback and their need?

2 qus. Write the short note on Emitter follower and its applications?

INSTRUMENTATION

Part A

1 qus. Explain the piezo electric type transducer?

2 qus. Describe the Different types of force measuring devices and their principles?

3 qus. What is the Use of pressure cells? Explain

4 qus. What is the Basic principles of ultrasonic flow meters?

5 qus. Write the difference between thermocouple and thermisters?

Part B

1 qus. What is the Bourdon pressure gauges?

2 qus. Write the short note on LVDT?