J.S University

Assignment For Btech electrical Engineering 3rd 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 of10 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:

- DEC

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 forexams 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 thebasic 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
BTAS 31	ENGG. MATHMATICS 3
BTME 35	THERMAL AND HYDROLIC MACHINE
BTEE 31	ELECTROMACHENICAL ENERGY CONVERSION
BTEE 32	E.M.M.I
BTEE 33	BASIC SYSTEM ANALYSIS
BTIP 31	INDUSTRIAL PHYCHOLOGY
BTAC 31	HUMEN VALUE

J S UNIVERSITY

Cover page of Assignment

ID NUMBER ……

NAME ……

COURSE B.TECH …

STREAM ELECTRICAL……

SEM 3RD ……

SUBJECT CODE ……

SUBJECT NAME ……

BTAS – 31

ENGG. MATHEMATICS – III

PART – A

1. What is the analytic function and properties of analytic function ?

2. Differentiation $\log(\sin\sqrt{x^3})$.

3. Solve $\int tanx\ dx$.

4. Solve $\int e^x\ sinx\ dx$.

5. Solve $\int \sin 2x \sin 3x \sin 4x\ dx$.

PART – B

1. Consider the time series data given below.

x_i	8	3	2	10	11	3	6	5	6	8
y_i	4	12	1	12	9	4	9	6	1	14

Use the least square method to determine the line of best fit for the data then plat the line .

2.What do you mean by finite difference and what is the backward difference ?

BTIP 31 INDUSTRIAL
PSYCHOLOGY

PART-A

1. What is industrial psychology? Give examples of two roles that an industrial psychologist is likely to play in an organization.

2. Explain the following terms.

a. Central attitudes

b. Peripheral attitudes

c. Job satisfaction

d. Job involvement

e. Organization commitment

3. The characteristics involved can either be psychologically good or bad for the employees.

4. Explain the physical and psychological problems associated with unemployment or "bad" employment.

5. Discuss the various fields of industrial psychology.

PART-B

1. Discuss the various occupational oriented personality theories.

2. Highlight six of the things employees most wish to experience in their jobs and the work place in general.

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BTEE 32

[ELECTRICAL MEASUREMENT AND MEASURING INSTRUMENT]

Part A

1. What are the methods of measurement in measurement and instrumentation?

2. How many types of errors are there in analysis?

3. What is electrodynamic used for?

4. Does a thermocouple produce AC or DC voltage?

5. What are the different types of ammeters and voltmeters?

Part B

1. How the 3-phase power is measured by two wattmeter method?

2. What is CRO with block diagram?

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BTEE 33

[BASIC SYSTEM ANALYSIS]

Part A

1. What are the basic continuous time and discrete time signals?
2. How do we represent unit impulse signal in terms of unit step signals?
3. What is the difference between time shifting and time scaling?
4. What is difference between exponential Fourier series and trigonometric Fourier series?
5. What are the advantages of Laplace transform in network analysis?

Part B

1. What is the application of Laplace transform in signals and systems?
2. What is a homogeneous and non homogeneous equation in matrices?

BTME 35

THERMAL AND HYDROLIC MACHINE

PART-A

Q.1 What is mean by control volume and control surface?

Q.2 Differentiate between saturated liquid and compressed liquid.

Q.3 What is Carnot vapour cycle? Plot the same on T-s diagram

Q.4 Discuss Atkinson and Brayton cycle with P-V diagram

Q.5 Explain the process of steam generation and show the various stages on T-S diagram

PART-B

1. 1What do you understand by "Flow in open channel" ? Explain.

2. Define priming of a centrifugal pump and how it is done?

BTAC 31

[HUMEN VALUE AND PROFESSIONAL ETHICS]

PART A

1) EXPLAIN GUIDLINE CONTENT FOR PROCESS VALUE EDUCATION

2) WHAT IS THE SELF EXPLORATION

3) EXPLAIN METHOD OF FULLFILED THE HUMEN ASPIRATION

4) WHAT IS THE HARMONY OF HUMEN BEING

5) WHAT IS THE NEED OF SELF

PART B

1) WHAT IS THE NATURAL ACCEPTANCE OF HUMEN VALUE

2) CASE STUDY OF TYPICAL HOLISTIC TECHNOLOGIES