

**ManonmaniamSundaranar University,  
Directorate of Distance & Continuing Education,  
Tirunelveli - 627 012 Tamil Nadu, India**

**INTERNAL ASSIGNMENT FOR**

தமிழும்அறிவியலும் (J1TL41)

1.அ. அறிவியலில்மனிதவாழ்வுபெறுமிடத்தைக்கட்டுரைக்க.

அல்லது

ஆ. பழந்தமிழ்இலக்கியங்களில்உள்ளஅறிவியல்சிந்தனைகளைக்கட்டுரைக்க.

2. அ. சிற்றிலக்கியங்களில்உள்ளஅறிவியல்சிந்தனைகளைக்கட்டுரைவரைக.

அல்லது

ஆ. இணையத்தமிழ்கல்விக்கழகம்மற்றும்நூலகத்தின்செயல்பாட்டைவிவரிக்க

**General English – IV (J2EN41)**

1. a) Discuss the challenges faced by Adeline Yen Mah in *Chinese Cinderella*.

**OR**

b) Analyze the speech on *The Quality of Mercy* in *The Merchant of Venice*.

2. a) How does *Pride* by Dahlia Ravikovitch portray the hidden strength behind emotional vulnerability?

**OR**

b) Write a Welcome Address speech on the occasion of a literary conference at your college.

## Instrumentation Physics 2 - JNPH41

### **Assignment Question No:**

1. (a) Define multimeter. Discuss briefly the types of multimeters.

(or)

(b) Define transducer. Explain construction and working of piezoelectric transducer.

### **Assignment Question No:**

2.(a) Describe the construction and working of scanning electron microscope (SEM).

(or)

(b) Describe the construction and working of MRI. Differentiate between Fluoroscopy and Radiography

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**INTERNAL ASSIGNMENT FOR**

Maintenance of Electrical appliances -JSPH41

**Assignment Question No:**

1. (a) Explain the various types of soldering iron with neat sketch.

(or)

(b) Explain construction and working of SMP's. Differentiate between analog and digital multimeter.

**Assignment Question No:**

2.(a) Describe the construction and working of LED and LCD.

(or)

(b) Describe the construction and working of CRO.

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**INTERNAL ASSIGNMENT FOR**

Optics & Laser Physics -JMPH41

**Assignment Question No:**

1. (a) Explain construction and working of Huygen's and Ramsden eyepiece.

(or)

(b) Define Interference. Explain construction and working of Michelson Interferometer.

**Assignment Question No:**

2.(a) Describe the construction and working of a zone plate with necessary theory.

(or)

(b) Describe the construction and working of He-Ne laser. Mention the applications of laser in industry.

### **ValueBasedEducation-JVBE41**

1. a) Analyze the women rights in India.  
(or)  
b) Explain the concept and types of child abuse.
2. a) Examine the causes and effect of alcoholism and drug addiction.  
(or)  
b) Discuss the role of being a good citizen.

### **JECH41( Allied Chemistry)**

1. Explain IUPAC naming, Werner's theory, EAN rule, and Pauling's theory with examples. Define chelation and discuss the roles of hemoglobin and chlorophyll in biology.

(OR)

What is water hardness? Explain EDTA and zeolite methods for hardness determination. Define BOD and COD and describe their significance in water purification.

2. Explain galvanic cells, standard electrodes, and the electrochemical series. Discuss pH measurement, buffer solutions, and electroplating of nickel and chrome.

(OR)

Define order, molecularity, and derive rate laws for 1<sup>st</sup> and 2<sup>nd</sup> order reactions. Explain catalysis types, energy of activation, and industrial catalytic processes.