

## **IIITDM Kancheepuram - Recruitment of Non-Teaching Posts**

(Advt.No.IIITDMK/R/3/2019 Dated: 19th June, 2019 )

### **List of Shortlisted Candidates for screening test and Schedule of exams for the post of Junior Technician (PHYSICS)**

<b>Qualification and experience</b>	BSc. (Physics) or Equivalent
<b>Desirable</b>	Post qualification experience in handling of lab, Maintenance of scientific instrument etc.
<b>Additional Scrutiny criteria</b>	<b>55% throughout academic career</b>

#### **Application Numbers of Shortlisted Candidates**

1903JTP0001	1903JTP0032
1903JTP0005	1903JTP0035
1903JTP0007	1903JTP0036
1903JTP0010	1903JTP0037
1903JTP0013	1903JTP0039
1903JTP0018	1903JTP0040
1903JTP0021	1903JTP0042
1903JTP0023	1903JTP0043
1903JTP0024	1903JTP0045
1903JTP0025	1903JTP0046
1903JTP0026	1903JTP0047
1903JTP0027	1903JTP0048
1903JTP0031	1903JTP0049

#### **Schedule:**

<b>Level 1 exam :</b>	<b>13.12.19 (Friday) - 10:00 AM</b>	(Reporting Time: 08: 30 AM)
<b>Level 2 exam :</b>	<b>14.12.19 (Saturday) - 10:00 AM</b>	<i>Only for candidates qualified in Level 1 exam</i>
<b>Level 3 exam :</b>	<b>14.12.19 (Saturday) - 02:00 PM</b>	

#### **Note:**

All the shortlisted candidates are required to bring original mark sheets (SSLC onwards), degree certificates, experience certificates and valid community certificate (SC/ST/OBC/EWS) at the time of reporting. Employees serving in Govt. Organizations /autonomous bodies are to submit No Objection Certificate from the present employer. Only the Candidates satisfying the requirement will be permitted to attend the written Test.

## **Scheme of Examination**

### **I. Levels of Exams:**

#### **Level 1:**

All the shortlisted candidates shall write screening test carrying maximum of 100 Marks (Objective type).  
Maximum duration of exam: 2 hours

#### **Level 2:**

It is the subject knowledge test designed to test the candidate's knowledge in the concerned subject of specialization. The questions will be objective/descriptive type carrying maximum of 100 marks.  
Maximum duration of exam: 1 hour 30 minutes

#### **Level 3:**

It is the trade test to assess the practical knowledge of the candidate in the concerned subject carrying maximum of 100 marks.  
Maximum duration of exam: 1 hour 30 minutes

*\* The standard of questions for the tests will generally be in conformity with education standard prescribed for the post.*

### **II. Weightage of exams:**

#### **Level 1:**

Candidates securing the minimum qualifying marks shall be shortlisted for further evaluation process scheduled on the next day. In case of SC/ST candidates, the minimum qualifying marks is relaxable at the discretion of the competent authority. The marks secured in the screening test shall not be taken into account for preparation of final selection list.

#### **Level 2 & Level 3:**

Level 2 and Level 3 are of qualifying nature and merit list will be prepared based on the following allocation of weightage.

**Level 2 : 60% and Level 3: 40%**

*\*\* In case of tie, suitable criteria decided by duly constituted committee will be followed.*

#### **Note:**

Success in the examination confers no right of appointment unless the candidate fulfills all requirements of the institute.

## Syllabus of Examination

### Level 1:

Verbal Reasoning & Aptitude, General English, General Knowledge, Current affairs

### Level 2:

Mathematical Physics: Vector algebra, vector differentiation, vector integration, Curl, Divergence and Gradient, Stokes Theorem, Divergence Theorem

Waves and Optics: Simple Harmonic Oscillation, Damped and Forced Oscillator, Geometrical optics, Interference, Diffraction and Polarization, Lasers

Electricity and Magnetism: Electrostatics, electric potential, dielectric properties of matter, Magneto statics, Para magnetism, Dia magnetism, Ferro magnetism, Hysteresis loop, electromagnetic, Faraday's law, Induction, Electro motive force, Electrical Circuits (LC, LR, RC, LCR etc.)

Properties of matter: Surface tension, Viscosity, elasticity, stress, strain, Modulus of elasticity

Heat and Thermodynamics: Kinetic theory of gases, Equipartition theory, Maxwell Velocity distribution, Laws of Thermodynamics, Entropy, Heat engines

### Level 3 :

- Measurement of acceleration due to gravity
- Finding rigidity modulus of a string
- Experiments related to diffraction of light
- Air Wedge/Newton ring experiments
- Experiments performed using Prism-table
- Finding Magnetic susceptibility of a material