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**DHANALAKSHMI SRINIVASAN COLLEGE  
OF ARTS & SCIENCE FOR WOMEN  
(AUTONOMOUS)**

(For Candidates admitted from 2019-2020 onwards)

**PG DEGREE EXAMINATIONS APRIL - 2021**

**M.Sc., - BIOTECHNOLOGY**

**ADVANCED INSTRUMENTATION FOR BIOTECHNOLOGY**

**Time: 3 Hrs**

**Max.Marks: 75**

**PART - A**

**CHOOSE THE CORRECT ANSWER**

**(10X1=10)**

- Who had inverted the pH scale?
  - S.P.L.Soreson
  - Benjamin Franklin
  - Henry Moseley
  - Wilhelm Rontgen
- Molar absorptivities of compounds exhibiting charge transfer absorption are.....
  - Small
  - Moderate
  - Large
  - None of these
- Which of the following relationships between absorbance and %transmittance is incorrect?
  - $A = \log_{10} 100 / \% T$
  - $A = 2 - \log_{10} \% T$
  - $A = \log_{10} 1 / T$
  - All are correct
- In the past, IR spectra had to be acquired one wavelength at a time, which took a long time. Today quick spectra is due to the .....
  - The fourier transfer algorithm allows us to scan all frequencies at once
  - Light is faster today that it used to be
  - Absence of broad spectrum of wavelength
  - None of the above
- In the equation,  $A = \epsilon bc$ , what quantity is represented by " $\epsilon$ "?
  - Absorbivity
  - Molar absorptivity
  - Path length
  - None of these
- Driving force in case of filtration by a centrifuge is the.....
  - Speed of the centrifuge.
  - Centrifugal pressure exerted by liquid.
  - Narrow diameter of the vessel.
  - Formation of highly porous cake.
- The speed of migration of ions in electric field depends upon
  - Shape and size of molecule
  - Magnitude of charge and shape of molecule
  - Magnitude of charge shape and mass of molecule
  - Magnitude of charge and mass of molecule
- Agarose can be extracted from which of following?
  - Lycasusican esculentum
  - Ficum benghalensis
  - Gracilaria esculentus
  - Agrostis stolonifera

