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

(For Candidates admitted from 2020-2021 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)

1. In $500 \times g$, what does g represent in accordance to centrifugation?
 - a) Gravitational force
 - b) Centrifugal force is 500 times greater than earthly gravitational force
 - c) Centrifugal force is 500 times less than earthly gravitational force
 - d) Centrifugal force is 500 times same as that of earthly gravitational force
2. Which of the following centrifugation is used to separate certain organelles from whole cell?
 - a) Rate-zonal centrifugation
 - b) Normal centrifugation
 - c) Differential centrifugation
 - d) Isopycnic centrifugation
3. Which force is involved in the Chromatography?
 - a) Hydrogen bonding
 - b) London force
 - c) Electric static force
 - d) All of the above
4. In which Chromatography s.p. is more polar than m.p.?
 - a) Ion exchange
 - b) Liquid liquid Chromatography
 - c) Reversed chromatography
 - d) None of the above
5. The speed of migration of ions in electric field depends upon
 - a) Shape and size of molecule
 - b) Magnitude of charge and shape of molecule
 - c) Magnitude of charge shape and mass of molecule
 - d) Magnitude of charge and mass of molecule
6. Which of the following statements is true about migration of biomolecules?
 - a) The rate of migration is directly proportional to the resistance of medium
 - b) Rate of migration is directly proportional to current
 - c) Low voltage is used for separation of high mass molecules
 - d) Rate of migration is inversely proportional to current
7. Which of the following spectroscopy techniques is associated with molecular emission?
 - a) UV-Visible spectroscopy
 - b) IR spectroscopy
 - c) Fluorescence spectroscopy
 - d) X-ray diffraction

