



BRAINWARE UNIVERSITY

Term End Examination 2019 – 20

Programme – Bachelor of Pharmacy

Course Name – Physical Pharmaceutics I

Course Code – BP302T

(Semester – 3)

Time allotted: 3 Hours

Full Marks: 75

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group –A

(Multiple Choice Type Question)

20 x 1 = 20

1. Answer all the questions
 - (i) Solubility of a molecule in unionized form is known as
 - a. Buffered solubility
 - b. Un buffered solubility
 - c. Intrinsic solubility
 - d. None
 - (ii) According to USP, very soluble compound requires _____ part of solvent for 1 part of solute.
 - a. 1-10
 - b. <1
 - c. 30-100
 - d. 100-1000
 - (iii) Normality is
 - a. gram mole in 1 lit.
 - b. gram equivalent in 1 lit.
 - c. moles of solute in 1 kg solvent
 - d. none
 - (iv) Vapour pressure is exerted by
 - a. saturated vapour
 - b. unsaturated vapour
 - c. condensed liquid
 - d. All
 - (v) In water and vapour system, what will be the degree of freedom?
 - a. 2
 - b. 1
 - c. 0
 - d. 3

- (vi) Propellants are
- | | |
|----------------------------|----------------------------|
| a. liquid in high pressure | b. gaseous in low pressure |
| c. Both a & b | d. none |
- (vii) Relative humidity is measured in
- | | |
|---------------|-------------|
| a. gm/cc | b. mole/cc |
| c. percentage | d. mole/ kg |
- (viii) Polymorph have
- | | |
|-----------------------------------|----------------------------|
| a. Different solubility | b. Different melting point |
| c. Chemically identical structure | d. All |
- (ix) Birefringent property is observed in
- | | |
|----------------------|-------------------|
| a. crystalline solid | b. liquid crystal |
| c. fluid | d. both a & b |
- (x) If plane polarized light rotates in clockwise direction
- | | |
|-----------|----------------------------|
| a. Dextro | b. negative rotation angle |
| c. Levo | d. none |
- (xi) Optical activity is measured by
- | | |
|----------------------|----------------|
| a. Polarimeter | b. Colorimeter |
| c. Spectrophotometer | d. none |
- (xii) Factors affecting Dielectric constant is
- | | |
|---------------------------|-------------------|
| a. Polarity of a compound | b. Field strength |
| c. Temperature | d. All |
- (xiii) Tween 80 is a surfactant of type
- | | |
|----------------|--------------|
| a. Amphi-ionic | b. Anionic |
| c. Cationic | d. Non-ionic |
- (xiv) HLB range for solubilizing agent is
- | | |
|----------|----------|
| a. 15-18 | b. 2-3 |
| c. 8-16 | d. 13-15 |
- (xv) EDTA is
- | | |
|----------------|-----------------|
| a. Bidentate | b. Tridentate |
| c. Hexadentate | d. Pentadentate |
- (xvi) Deferoxamine is used in over dose of
- | | |
|-----------|---------------|
| a. Iron | b. Aluminium |
| c. Copper | d. Both a & b |
- (xvii) Systemically available drug which can show pharmacological action is
- | | |
|-----------------------|-----------------|
| a. Bound drug | b. Unbound drug |
| c. Complete drug dose | d. All |

