

- xiii) Surface tension of skim milk is centipoise
a) 51-52 b) 52-52.5 c) 42-45 d) 39-40
- xiv) Viscosity of whole milk isdynes/cm
a) 1.2 b) 1.5 c) 2 d) 2.2
- xv) Colostrums and mastitis milk differs radically from normal milk in the proportion of
a) Protein and salts b) Protein and Vitamin
c) Fat and Protein d) Vitamin and Fat
- xvi)indicator used for determination of acidity of milk
a) phenolphthalein b) Methyl orange c) Methylene blue d) mixed indicator
- xvii) The pH of normal healthy cow milk will range between
a) 6.0-6.2 b) 6.2-6.4 c) 6.4-6.6 d) 6.6-6.8
- xviii) Which is the example of water in oil emulsions
a) Milk b) Ice cream c) Salad dressing d) Mayonnaise
- xix) Partially dehydrated gels when dipped in water absorb water resulting in increase in the volume of gel is called.....
a) Swelling b) Syneresis c) Thixotrophy d) Hydration
- xx)is used for determination or specific gravity of milk
a) Hydrometer b) Pycnometer c) Westphal balance d) All of the above

Q.2

A) Define the following (Any five out of seven questions) (05)

- (1) Emulsion
- (2) Gels
- (3) Specific gravity
- (4) Surface tension
- (5) Viscosity
- (6) Colligative property
- (7) Osmosis

B) Answer the following (Any five out of seven questions) (05)

- (1) Enlist the factor affecting of emulsions
- (2) Enlist different type of viscometers
- (3) What is Raoult's Law
- (4) States the importance of acidity of milk
- (5) What is buffering index
- (6) Enlist factors influence the properties of emulsions
- (7) What is Reckangel phenomenon

Q.3 Write Short notes (Any five out of six questions) (10)

- (1) State the principle of surface tension measurement
- (2) States the Stoke's law
- (3) True and colloidal solutions
- (4) Lyophilic and lyophobic colloids
- (5) Newtonian fluids and non-newtonian fluids
- (6) Types of buffers

Q.4 Long Questions (Any three out of four questions) (15)

- (1) Explain the different method used for determination of density and specific gravity of milk
- (2) Define emulsion and explain its type and properties
- (3) Define viscosity and explain different factor affecting of viscosity of milk
- (4) Discuss in details about major constituents of milk