

ARJUNA-NEET (Botany)

PRACTICE TEST -01

20/06/2021

- 91.** Which of the following is incorrect with respect to inanimate things?
 (A) They have prokaryotic cells
 (B) They have the basic unit of life
 (C) They are non-living
 (D) Both A and B
- 92.** Which of the following statements are correct?
 Statement P: All organisms are made of cells
 Statement Q: Many organisms are single celled
 (A) Both P and Q (B) Only P
 (C) Only Q (D) None
- 93.** Who described a living cell for the first time?
 (A) Leeuwenhoek (B) Robert Hooke
 (C) Schleiden (D) Schwann
- 94.** Which of the following is true about Schleiden ?
 (A) German botanist
 (B) Studied plants and animal cells
 (C) Observed that presence of cell wall is unique feature of plants
 (D) All of the above
- 95.** Statement P: plant tissue is always made of single type of cells
 Statement Q: Schleiden studied large number of plants in 1839
 Which statement is / are correct?
 (A) Only P (B) Only Q
 (C) Both P and Q (D) None
- 96.** Who said that new cells develop from pre-existing cell by cell division?
 (A) Virchow (B) Schwann
 (C) Schleiden (D) Both B and C
- 97.** Who modified cell theory?
 (A) Virchow (B) Schwann
 (C) Leeuwenhoek (D) Robert brown
- 98.** In a typical plant cell, cell wall and plasmamembrane are
 (A) Identical
 (B) Distinct
 (C) Can be identical or distinct
 (D) Equally thick
- 99.** Membrane bound organelles are present in
 (A) Prokaryotic cells
 (B) Eukaryotic cells
 (C) Mature RBC
 (D) Both B and C
- 100.** In eukaryotic cell the genetic material is
 (A) Protein (B) Lipid
 (C) DNA (D) RNA
- 101.** Which of the following is main arena of cellular activities?
 (A) Cytoplasm (B) Plasma membrane
 (C) Nucleus (D) Cell wall
- 102.** In which organelle ribosome is not present?
 (A) Golgi complex (B) Mitochondria
 (C) Chloroplast (D) More than one
- 103.** Which of the following organelle is / are non-membrane bound
 (A) Centrosome (B) Ribosome
 (C) Nucleus (D) More than one
- 104.** Which of the following statement is incorrect
 (A) Cells differ slightly in shape size and activities
 (B) The largest isolated cell is egg of ostrich
 (C) The shape of cell can be irregular
 (D) All of the above

- 105.** Statement P: The shape of cell always vary with function performed by the cell
Statement Q: nerve cells are some of the longest cells
Which of the following statement is correct?
(A) Both P&Q (B) Only P
(C) Only Q (D) None
- 106.** Which of the following has smallest cells?
(A) Mycoplasma (B) RBC
(C) WBC (D) neuron
- 107.** Find out the odd one with respect to eukaryotic organisms
(A) Protists (B) Bacteria
(C) Plants (D) Animals
- 108.** Large central sap vacuole is absent in
(A) Animal cells
(B) Immature plant cells
(C) Mature plant cells
(D) Both A and B
- 109.** Centriole is absent in
(A) All plant cells
(B) Almost all plant cells
(C) Animal cells
(D) None
- 110.** Which of the following organelle is self duplicating but without having any genetic material
(A) Mitochondria (B) Lysosome
(C) Centrosome (D) Chloroplast
- 111.** Which is the common precursor of all plastids?
(A) Leucoplast (B) Proplastid
(C) Amyloplast (D) Aleuroplast
- 112.** Which of the following enzyme is marker enzyme of mitochondria
(A) Succinate dehydrogenase
(B) Glycolate oxidase
(C) Hexokinase
(D) All of the above
- 113.** Which components of plasma membrane are responsible for transport of various types of molecules
(A) Lipid
(B) Protein
(C) Carbohydrate
(D) Both lipid and protein
- 114.** Facilitated diffusion is
(A) Passive process
(B) Active process
(C) Can be either active and passive
(D) None
- 115.** In human RBC plasma membrane what is the approximate percentage of proteins
(A) 50% (B) 42%
(C) 52% (D) 40%
- 116.** Which of the following protein is loosely associated with lipid bilayer in plasmamembrane
(A) External protein
(B) Peripheral protein
(C) Extrinsic protein
(D) All of the above
- 117.** Which of the following model for plasmamembrane is most valid
(A) Fluid music model
(B) Unit membrane concept
(C) Danieli Davson model
(D) Overton model
- 118.** Which of the following shows both lateral and flipflop moment in plasma membrane
(A) Lipid (B) Protein
(C) Carbohydrate (D) All of the above
- 119.** Which is the following component of plasma membrane is present only on noncytosolic surface
(A) Lipid (B) Protein
(C) Carbohydrate (D) none



- 120.** The most abundant lipid in plasma membrane is
 (A) Sterol
 (B) Phosphoglyceride
 (C) Sphingophospholipid
 (D) Glycolipid
- 121.** Find out the odd one with respect to cell wall components in algae
 (A) Chitin (B) Cellulose
 (C) Galactan (D) Mannan
- 122.** Which of the following forms symplast within apoplast
 (A) Cell wall
 (B) Plasmodesmata
 (C) Endoplasmic reticulum
 (D) Plasmamembrane
- 123.** Unthickened areas of secondary wall is known as
 (A) Pits (B) Plasmodesmata
 (C) Desmotubule (D) Cementing layer
- 124.** Which of the following organelle is considered as organelle within organelle
 (A) Centrosome (B) Ribosome
 (C) Protein factory (D) More than one
- 125.** Which of the following subunit of ribosome is attached to RER membrane?
 (A) 60 S (B) 40 S
 (C) 50 S (D) 30 S
- 126.** Which of the following not a component of endomembrane system
 (A) Golgi complex
 (B) Endoplasmic reticulum
 (C) Lysosome
 (D) Peroxisome
- 127.** Mitochondrion is semi-autonomous due to presence of
 (A) Ribosome
 (B) Enzyme
 (C) Membrane
 (D) Ribosome, DNA, RNA
- 128.** Which of the following is involved in detoxification of xenobiotics
 (A) SER (B) RER
 (C) Golgi complex (D) Peroxisome
- 129.** Which of the following organelle is the major site of packaging of material?
 (A) Golgi complex (B) SER
 (C) Peroxisome (D) Mitochondrion
- 130.** Which cytoskeleton is structural component of Spindle fibre
 (A) Microtubule
 (B) Microfilaments
 (C) Intermediate filament
 (D) All of the above
- 131.** Which of the following organelle is associated with lipid synthesis and storage
 (A) Spherosome (B) Glyoxysome
 (C) Peroxisome (D) Mitochondrion
- 132.** Animal cells can't convert lipid into carbohydrate due to absence of
 (A) Glyoxysome (B) Peroxisome
 (C) Lysosome (D) Spherosome
- 133.** The DNA present in mitochondria is
 (A) Double stranded
 (B) Linear
 (C) Circular
 (D) More than one
- 134.** Tonoplast is
 (A) Semipermeable
 (B) Membrane of vacuole
 (C) Performs diffusion of ions across it
 (D) Half unit membrane
- 135.** Where is the most abundant protein in earth present?
 (A) Mitochondrial matrix
 (B) Stroma of chloroplast
 (C) Thylakoid membrane
 (D) Inner mitochondrial membrane



ANSWER KEY

- | | | |
|----------|----------|----------|
| 91. (D) | 106. (A) | 121. (A) |
| 92. (B) | 107. (B) | 122. (B) |
| 93. (A) | 108. (D) | 123. (A) |
| 94. (A) | 109. (B) | 124. (D) |
| 95. (D) | 110. (C) | 125. (A) |
| 96. (A) | 111. (B) | 126. (D) |
| 97. (A) | 112. (A) | 127. (D) |
| 98. (B) | 113. (D) | 128. (A) |
| 99. (B) | 114. (A) | 129. (A) |
| 100. (C) | 115. (C) | 130. (A) |
| 101. (A) | 116. (D) | 131. (A) |
| 102. (A) | 117. (A) | 132. (A) |
| 103. (D) | 118. (A) | 133. (D) |
| 104. (A) | 119. (C) | 134. (B) |
| 105. (C) | 120. (B) | 135. (B) |



HINT AND SOLUTION

91. (D)
NCERT 11, Ch. No.- 8, Pg No.- 125
92. (B)
NCERT 11, Ch. No.- 8, Pg No.- 125
93. (A)
NCERT 11, Ch. No.- 8, Pg No.- 125
94. (A)
NCERT 11, Ch. No.- 8, Pg No.- 125
95. (D)
NCERT 11, Ch. No.- 8, Pg No.- 126
96. (A)
NCERT 11, Ch. No.- 8, Pg No.- 126
97. (A)
NCERT 11, Ch. No.- 8, Pg No.- 126
98. (B)
NCERT 11, Ch. No.- 8, Pg No.- 126
99. (B)
NCERT 11, Ch. No.- 8, Pg No.- 126
100. (C)
NCERT 11, Ch. No.- 8, Pg No.- 126
101. (A)
NCERT 11, Ch. No.- 8, Pg No.- 126
102. (A)
NCERT 11, Ch. No.- 8, Pg No.- 126
103. (D)
NCERT 11, Ch. No.- 8, Pg No.- 126
104. (A)
NCERT 11, Ch. No.- 8, Pg No.- 126 & 127
105. (C)
NCERT 11, Ch. No.- 8, Pg No.- 127
106. (A)
NCERT 11, Ch. No.- 8, Pg No.- 126
107. (B)
NCERT 11, Ch. No.- 8, Pg No.- 127 & 129
108. (D)
NCERT 11, Ch. No.- 8, Pg No.- 129
109. (B)
NCERT 11, Ch. No.- 8, Pg No.- 1296
110. (C)
Centrosome is self replicating organelle without genetic material.
111. (B)
All plastids are derived from proplastids.
112. (A)

Mitochondria is site of aerobic respiration and Succinate dehydrogenase (complex II) participate in oxidative phosphorylation.

113. (D)
NCERT 11, Ch. No.- 8, Pg No.- 132
114. (A)
NCERT 11, Ch. No.- 8, Pg No.- 132
115. (C)
NCERT 11, Ch. No.- 8, Pg No.- 131
116. (D)
NCERT 11, Ch. No.- 8, Pg No.- 131
117. (A)
NCERT 11, Ch. No.- 8, Pg No.- 132
118. (A)
NCERT 11, Ch. No.- 8, Pg No.- 132
119. (C)
NCERT 11, Ch. No.- 8, Pg No.- 131

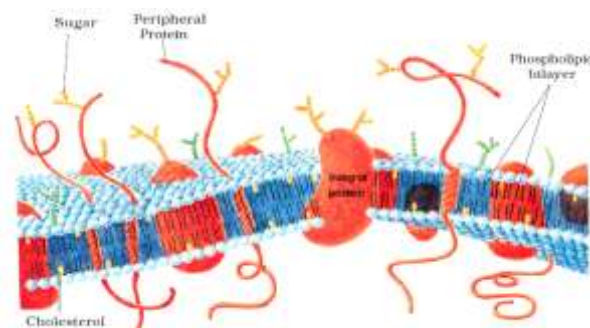


Figure 8.4 Fluid-mosaic model of plasma membrane

120. (B)
NCERT 11, Ch. No.- 8, Pg No.- 131
121. (A)
NCERT 11, Ch. No.- 8, Pg No.- 132
122. (B)
NCERT 11, Ch. No.- 8, Pg No.- 132
123. (A)
Centrosome is self replicating organelle without genetic material.
124. (D)
Ribosomes are organelle which is present inside other cell organelles like mitochondria, ER and chloroplast. Ribosome are site of protein synthesis.
125. (A)
NCERT 11, Ch. No.- 8, Pg No.- 136
126. (D)



- NCERT 11, Ch. No.- 8, Pg No.- 133
- 127. (D)**
NCERT 11, Ch. No.- 8, Pg No.- 135
- 128. (A)**
SER is responsible for xenobiotics detoxification.
- 129. (A)**
NCERT 11, Ch. No.- 8, Pg No.- 134
- 130. (A)**
NCERT 11, Ch. No.- 8, Pg No.- 137 & 138
- 131. (A)**
Sphaerosomes help in lipid metabolism and storage.
- 132. (A)**
Plant cells have specialised peroxisomes called glyoxysomes.
- 133. (D)**
NCERT 11, Ch. No.- 8, Pg No.- 135
- 134. (B)**
NCERT 11, Ch. No.- 8, Pg No.- 134
- 135. (B)**
RuBisCo is the most abundant protein which help in Calvin cycle of photosynthesis and is present in stroma of chloroplast.



***Note* - If you have any query/issue**

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