

# CELL: THE UNIT OF LIFE

21. Select the incorrect statement:

- (1) Peroxisomes are not considered as part of the endomembrane system.
- (2) The endoplasmic reticulum bearing ribosomes on their surface appear smooth called rough endoplasmic reticulum (RER).
- (3) RER are extensive and continuous with the outer membrane of the nucleus.
- (4) The smooth endoplasmic reticulum is the major site for synthesis of lipid.

22. Match the following columns:

Column A		Column B	
(a)	RER	(i)	Packaging
(b)	SER	(ii)	Amoeba
(c)	Golgi complex	(iii)	Secretion
(d)	Vacuole	(iv)	Steroidal hormones

- (1) a - ii, b- iii, c- i, d- iv
- (2) a - i, b- iv, c- iii, d- ii
- (3) a - iv, b- ii, c- i, d- iii
- (4) a - iii, b- iv, c- i, d- ii

23. How many of the below given statements are applicable for Golgi complex?

- (a) Densely stained reticular structures near the Lysosomes.
- (b) They are named by scientist Camilo Golgi.
- (c) Cis and trans face are not interconnected
- (d) Contain enzymes which are active at acidic pH.
- (e) RER is frequently observed in the cells actively involved in protein synthesis.

- (1) 3
- (2) 4
- (3) 1
- (4) 2

24. Select the odd one out

- (1) Trans face
- (2) Maturing face
- (3) Convex face
- (4) Concave face

25. Given below are two statements:

Statement A: Golgi apparatus remains in close association with the endoplasmic reticulum.

Statement B: Materials to be packaged in the form of vesicles from the ER fuse with the concave face of the golgi apparatus.

- (1) Both (A) and (B) are correct and (B) is not correct explanation of (A).

(2) (A) is correct but (B) is incorrect

(3) (A) is not correct but (B) is correct

(4) Both (A) and (B) are correct and (B) is correct explanation of (A)

26. What percent of volume of cell is occupied by vacuole in plant cells?

(1) Up to 90%

(2) > 90%

(3) <10%

(4) >99%

27. Given below are two statements:

Assertion (A): Materials to be packaged in the form of vesicles from the ER fuse with the cis face of the golgi apparatus

Reason(R): Golgi complex consist of many flat, disc-shaped sacs or cisternae.

(1) Both (A) and (B) are correct and (B) is not correct explanation of (A).

(2) (A) is correct but (B) is incorrect

(3) (A) is not correct but (B) is correct

(4) Both (A) and (B) are correct and (B) is correct explanation of (A)

28. Select the incorrect match w.r.t characteristics of Vacuoles

(1) In animal cells lipid-like steroidal hormones are synthesised

(2) Membrane-bound space found in the cytoplasm

(3) Contains water, sap, excretory product and other materials not useful for the cell

(4) Bound by a single membrane called tonoplast.

29. Choose the correct option from the below given statements:

(1) Vacuoles are membrane bound vesicular structures formed by the process of packaging in the Golgi apparatus.

(2) Tonoplast facilitates the transport of a number of ions and other materials along concentration gradients into the vacuole

(3) Hydrolytic enzymes are capable of digesting carbohydrates, proteins, lipids only.

(4) In protists, food vacuoles are formed by engulfing the unwanted particles.

30. Given below are 2 statements

**Statement 1:** ER is included in endo membrane system as their functions are coordinated

**Statement 2:** RER is frequently observed in the cells actively involved in secretion

- (1) Both statement I and II are correct
- (2) Statement I is correct but statement II is incorrect
- (3) Both statement I and II are incorrect
- (4) Statement I is incorrect but statement II is correct



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