



INDIAN SCHOOL AL WADI AL KABIR

Class: XI	Department: SCIENCE - BIOLOGY	Date: 21.06.2020
Marks: 30	UNIT TEST 1 – QP + MS	Duration: 1 hour

1. Pericarp is -----
 - (a) Wall of seed
 - (b) Wall of fruit
 - (c) Remnant of nucellus
 - (d) Edible part of seed
2. One of the following is not applicable for scutellum
 - (a) It is the large cotyledon present in monocot seed
 - (b) It is the large cotyledon present in dicot seed
 - (c) It is shield shaped
 - (d) It is present in Maize seed
3. Find the correct statements related to monocot seed
 - (i) Consists of proteinaceous layer called aleurone layer.
 - (ii) The plumule is enclosed by a sheath known as coleorhiza
 - (iii) The seed coat is fused with fruit wall
 - (iv) Most of the monocot seeds are non-endospermic
 - (a) Both (i) & (ii)
 - (b) Both (i) & (iii)
 - (c) Both (ii) & (iv)
 - (d) Both (ii) & (iii)
4. The mode of arrangement of sepals and petals in floral bud is known as
 - (a) Phyllotaxy
 - (b) Inflorescence
 - (c) Aestivation
 - (d) Placentation

5. Match the following and find the correct option

	Column I		Column II
1	Carrot	A	Pneumatophores
2	Rhizophora	B	Stilt roots
3	Sugar cane	C	Prop roots
4	Banyan tree	D	Tuber

- (a) 1-D, 2-C, 3-B, 4-A
(b) 1-A, 2-B, 3-C, 4-D
(c) 1-D, 2-A, 3-B, 4-C
(d) 1-B, 2-C, 3-A, 4-D
6. Which among the following is not applicable for ribosomes
- (i) It is the only single membrane bound organelle present in both prokaryotes and eukaryotes
(ii) It is found in chloroplast and mitochondria
(iii) Prokaryotic ribosome is 70S and eukaryotic ribosome is 80S
(iv) It is made up of DNA and proteins
- (a) (i) and (ii)
(b) (ii) and (iii)
(c) (i) and (iv)
(d) (iii) and (iv)
7. Plasmid is -----
- (a) Extra chromosomal DNA that controls genomic DNA
(b) Extra chromosomal DNA that gives antibiotic resistance
(c) Genomic DNA that monitors bacterial transformation
(d) All of these
8. Which of the following statements are true about mesosomes
- (i) Extensions of plasma membrane which are present in mitochondria
(ii) Extensions of plasma membrane which are present in bacteria
(iii) They increase the surface area and help in attachment to rocks
(iv) They help in respiration and DNA replication
- (a) (ii) and (iv)
(b) (i) and (iv)
(c) (ii) and (iii)
(d) (ii), (iii) and (iv)
9. Fluid – Mosaic model explains the
- (a) Structure of nucleus
(b) Mechanism of membrane transport
(c) The structure of plasma membrane
(d) Arrangement of petals and sepals
10. Find the odd one out

- (a) ER
 - (b) Mitochondria
 - (c) Vacuoles
 - (d) Lysosomes
11. Root hairs are formed from
- (a) Region of meristematic activity
 - (b) Region of elongation
 - (c) Region of root cap
 - (d) Region of maturation
12. Rhizome and runner are examples for
- (a) Underground stem and subaerial stem respectively
 - (b) Sub-aerial stem and underground stem respectively
 - (c) Aerial stem modification
 - (d) Underground stem modification
13. Rachis is -----
- (a) Stalk of compound leaf
 - (b) Stalk of simple leaf
 - (c) Swollen leaf base
 - (d) Lateral outgrowth of leaf
14. A pair of leaves arises at each node in -----
- (a) Whorled phyllotaxy
 - (b) Opposite phyllotaxy
 - (c) Alternate phyllotaxy
 - (d) Di-phyllotaxy
15. Identify the type of flower based on the position of ovary



- (a) Epigynous
 - (b) Perigynous
 - (c) Hypogynous
 - (d) Syncarpous
16. Name the colourless plastid that stores proteins
- (a) Leucoplast
 - (b) Amyloplast
 - (c) Elaioplast
 - (d) Aleuroplast
17. Find the wrong statement about the anatomy of flagella
- (a) The core is known as axoneme
 - (b) It has a 9 + 0 arrangement of microtubules
 - (c) The peripheral tubules are doublets

(d) The central tubules are covered by central sheath

18. Based on the position of -----the chromosomes are divided into four different types

- (a) Centromere
- (b) Kinetochore
- (c) Chromatids
- (d) Satellite

19. Centrioles and pericentriolar material together known as

- (a) Basal body
- (b) Cytoskeleton
- (c) Spindle fibres
- (d) Centrosome

20. In acrocentric chromosome

- (a) Centromere is situated at the tip
- (b) Centromere is situated close to its end
- (c) Centromere is situated at the middle
- (d) Centromere is situated close to middle

21. The following image shows the arrangement of petals in a flower. Identify the type of aestivation exhibited by the flower



- (a) Valvate
- (b) Twisted
- (c) Imbricate
- (d) Vexillary

22. Which of the following is not applicable for Vexillary aestivation

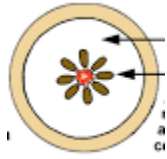
- (a) Consists of five petals
- (b) The large single petal that overlaps all other petals is known as standard petal
- (c) The wing petals are lateral and are united
- (d) The keel petals are the smallest petals

23. In epipetalous condition -----

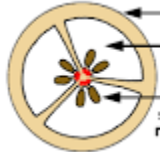
- (a) Petals are united among themselves
- (b) Stamens are united with petals
- (c) Stamens are united with sepals
- (d) Petals are united with carpels

24. Identify axile placentation from the following

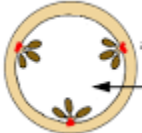
(a)



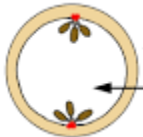
(b)



(c)



(d)



25. Read the following statements carefully. Identify the correct statement/statements about fruit.

- (i) Parthenocarpic fruits are seedless fruits formed from fertilised ovary
- (ii) Dry pericarp of fruit is differentiated into epicarp, mesocarp and endocarp
- (iii) In mango and coconut the fruit is known as drupe and are developed from monocarpellary superior ovaries.
- (iv) The fibrous mesocarp is the edible part in coconut

- (a) Both (i) and (ii)
- (b) Both (i) and (iii)
- (c) Only (iii)
- (d) Only (iv)

26. In which type of cell you can observe chromatin?

- (a) Dividing cell
- (b) Non-dividing cell
- (c) Both (a) and (b)
- (d) Cell during mitosis

27. The finger like infoldings present in mitochondria are known as

- (a) Cristae
- (b) Matrix
- (c) Grans

- (d) Lamellae
- 28. Middle lamellae is present between
 - (a) Primary wall and secondary wall
 - (b) Plasma membrane and secondary wall
 - (c) Two cells
 - (d) Plasma membrane and primary wall
- 29. One of the following is an example for active transport
 - (a) Transport of oxygen and carbon dioxide
 - (b) Sodium-potassium pump
 - (c) Osmosis of water
 - (d) Xylem transport
- 30. Phosphate and cyanophycean granules are present in
 - (a) Prokaryotes
 - (b) Eukaryotes
 - (c) Protists
 - (d) All of these

ANSWER KEY

Question number	Correct option	Question number	Correct option
1	b	16	d
2	b	17	b
3	b	18	a
4	c	19	d
5	c	20	a
6	c	21	c
7	b	22	c
8	a	23	b
9	c	24	b
10	b	25	c
11	d	26	b
12	a	27	a
13	a	28	c
14	b	29	b
15	b	30	a