

# BIOLOGY

1. Who first proposed the binomial nomenclature system?

(A) Robert Hooke

(B) Carolus Linnaeus

(C) Aristotle

(D) Robert Brown

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2. The number of capsomeres in the Tobacco mosaic virus capsid is

(A) 3210

(B) 1230

(C) 2130

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3. Teichoic acids are found in the cell walls of

(A) Gram-positive bacteria

(B) Gram-negative bacteria

(C) Rhodophyta

(D) Bryophyta

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4. Which one of the following is an example of aquatic floating Bryophytes?

(A) *Riccia atlantica*

(B) *Pteris vittata*

(C) *Riccia fluitans*

(D) *Marchantia polymorpha*

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(A) *Riccia atlantica*

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5. Heart is three-chambered in which of the following classes of animals?

(A) Amphibia

(B) Aves

(C) Chondrichthyes

(D) Osteichthyes

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6. When the stamens remain united with petals, then it is called

(A) Epipetalous

(B) Episepalous

(C) Gynandrous

(D) Synandrous

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7. Which one of the following is **not** a type of protostele?

- (A) Haplostele (B) Actinostele  
(C) Plectostele (D) Atactostele

7ú [ >• [° [t; P; [°1 3; k, ëA; à > [i; ëšøàii; à [Đ; [°1 šøA; à 1 i®; f >Ú?

- (A) Ò, ài šÃà [Đ; [° (B) "à, A; [i; i> à [Đ; [°  
(C) ëšÃi C; à [Đ; [° (D) ", ài; à A; i; i; à [Đ; [°

8. Sunken stomata is found in the leaves of

- (A) *Nerium* (B) *Lathyrus*  
(C) *Pisum* (D) *Gloriosa*

8ú [ >³ [ðt; šy¹ pøý; šà\*Úà ™àÚ ë™ šàt; àÚ, êl [i; Ò°

- (A) *Nerium* (B) *Lathyrus*  
(C) *Pisum* (D) *Gloriosa*

9. Which one of the following statements is **not** correct?

- (A) Maltase converts maltose into glucose  
(B) Lipolytic enzymes hydrolyse fats and lipids  
(C) Amylase is a proteolytic enzyme  
(D) Nuclease causes the hydrolysis of nucleic acid

9ú [ >• [° [t; l; ü [v; û P; [°1 3; k, ëA; à > [i; Î [k; A; i >Ú?

- (A) ³øii; \ ³øii; à \ A; NÃâi A; à \ š [¹ ot; A; i¹  
(B) °à Òüi šà° à Òü [i; A; l; ü; îŴ; A; ó; ài; " =æà [° [šl; i A; [æ [ÃÃÊ; A; i¹  
(C) "à, ³à Òüi° \ & A; [i; ëšøà [i; \*° à Òü [i; A; l; ü; îŴ; A;  
(D) [ > l; ü [ÃÃi Ú \; [ > l; ü [ÃÃÃ "à, Îl; i¹ [æ ÎÃÃÈo Qi; àÚ

10. The colourless plastids that store starch are called

(A) Amyloplast

(B) Elaioplast

(C) Proteinoplast

(D) Pheoplast

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(A) Lysosome

(B) Peroxisome

(C) Oxysome

(D) Quantasome

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(A) mutase

(B) aldolase

(C)  $\beta$ -ketothiolase

(D) hexokinase

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13. Kranz anatomy is the characteristic feature of

(A) CAM plants

(B) C<sub>4</sub> plants

(C) C<sub>3</sub> plants

(D) Both CAM and C<sub>3</sub> plants

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(A) Nitrogen

(B) Potassium

(C) Calcium

(D) Boron

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(A) Mucous cells

(B) Parietal cells

(C) Stem cells

(D) Peptic cells

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16. The enzyme responsible for conversion of trypsinogen to trypsin is

(A) enteropeptidase

(B) amylase

(C) lipase

(D) dehydrogenase

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17. The process of development of fruit without fertilization is called

(A) apomixis

(B) parthenocarpy

(C) polyembryony

(D) pleiotropy

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18. Ringelmann scale is used to measure the density of which one of the following?

(A) Fog

(B) Polluted water

(C) Rain

(D) Smoke

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19. Nanda Devi Biosphere Reserve is located in the State of

(A) Kerala

(B) Uttarakhand

(C) Karnataka

(D) Tamil Nadu

19. >@fàifᄁᄁ ᄁàìÚà[Ñᄁ;Úà¹ [¹\à®ᄁ; ᄁᄁᄁ¹àì\, "ᄁ[Ñ,t; ᄁᄁ[ᄁ; Ò°

(A) ᄁA;¹à°à

(B) l;üv;¹àj"ᄁ

(C) A;ᄁᄁà;A;

(D) t;à[³°>àØl;æ

20. Royal Jelly is secreted by which of the following honeybees?

(A) Queen honeybees

(B) Worker honeybees

(C) Drone honeybees

(D) Both queen and drone honeybees

20. ¹Ú° ᄁᄁ[° [°>´[°[ᄁ; ᄁA;à>ô ᄁ³³à[á ᄁà¹à Û;[¹t; ÒÚ?

(A) ¹à>ᄁ ᄁ³³à[á

(B) ÅØ[³A; ᄁ³³à[á

(C) šš¹ᄁᄁᄁ ᄁ³³à[á

(D) l;ü@;Ú¹à>ᄁ \* šš¹ᄁᄁᄁ ᄁ³³à[á

21. Which one of the following is an example of monoestrous animal?

(A) Rat

(B) Horse

(C) Cat

(D) Dog

21. [°>´[°[ᄁ;P;[¹³ᄁ; ᄁA;à>[ᄁ; &A; jᄁ~ ᄁ;W;yû;ᄁ šøàᄁ¹ l;üfàÒ¹o?

(A) Òòüfᄁ¹

(B) ᄁQàØl;à

(C) [ᄁØl;à°

(D) A;ᄁA;ᄁ¹

22. Semiconservative replication of DNA was discovered by
- (A) Pasteur and Jenner (B) Meselson and Stahl
- (C) Krebs and Khorana (D) Harvey and Berg

22. DNA "oă" "ç" Ū; oĂş şø[t;[°[šA; ūo" "à[ıHbptç;à Ò°>

- (A) šàŇñ¹ &œ} ë\>à¹ (B) ë³î°ŭ &œ} Đ;à°
- (C) ëyû;ı¹ &œ} ëjà¹à>à (D) Òàì®ç; &œ} ıàKç

23. The restriction endonuclease BamHI is obtained from
- (A) *Arthrobacter luteus* (B) *Bacillus megaterium*
- (C) *Bacillus amyloliquefaciens* (D) *Bacillus cereus*

23. ë¹[Đ;öA;Ă> &ı"jà>|ü[AA;ıŪ\BamHI šà\*Ūà™àŪ™à ë=ıA, él[i; Ò°;

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24. In C<sub>4</sub> plants, the first stable compound of photosynthetic CO<sub>2</sub> fixation is
- (A) 3-Phosphoglyceric acid (B) Phosphoenolpyruvic acid
- (C) Oxaloacetic acid (D) Pyruvic acid

24. C<sub>4</sub> |ü[Š±ıf¹ îà°àA;îĀĀÈ CO<sub>2</sub> î}ııê;ı>|ü;šĂşø=³ Ň,àŪă ë™ıK[i; Ò°

- (A) 3- ó;îío;à[NĀĀà[¹A; ",à[î; (B) ó;îío;à&° šàŪü¹ç;[®ıA; ",à[î;
- (C) "Gàıà",ăî[i;A; ",à[î; (D) šàŪü¹ç;[®ıA; ",à[î;



25. Which one of the following is *not* a pentose sugar?

- |              |               |
|--------------|---------------|
| (A) Ribose   | (B) Arabinose |
| (C) Xylulose | (D) Galactose |

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26. Which one of the following disorders is caused by the deficiency of iodine in food?

- |             |              |
|-------------|--------------|
| (A) Anaemia | (B) Goitre   |
| (C) Ketosis | (D) Jaundice |

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27. Which one of the following is a natural anticoagulant substance?

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| (A) Sodium citrate | (B) Albumin    |
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28. The number of immunoglobulin classes found in human being is

(A) 10

(B) 5

(C) 12

(D) 6

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(C) female sandfly

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(A) killing sperms

(B) killing ova

(C) preventing ovulation

(D) formation of barrier between sperm and ova

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