

## Top 20 General Science MCQs for Maharashtra, SSC and Railway 26 April 2024

1. How many hydrogen bonds are there between thymine and adenine?  
(a) 4  
(b) 3  
(c) 2  
(d) 7  
Answer: c
2. What are the eyes on potato tubers?  
(a) Scars  
(b) Sutures  
(c) Rootlets  
(d) Nodes with buds  
Answer: d
3. In meiosis, what is the stage where pairing of homologous chromosomes begins?  
(a) Diplotene  
(b) Pachytene  
(c) Leptotene  
(d) Zygotene  
Answer: d
4. Which of the following is fungus excluding mycelium?  
(a) Saccharomyces  
(b) Mucor  
(c) Puccinia  
(d) Rhizopus  
Answer: a
5. Where is a gene located on a chromosome?  
(a) Site  
(b) Locus  
(c) Allele  
(d) Trait  
Answer: b
6. Which organelles are involved in photorespiration?  
(a) Chloroplast, peroxisome, and glyoxysomes  
(b) Glyoxysomes, chloroplast, and mitochondria  
(c) Chloroplast, mitochondria, and peroxisome  
(d) Mitochondria, peroxisome, and glyoxysomes  
Answer: c
7. What is the ratio of F<sub>2</sub> generation in a dihybrid cross?  
(a) 1:2:1  
(b) 1:1  
(c) 9:3:3:1  
(d) 3:1  
Answer: c
8. Where is Floridean starch found?  
(a) Phaeophyceae

- (b) Rhodophyceae
- (c) Chlorophyceae
- (d) Myxophyceae

Answer: b

9. What is the phenomenon called when a single gene has multiple effects?

- (a) Pleiotropy
- (b) Genostasis
- (c) Codominance
- (d) Epistasis

Answer: a

10. What is the hormone that reduces transpiration rate by inducing stomatal closure?

- (a) Cytokinin
- (b) Auxin
- (c) ABA
- (d) Ethylene

Answer: c

11. When was Lamarck's theory of evolution published?

- (a) 1806
- (b) 1802
- (c) 1812
- (d) 1809

Answer: d

12. What is the female sex organ in bryophytes known as?

- (a) Antheridium
- (b) Archegonium
- (c) Ascogonium
- (d) Carpogonium

Answer: b

13. What is the equivalent ATP yield from NADH produced in the Krebs cycle?

- (a) 7 ATP
- (b) 5 ATP
- (c) 3 ATP
- (d) 9 ATP

Answer: c

14. What constitutes a nucleoside?

- (a) Pyrimidine + purine + phosphate
- (b) Purine + sugar + phosphate
- (c) Purine/pyrimidine + phosphate
- (d) Purine/pyrimidine + sugar

Answer: d

15. What serves as the final electron acceptor in mitochondrial electron transport chains?

- (a) NAD<sup>+</sup>
- (b) FAD
- (c) H<sub>2</sub>O
- (d) None of these

Answer: c

16. Which plant includes feather stigma?

- (a) Wheat
- (b) Poppy
- (c) Pea

(d) Hibiscus

Answer: a

17. How does water move from cell to cell through plasmodesmata?

(a) Facilitated

(b) Apoplastic

(c) Transmembrane

(d) Symplastic

Answer: b

18. What is the process of water exudation through hydathodes called?

(a) Evaporation

(b) Bleeding

(c) Guttation

(d) Transpiration

Answer: c

19. What is the CO<sub>2</sub> fixation mechanism in maize plants known as?

(a) CAM pathway

(b) C<sub>3</sub> – C<sub>4</sub> intermediate

(c) C<sub>3</sub> pathway

(d) C<sub>4</sub> pathway

Answer: d

20. In which plant family is basal placentation found?

(a) Fabaceae

(b) Asteraceae

(c) Malvaceae

(d) Solanaceae

Answer: b