

(Each question carries 3 marks, 6 questions, 18 marks total)

19. Derive the formula for work done when a force is applied at an angle θ to the displacement.
 20. Explain the process of fractional distillation with a labeled diagram.
 21. Describe the role of stomata in plants.
 22. Write the differences between a physical change and a chemical change.
 23. Explain the law of conservation of momentum with an example.
 24. What are the differences between aerobic and anaerobic respiration?
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SECTION D: Long Answer Questions

(Each question carries 5 marks, 6 questions, 30 marks total)

25. Explain the structure of an atom based on Bohr's model.
 26. Describe the process of digestion in humans with the help of a labeled diagram.
 27. State and explain the three laws of motion with examples.
 28. What are the various steps involved in the water cycle? Explain each step in detail.
 29. Describe the process of photosynthesis, mentioning the raw materials, products, and conditions required.
 30. Discuss the differences between plant and animal cells with the help of a diagram.
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Page 3 of 3