

11. The measurement of serum activity of lipase for diagnosis of pancreatic disease relies on the detection of
- A. an artificial glyceride B. a colored chromophore ☒ C. an acid-base indicator D. the enzyme

Describe three different types of metabolic pathways and explain what a coupled reaction is

Match each pathway below with the proper description on the right:

- | | |
|------------------------|--|
| 12. Linear pathway C | A. serial breakdown or assembly in which a repetitive cycle removes or adds a fragment |
| 13. Spiral pathway D | B. serial conversion that relies on the coalescence of two molecules, one of which regenerates |
| 14. Circular pathway A | C. serial conversion of substrates in which each product is the substrate of the next reaction |
15. Two biochemical reactions are said to be coupled if
- A. they are both spontaneous
B. they are both nonspontaneous
☒ C. one is spontaneous and the other is nonspontaneous and the sum of their free energies is positive
D. one is spontaneous and the other is nonspontaneous and the sum of their free energies is negative

Define the terms metabolism, catabolism, and anabolism, and describe the role of ATP and coenzymes in metabolism

16. The type of bond in ATP that releases the **MOST** amount of energy when hydrolyzed is its phosphoester bond: **TRUE** or **FALSE**

Name the products formed during the digestion of polysaccharides, triglycerides, and proteins and state where the digestion of each takes place

17. Regarding the digestion of foodstuffs:

- A. begins in the mouth for carbohydrates and lipids, but NOT proteins.
B. ultimately yields oligosaccharides, diglycerides, and free amino acids, all of which are then absorbed into the lymphatics
C. can produce incompletely hydrolyzed proteins and oligopeptides
☒ D. involves emulsification of lipids by the action of cholesterol before being hydrolyzed

18. Upon absorption into the cells of the small intestine, fatty acids and monoglycerides or glycerol are re-assembled into triglycerides before incorporation into lipoproteins: **TRUE** or **FALSE**

Identify the initial reactant and final products of glycolysis and describe how this pathway is controlled

19. The product of glycolysis whose sole function in metabolism is the **DIRECT** release of free energy is

- A. acetyl-CoA B. pyruvate C. NADH D. ATP

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Edmund R. Burke, Ph.D.



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Optimal Muscle Performance and Recovery Edmund R. Burke, Ph.D., 2003-04-14 Now in a revised expanded second edition Dr Edmund Burke's landmark book will take any athlete elite or recreational to new peaks in physical performance Based on the most recent sports science research Dr Burke's R4 System emphasizes the importance of restoring fluids to your body to recover from dehydration replenishing glycogen a primary fuel source reducing muscle and immune system damage resulting from exercise stress rebuilding muscle protein to maintain muscle structure and function This remarkable nutritional regimen goes beyond sports drinks and energy bars and shows how to consume the right nutrients in the right proportions to ensure muscle health and enhance performance In addition readers will learn the latest on the importance of sleep and nutrition in recovery the best supplements and drinks to aid in replenishment and a new spin on carbohydrate loading The book includes forewords by Frank Shorter an Olympic marathon champion and Don Kirkendall Ph D a member of U S Soccer Sports Medicine Physical Fitness Research Committee *Biodiversity and Chemotaxonomy* Kishan Gopal Ramawat, 2019-11-10 Plant classifications are based on morphological characters and it is difficult particularly in small plants and grasses to identify these below generic level on the basis of these characters using a dissecting microscope Plant species have intra and inter specific variation in secondary metabolites which can be utilized as marker compounds for identification and classification of plants Secondary metabolites are produced as a result of primary metabolism and the production of these compounds not only involves several genes but also it is an energy dependent process Hence these products cannot be considered as insignificant for the plant and the environment Modern tools of molecular biology and secondary metabolites present in them can definitively decide about classification of plants Absence of correct identification of plant is associated to many problems of resource utilization Due to wide availability of these tools interest has revived in systematics and correct classification of plants based on these parameters for their sustainable utilization and resource management The purpose of this book is to assess the potential of phytochemical and molecular tools in the systematic and classification of plants The topics covered include species concept barcoding and phylogenetic analysis chemotaxonomy use of polyketides carotenes cuticular wax volatile oils biodiversity of corals metazoans *Ruta* and *Echinocereus* It provides comprehensive and broad subject based reviews useful for students teachers researchers and all others interested in the field The field has been kept wide and general to accommodate the wide ranging topics This book will be useful to agriculturists chemists botanists industrialists and those involved in planning of crop plants **Advanced Biology For You** Gareth Williams, 2015-04-02 From the same author as the popular first edition the second edition of this trusted accessible textbook is now accessible online anytime anywhere on Kerboodle It breaks down content into manageable chunks to help students with the transition from GCSE to A Level study and has been fully revised and updated for the new A Level specifications for first teaching September 2015 This online textbook provides plenty of examples and practice questions for consolidation of learning with

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