

**CIBI 3031-091**  
**Answer Section**

**Midterm Examination I**

**21 September 2005**

**MULTIPLE CHOICE**

1. ANS: A                    DIF: Moderate  
TOP: WHAT HAPPENS WHEN ATOM BONDS WITH ATOM?
2. ANS: E                    DIF: Moderate  
TOP: HOW DO CELLS BUILD ORGANIC COMPOUNDS?
3. ANS: A                    DIF: Moderate        TOP: AN EVOLUTIONARY VIEW OF DIVERSITY
4. ANS: E                    DIF: Moderate        TOP: TYPES OF CROSSING MECHANISMS
5. ANS: D                    DIF: Easy  
TOP: A STRING OF AMINO ACIDS: PROTEIN PRIMARY STRUCTURE
6. ANS: E                    DIF: Easy              TOP: GREASY, OILY-MUST BE LIPIDS
7. ANS: C                    DIF: Moderate        TOP: OVERVIEW OF FUNCTIONAL GROUPS
8. ANS: C                    DIF: Moderate  
TOP: A STRING OF AMINO ACIDS: PROTEIN PRIMARY STRUCTURE
9. ANS: A                    DIF: Moderate        TOP: REGARDING THE ATOMS
10. ANS: B                    DIF: Moderate  
TOP: IMPORTANT BONDS IN BIOLOGICAL MOLECULES
11. ANS:                    DIF: Difficult        TOP: PROPERTIES OF WATER
12. ANS: C                    DIF: Easy              TOP: DNA, ENERGY, AND LIFE
13. ANS:                    DIF: Difficult        TOP: AN EVOLUTIONARY VIEW OF DIVERSITY
14. ANS: B                    DIF: Moderate        TOP: ENERGY AND LIFE'S ORGANIZATION
15. ANS:                    DIF: Moderate        TOP: DNA, ENERGY, AND LIFE
16. ANS:                    DIF: Easy              TOP: REGARDING THE ATOMS
17. ANS:                    DIF: Moderate        TOP: GREASY, OILY-MUST BE LIPIDS
18. ANS:                    DIF: Moderate        TOP: HOW DO THE TRANSPORTERS WORK?
19. ANS: B                    DIF: Easy              TOP: GREASY, OILY-MUST BE LIPIDS
20. ANS:                    DIF: Easy  
TOP: DEFINING FEATURES OF EUKARYOTIC CELLS
21. ANS: B                    DIF: Moderate        TOP: REGARDING THE ATOMS
22. ANS:                    DIF: Easy              TOP: THE ENDOMEMBRANE SYSTEM
23. ANS:                    DIF: Moderate        TOP: PROPERTIES OF WATER
24. ANS: C                    DIF: Difficult  
TOP: CARBOHYDRATES-THE MOST ABUNDANT MOLECULES OF LIFE
25. ANS: B                    DIF: Moderate        TOP: ACIDS, BASES, AND BUFFERS
26. ANS: B                    DIF: Moderate        TOP: AN EVOLUTIONARY VIEW OF DIVERSITY
27. ANS: B                    DIF: Moderate        TOP: MEMBRANE STRUCTURE AND FUNCTION
28. ANS: C                    DIF: Moderate        TOP: THE NATURE OF BIOLOGICAL INQUIRY
29. ANS: B                    DIF: Moderate  
TOP: HOW DO CELLS BUILD ORGANIC COMPOUNDS?
30. ANS:                    DIF: Moderate        TOP: THE NATURE OF BIOLOGICAL INQUIRY
31. ANS: C                    DIF: Moderate        TOP: MEMBRANE STRUCTURE AND FUNCTION
32. ANS:                    DIF: Difficult  
TOP: WHAT HAPPENS WHEN ATOM BONDS WITH ATOM?
33. ANS:                    DIF: Moderate        TOP: ACIDS, BASES, AND BUFFERS

34. ANS: DIF: Moderate TOP: DNA, ENERGY, AND LIFE  
35. ANS: DIF: Easy TOP: MEMBRANE STRUCTURE AND FUNCTION  
36. ANS: DIF: Easy TOP: AN EVOLUTIONARY VIEW OF DIVERSITY  
37. ANS: B DIF: Difficult TOP: CELL SURFACE SPECIALIZATIONS  
38. ANS: C DIF: Easy TOP: HOW DO CELLS MOVE?  
39. ANS: DIF: Easy  
TOP: THE MOLECULES OF LIFE-FROM STRUCTURE TO FUNCTION  
40. ANS: B DIF: Difficult TOP: MEMBRANE STRUCTURE AND FUNCTION

**MATCHING**

41. ANS: C DIF: Moderate  
42. ANS: DIF: Moderate  
43. ANS: DIF: Moderate  
44. ANS: B DIF: Moderate  
45. ANS: DIF: Moderate  
46. ANS: DIF: Moderate  
  
47. ANS: DIF: Easy  
48. ANS: DIF: Moderate  
49. ANS: DIF: Easy  
50. ANS: C DIF: Easy