

UNIT 3 EXAM
REVIEW SHEET

1. Who made the first biological observation of a cell?
2. Who came up with the word “cell” and what does it mean?
3. What is the Cell Theory?
4. How are all cells alike?
5. What types of cells have a nucleoid?
6. What cell organelle uses selective permeability?
7. What is selective permeability?
8. Describe the cytoplasm.
9. What are organelles and where are they located?
10. Compare and contrast prokaryotic and eukaryotic cells.
11. What is the difference between a unicellular and a multicellular organism? Give an example of each.
12. What is the main function of the following organelles: nucleus, mitochondria, endoplasmic reticulum, Golgi bodies, cell membrane, cytoplasm, lysosomes, vacuoles, chloroplasts, cell wall, ribosomes, and cilia.
13. What compounds make up the cell membrane?
14. Describe the structure of the cell membrane (main component, other components).
15. Describe the phospholipids.
16. Know the difference between cell, tissue, organ, and system
17. What organelles are only found in plant cells?
18. How do multicellular organisms communicate?
19. What is a receptor protein?
20. Where are receptor proteins located?
21. What is a cell surface marker and what does it do?
22. What is Brownian motion?
23. What is diffusion?
24. What is osmosis?
25. Describe dynamic equilibrium.
26. What is passive transport? Active transport? The difference between the two?
27. What types of substances easily diffuse through a cell membrane?
28. Why is osmosis important when it comes to cells?
29. What is plasmolysis?
30. What are isotonic, hypotonic, and hypertonic solutions?
31. What is turgor pressure?
32. What is facilitated diffusion?
33. What are channel proteins?
34. What are carrier proteins?
35. What is endocytosis? Exocytosis?