|  |  |
| --- | --- |
| ANIMAL | BACTERIA |
| Nucleus | No nucleus |
| Have membrane bound organelles (ER, Golgi, lysosomes, mitochondria, etc) | No membrane bound organelles |
| No cell wall | Have a cell wall |
| Centrioles | No centrioles |
| Eukaryote | Prokaryote |

HONORS CELL STRTUCTURE TRANSPORT REVIEW ANSWERS   
1. Mitochondria 37. hypertonic  
2. Powerplant/Burn glucose/make ATP 38. shrink  
3. Thylakoids 39. cytolysis (Solute sucks!)  
4. Glycoproteins 40. aquaporins  
5. Smooth ER 41. Osmosis   
6. make lipids, 42. Higher to lower  
 regulate Ca++ in muscles, 43. It has a cell wall   
 breakdown toxins in liver 44. hypertonic  
7. Plants-cellulose 45. Membrane proteins & vesicles   
 Bacteria- peptidoglycan 46. Mitochondria & chloroplasts  
 Fungi-chitin 47. hypotonic  
8. Selectively permeable OR semi-permeable 48. swell & burst (Solute suck!)  
9. Cristae 49. Mitochondria & chloroplasts:  
10. Chromosomes are only cell parts with double membrane  
11. Cilia, flagella, cytoskeleton, centrioles phospholipids in inner membranes like bacteria  
12. Make RNA for ribosomes divide using binary fission like bacteria  
13. Rough ER have a single, circular loop of DNA like bacteria  
14. Integral   
15. Phospholipids + proteins   
16. bacterial cell are the smallest   
17. Cytoplasm   
18. eukaryote  
19. Mitochondria & Chloroplasts  
20. 9 + 2 = Cilia or flagella  
21. chloroplasts, really BIG vacuole, cell wall made of cellulose  
22. made on ribosomes → transported through Rough ER → processed by Golgi body → out through Plasma membrane  
23. Golgi  
24.centrioles  
25. Guide chromosomes apart during cell division  
26. Plant or animal or Fungi  
27.

28. Chloroplast  
29. photosynthesis  
30, vacuole  
31. Storage  
32. Cilia- many, short; Flagella- few, long  
33. RIBOSOMES use amino acids to make proteins  
34. cytoskeleton  
35. MITOCHONDRIA – Cristae  
 CHLOROPLASTS – thylakoids  
 GOLGI BODIES – cisternae  
36. Increase  
37. hypertonic  
38. shrink (Solute sucks!)  
39. cytolysis  
40. aquaporins  
41. osmosis  
42. Higher to lower   
43. It has a cell wall  
44. hypertonic  
45. Membrane proteins & vesicles  
46. Mitochondria & chloroplasts  
47. hypotonic  
48. swell & burst (Solute sucks!)  
49. Mitochondria & chloroplasts:  
 are only cell parts with double membrane  
 have phospholipids in inner membranes like bacteria  
 divide using binary fission like bacteria  
 have a single, circular loop of DNA like bacteria