|  |  |
| --- | --- |
| 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