Quiz Cell Structures

33 points

Use the words from the word bank to label the cell below. Not all words will be used, but each word will only be used once, if it is used.

<table>
<thead>
<tr>
<th>cell (plasma) membrane</th>
<th>cell wall</th>
<th>cytoplasm</th>
<th>nucleus</th>
<th>mitochondria</th>
</tr>
</thead>
<tbody>
<tr>
<td>vacuole/vesicle</td>
<td>nucleolus</td>
<td>chloroplast</td>
<td>centrioles</td>
<td>smooth ER</td>
</tr>
<tr>
<td>Golgi apparatus</td>
<td>central vacuole</td>
<td>ribosome</td>
<td>rough ER</td>
<td>lysosome</td>
</tr>
<tr>
<td>Microtubule</td>
<td>microfilament</td>
<td>plastid</td>
<td>chromatin</td>
<td></td>
</tr>
</tbody>
</table>

15. Plant or animal cell?  animal

16. Give a SPECIFIC reason why you chose the answer to # 15!  
   no cell wall, chloroplasts has centrioles, lysosomes has irregular shape

Turn over →
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16. Plant or animal cell? **plant**

17. Give a SPECIFIC reason why you chose the answer to # 16! **Cell wall/chloroplast present** no centrioles or lysosomes
   boxy shape
<table>
<thead>
<tr>
<th>Number</th>
<th>Letter</th>
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<tbody>
<tr>
<td>1.</td>
<td>C</td>
</tr>
<tr>
<td>2.</td>
<td>A</td>
</tr>
<tr>
<td>3.</td>
<td>E</td>
</tr>
<tr>
<td>4.</td>
<td>D</td>
</tr>
<tr>
<td>5.</td>
<td>B</td>
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<tr>
<td>6.</td>
<td>B</td>
</tr>
<tr>
<td>7.</td>
<td>A</td>
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<tr>
<td>10.</td>
<td>D</td>
</tr>
<tr>
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<td>B</td>
</tr>
<tr>
<td>14.</td>
<td>E</td>
</tr>
<tr>
<td>15.</td>
<td>A</td>
</tr>
</tbody>
</table>

Answers:

13.5-15 - A
12-13 - B
10.5-11.5 - C
9-10 - D
0-8.5 - E
"A Cell Is Like a City"

Try to figure out which parts of the cell are like which parts of the city. First, write the functions of the cell parts listed below. Then look at the list of parts of a city. Think about how each part of the city works. Finally, next to each cell part write the letter that goes with the part of the city that has the most similar function.

Parts of a City:
A. power plant
B. fence around the city with gates
C. storage company
D. streets
E. warehouse
F. city hall with planning department
G. factories
H. wrecking company

B. Cell Membrane controls what enters and leaves cell
F. Nucleus control center
D. Endoplasmic reticulum transport
G. Ribosomes make proteins
E. Golgi bodies packages and transport
A. Mitochondria make energy ATP
H. Lysosomes digestion
C. Vacuoles storage area
Matching: Review Questions

Review Questions: Match the functions with the names of the structures that are listed below. An organelle may be used more than once.

A: Centrioles  K: Cilia and flagella
B: Lysosomes  L: Smooth ER
C: Cell membrane  M: Nucleolus
D: Mitochondria  N: Vacuoles
E: Cell wall  O: Golgi body
F: Nucleus  P: Plastids
G: Chloroplasts  Q: Microtubules
H: Ribosomes  R: Microfilament
I: Chromatin  S: Cytoplasm
J: Rough ER

1. Powerhouse of the cell; site of ATP production
2. Provide shape and rigidity to the cell
3. Also called the plasma membrane
4. Bags of enzymes used to digest particles/bacteria; "garbage men" of the cell; work with vacuoles
5. Control center of the cell; contains nucleolus and DNA
6. External surface is studded with ribosomes
7. Formed from a piece of cell membrane breaking loose; stores substances
8. Sites for photosynthesis; found only in plant cells; contains chlorophyll
9. Locomotive structures; made up of microtubules
10. Site of protein synthesis; found in cytoplasm and on rough ER
11. Only found in animal cells; form spindle fibers during cell division
12. Made mostly of celluolose, thick encases or surrounds plant cells
13. Watery substance that fills the interior of cells and suspends organelles
14. Semipermeable barrier made of two layers of phospholipids
15. Storage sacs; plant cells have a single large one; animal cells have many smaller ones
16. Membranous structure that synthesizes fats (lipids)
17. Membranous structure that synthesizes proteins
18. Uncoiled DNA; coils into chromosomes during cell division
19. Location where photosynthesis occurs
20. Location where ribosomes are formed
21. Makes up cilia, flagella, and centrioles
22. Act as a transport system for newly formed proteins
23. Processes, packages, and stores the fats and proteins produced by the ER
24. Structures found only in plant cells; chloroplasts are one type
25. Involved in muscle contraction in larger organisms