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Bio 2311
Review sheet 3

2. The proper technique for transporting the microscope is to use both hands to carry the microscope, one is supporting the base and the other is holding the arm.

3. 1) grit-free lens paper
2) low-power or scanning
3) true
4) away from
5) true

4. 1) spring clips
2) iris diaphragm
3) mechanical stage
4) condenser
5) fine adjustment knob
6) nosepiece

5. Total magnification: an image that appears to be where it is not.

Resolution: the ability to discriminate two closely situated objects as separate

6. 1) working distance
2) to the left
3) field
4) 95
5) increases contrast
6) parfocal
7) 0.75
8) 0.4

7.

8. 50x
2.5mm
500x

9. The field decreases proportionately as magnification increases. Only when the object is centered at low power, will it be outside the high-power field.

B) Center the object that you would want to view.

10. Resolution: increases
Working distance: decreases
Amount of light needed: increases
Depth of field: decreases

11. The working distance for the high power lens is closer to 1mm..

12. Place the specimen on a slide using a medicine dropper > mix specimen in the drop using a toothpick

13. A) the lens is not correctly rotated in place..

B) the slide isn't correctly positioned in the clamp on the mechanical stage doesn't move when the mechanical stage does.

Review sheet 4

1. Highly organized intracellular structure that performs a specific (metabolic) function for the cell.
The basic structural and functional unit of living organisms.
2. All cells have the ability to metabolize, move, reproduce, grow, respond and to a stimulus.
3. Plasma membrane

Lysosomes
Mitochondria
Microvilli
Inclusions
Golgi apparatus
Nucleus
Centrioles
Microfilaments
Rough ER or endoplasmic reticulum
Ribosomes
Chromatin or chromatin threads
Peroxisome

4. Image
5. A. Cells fit closely together like tiles
b. Lining or covering tissue
A. Has a tail
B. Allows sperm to propel itself to an egg
A. Cells have an elongated shape
B. A long axis allows a greater degree
A. Donut/ disc shape
B. Large surface, has a lot of space
6. Doesn't produce new proteins etc
Yes
Before its released into the bloodstream
7. Sperm
Smooth muscle
8. Metaphase
Anaphase
Prophase
9. Provide cells for growth
- 10.
11.
 1. Nucleus
 2. Cytoplasm
 3. Coiled
 4. centromeres
 5. Multinucleated cell

6. Spindle
7. Interphase
8. Neurons
9. Skeletal and cardiac muscle cells

12. D

A

E

E

C

D

D

B

B

D

D

E

A and c