Visual Anatomy and Physiology Lab Manual Cat Version 2nd Edition Sarikas Test Bank

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Visual Anatomy & Physiology Lab Manual, 2e (Sarikas) Exercise 2 Care and Use of the Compound Light Microscope

2.1 Pre-lab Questions
1) The controls the brightness of the light emitted from the substage light source. A) iris diaphragm
B) stage
C) mechanical stage
D) condenser lens
Answer: A
Learning Outcome: 2.1
Bloom's Taxonomy: Remembering/Understanding
2) The is a revolving structure that holds the objective lenses.
A) coarse adjustment knob
B) nosepiece
C) mechanical stage control knobs
D) fine adjustment knob
Answer: B
Learning Outcome: 2.1
Bloom's Taxonomy: Remembering/Understanding
3) The total magnification of a specimen can be calculated by multiplying the ocular lens magnification by the lens magnification. A) low power
B) scanning
C) high power
D) objective
Answer: D
Learning Outcome: 2.1
Bloom's Taxonomy: Remembering/Understanding
4) The proper way to carry a microscope is in front of your body with one hand gripping the and the other hand supporting the
A) arm; base
B) head; stage
C) objective lenses; base
D) ocular lenses; arm
Answer: A
Learning Outcome: 2.1
Bloom's Taxonomy: Remembering/Understanding

5) The distance between the objective lens and the microscope stage is called the
A) mechanical stage
B) working distance
C) resolving power
D) total magnification
Answer: B
Learning Outcome: 2.2
Bloom's Taxonomy: Remembering/Understanding
6) All microscope lenses should be cleaned with
A) lens paper
B) tissue paper
C) paper
D) paper towels
Answer: A
Learning Outcome: 2.2
Bloom's Taxonomy: Remembering/Understanding
7) If a microscope is, then the user will not have to make adjustments to focus the specimen when switching between objective lenses.
A) compound
B) binocular
C) parfocal
D) monocular
Answer: C
Learning Outcome: 2.2
Bloom's Taxonomy: Remembering/Understanding
2) Inversion of image many that when viewing a precious with a light microscope the image
8) Inversion of image means that when viewing a specimen with a light microscope, the image
that you see will be and
A) distorted; magnified
B) magnified; inverted
C) inverted; reversed D) magnified; reversed
D) magnified; reversed Answer: C
Learning Outcome: 2.3
Bloom's Taxonomy: Remembering/Understanding
9) The lens is known as the oil immersion lens.
A) 4×
B) 10×
C) 40×
D) 100×
Answer: D
Learning Outcome: 2.1
Bloom's Taxonomy: Remembering/Understanding

10) As the user switches to a higher-power lens to increase total magnification, the field of view
A) decreases B) decreases 4×
C) increases
D) remains the same
Answer: A
Learning Outcome: 2.5 Bloom's Taxonomy: Applying/Analyzing
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2.2 Post-lab Questions
1) Calculate the total magnification of a specimen if the magnification of the ocular lens is $10\times$ and the magnification of the objective lens is $45\times$. A) $450\times$
B) 4.5×
C) 45×
D) 4500×
Answer: A
Learning Outcome: 2.1
Bloom's Taxonomy: Applying/Analyzing
2) The ability to distinguish close objects as separate and distinct is known asA) working distanceB) field of viewC) resolving power.
C) resolving power D) depth of field
Answer: C
Learning Outcome: 2.2
Bloom's Taxonomy: Remembering/Understanding
3) The coarse and fine adjustment knobs are used to A) nosepiece
B) make initial and subsequent focusing adjustments when viewing a specimen.C) secure the specimen on the stageD) illuminate the specimen
Answer: B
Learning Outcome: 2.1
Bloom's Taxonomy: Remembering/Understanding

4) As the coarse adjustment knob is turned, the stage (or in some cases the nosepiece)
A) remains stationary
B) moves forward or backward
C) moves up or down, depending on the direction that the knob is turned
D) moves left or right, depending on the direction that the knob is turned
Answer: C
Learning Outcome: 2.1
Bloom's Taxonomy: Applying/Analyzing
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5) As the resolving power of the objective lens increases, the working distance
A) increases
B) decreases
C) increases by a factor of 10
D) remains the same
Answer: B
Learning Outcome: 2.2
Bloom's Taxonomy: Applying/Analyzing
bloom's Taxonomy. Applying/Analyzing
6) If the microscope is not parfocal, the user should make focusing adjustments using the
adjustment knob when viewing a specimen under high power.
A) coarse
B) condenser
C) stage
D) fine
Answer: D
Learning Outcome: 2.2
Bloom's Taxonomy: Applying/Analyzing
Bloom's Taxonomy. Applying/Analyzing
7) To avoid damaging a lens or breaking a slide, the user should always begin viewing a
specimen with the power objective lens.
A) medium
B) lowest
C) oil immersion
D) highest
Answer: B
Learning Outcome: 2.2
Bloom's Taxonomy: Applying/Analyzing

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- 8) If a student uses a parfocal compound light microscope, which of the following would be true?
- A) The focus will have to be adjusted using the mechanical stage control knob.
- B) After the initial focus adjustments are made, the image should remain in focus as the specimen is viewed with each objective lens.
- C) The focus will have to be adjusted using the coarse adjustment knob.
- D) The focus will have to be adjusted using the fine adjustment knob.

Answer: B

Learning Outcome: 2.2

Bloom's Taxonomy: Remembering/Understanding

- 9) At a total magnification of $100\times$, the diameter of the field of view is 6 mm. If the total magnification is increased to $1000\times$, the diameter of the field of view is _____.
- A) 0.6 mm
- B) 0.06 mm
- C) 60 mm
- D) 600 mm

Answer: A

Learning Outcome: 2.5

Bloom's Taxonomy: Applying/Analyzing

- 10) Assume a structure within a specimen fills approximately 25 percent of the diameter of the field of view. If the field diameter is known to be 3.5 mm, calculate the size of the structure.
- A) 0.14 mm
- B) 14 mm
- C) 0.875 mm
- D) 0.0875 mm

Answer: C

Learning Outcome: 2.5

Bloom's Taxonomy: Applying/Analyzing