

# Walden University NURS 6501 Final Exam– Question and answers

Advanced Pathophysiology (Walden University)

# Walden University NURS 6501 Final Exam– Question and Answers (Correct Answers).

## Results Displayed: Selected Answers and Correct Answers

### Question 1

1 out of 1 points

An aide asks the nurse why people who have neurofibromatosis will show varying degrees of the disease. Which genetic principle should the nurse explain to the aide?

Selected Answer:  b.  
Expressivity

Correct Answer:  b.  
Expressivity

### Question 2

1 out of 1 points

Why is potassium able to diffuse easily in and out of cells?

Selected Answer:  c.  
Because the resting plasma membrane is more permeable to potassium

Correct Answer:  c.  
Because the resting plasma membrane is more permeable to potassium

### Question 3

1 out of 1 points

A 15-year-old female is diagnosed with Prader-Willi syndrome. This condition is an example of:

Selected Answer:  a.  
Gene imprinting

Correct Answer:  a.  
Gene imprinting

### Question 4

1 out of 1 points

A nurse is reading a chart and sees the term oncotic pressure. The nurse recalls that oncotic pressure (colloid osmotic pressure) is determined by:

Selected Answer:  b.  
Plasma proteins

Correct Answer:  b.

## Plasma proteins

### Question 5

1 out of 1 points

During childhood, the thymus decreases in size, and this is referred to as \_\_\_\_\_ atrophy.

Selected Answer:  a.  
Physiologic

Correct Answer:  a.  
Physiologic

### Question 6

1 out of 1 points

What is the role of cytokines in cell reproduction?

Selected Answer:  a.  
Provide growth factor for tissue growth and development

Correct Answer:  a.  
Provide growth factor for tissue growth and development

### Question 7

1 out of 1 points

When a patient asks what causes cystic fibrosis, how should the nurse respond? Cystic fibrosis is caused by an \_\_\_\_\_ gene.

Selected Answer:  d.  
Autosomal recessive

Correct Answer:  d.  
Autosomal recessive

### Question 8

1 out of 1 points

A patient has a heart attack that leads to progressive cell injury that causes cell death with severe cell swelling and breakdown of organelles. What term would the nurse use to define this process?

Selected Answer:  d.  
Necrosis

Correct Answer:  d.  
Necrosis

### Question 9

1 out of 1 points

A eukaryotic cell is undergoing DNA replication. In which region of the cell would most of the genetic information be contained?

Selected Answer:  c.  
Nucleolus

Correct Answer:  c.  
Nucleolus

### Question 10

1 out of 1 points

A nurse is discussing the movement of fluid across the arterial end of capillary membranes into the interstitial fluid surrounding the capillary. Which process of fluid movement is the nurse describing?

Selected Answer:  a.  
Hydrostatic pressure

Correct Answer:  a.  
Hydrostatic pressure

### Question 11

1 out of 1 points

How are potassium and sodium transported across plasma membranes?

Selected Answer:  c.  
By adenosine triphosphate enzyme (ATPase)

Correct Answer:  c.  
By adenosine triphosphate enzyme (ATPase)

### Question 12

1 out of 1 points

The early dilation (swelling) of the cell's endoplasmic reticulum results in:

Selected Answer:  c.  
Reduced protein synthesis

Correct Answer:  c.  
Reduced protein synthesis

### Question 13

1 out of 1 points

The ion transporter that moves  $\text{Na}^+$  and  $\text{Ca}^{2+}$  simultaneously in the same direction is an example of which of the following types of transport?

Selected Answer:  d.  
Symport

Correct Answer:  d.  
Symport

### Question 14

1 out of 1 points

A newborn male is diagnosed with albinism based on skin, eye, and hair appearance. Which finding will support this diagnosis?

Selected Answer:  Inability to convert tyrosine to DOPA (3,4 dihydroxyphenylalanine)

Correct Answer:  Inability to convert tyrosine to DOPA (3,4 dihydroxyphenylalanine)

### Question 15

1 out of 1 points

A patient wants to know the risk factors for Down syndrome. What is the nurse's best response?

Selected Answer:  d. Pregnancy in women over age 35

Correct Answer:  d. Pregnancy in women over age 35

### Question 16

0 out of 1 points

The student is reviewing functions of the cell. The student would be correct in identifying the primary function of the nerve cell as:

Selected Answer:  b. Conductivity

Correct Answer:  d. Communication

### Question 17

1 out of 1 points

A 20-year-old pregnant female gives birth to a stillborn child. Autopsy reveals that the fetus has 92 chromosomes. What term may be on the autopsy report to describe this condition?

Selected Answer:  c. Tetraploidy

Correct Answer:  c. Tetraploidy

### Question 18

1 out of 1 points

Sodium and water accumulation in an injured cell are a direct result of:

Selected Answer:  a. Decreased ATP production

Correct Answer:  a.  
Decreased ATP production

**Question 19**

1 out of 1 points

Which of the following mutations have the most significant effect on protein synthesis?

Selected Answer:  d.  
Frameshift mutations

Correct Answer:  d.  
Frameshift mutations

**Question 20**

1 out of 1 points

A 55-year-old male with a 30-year history of smoking is examined for respiratory disturbance. Examination of his airway (bronchial) reveals that stratified squamous epithelial cells have replaced the normal columnar ciliated cells. This type of cellular adaptation is called:

Selected Answer:  c.  
Metaplasia

Correct Answer:  c.  
Metaplasia

**Question 21**

1 out of 1 points

A nurse is teaching a patient with diabetes how glucose is transported from the blood to the cell. What type of transport system should the nurse discuss with the patient?

Selected Answer:  d.  
Passive-mediated transport (facilitated diffusion)

Correct Answer:  d.  
Passive-mediated transport (facilitated diffusion)

**Question 22**

1 out of 1 points

What is the diagnosis of a 13-year-old female who has a karyotype that reveals an absent homologous X chromosome with only a single X chromosome present? Her features include a short stature, widely spaced nipples, reduced carrying angle at the elbow, and sparse body hair.

Selected Answer:  c.  
Turner syndrome

Correct Answer:  c.  
Turner syndrome

### Question 23

0 out of 1 points

A cell is isolated, and electrophysiology studies reveal that the resting membrane potential is  $-70$  millivolts. The predominant intracellular ion is  $\text{Na}^+$ , and the predominant extracellular ion is  $\text{K}^+$ . With voltage change, which of the following would result in an action potential?

Selected Answer:  a.  
 $\text{K}^+$  rushing into the cell

Correct Answer:  b.  
 $\text{Na}^+$  rushing into the cell

### Question 24

1 out of 1 points

A group of prison inmates developed tuberculosis following exposure to an infected inmate. On examination, tissues were soft and granular (like clumped cheese). Which of the following is the most likely cause?

Selected Answer:  c.  
Caseous necrosis

Correct Answer:  c.  
Caseous necrosis

### Question 25

1 out of 1 points

A runner has depleted all the oxygen available for muscle energy. Which of the following will facilitate his continued muscle performance?

Selected Answer:  c.  
Anaerobic glycolysis

Correct Answer:  c.  
Anaerobic glycolysis

### Question 26

0 out of 0 points

When completing this quiz, did you comply with Walden University's Code of Conduct including the expectations for academic integrity?

Selected Answer:   
Yes

Correct Answer:   
Yes

### Question 27

1 out of 1 points

A 19-year-old female presents with genital warts. Which of the following would cause this condition?

Selected Answer:  c.  
HPV

Correct Answer:  c.  
HPV

**Question 28**

1 out of 1 points

In the majority of cases delayed puberty is due to:

Selected Answer:  c.  
Slow maturation

Correct Answer:  c.  
Slow maturation

**Question 29**

1 out of 1 points

A 35-year-old female is diagnosed with endometriosis. Suppressing which of the following would be the most appropriate medical treatment for this disease?

Selected Answer:  b.  
Ovulation

Correct Answer:  b.



Ovulation

**Question 30**

1 out of 1 points

The nurse would anticipate the treatment for pelvic organ prolapse to be:

Selected Answer:

b.

A pessary

Correct Answer:

b.

A pessary

**Question 31**

1 out of 1 points

While preparing to teach the staff about female anatomy, which information should be included? During the years that a woman is more likely to be sexually active, the vagina mucosa is protected from infection by:

Selected Answer:

b.

An acidic pH

Correct Answer:

b.

An acidic pH

**Question 32**

1 out of 1 points

While speaking to a group of older males, which information should the nurse share? The following is a normal characteristic of aging and the male reproductive system:

Selected Answer:

d.

Refractory time after ejaculation is prolonged.

Correct Answer:  d.

Refractory time after ejaculation is prolonged.

**Question 33**

1 out of 1 points

A 40-year-old female presents with cramping and excessive vaginal bleeding. Ultrasound reveals benign uterine tumors in the smooth muscle cells of the myometrium. These tumors are commonly called:

Selected Answer:  c.

Leiomyomas

Correct Answer:  c.

Leiomyomas

**Question 34**

1 out of 1 points

The most commonly occurring cancer of the female reproductive tract is \_\_\_\_\_ cancer.

Selected Answer:  a.

Cervical

Correct Answer:  a.

Cervical

**Question 35**

1 out of 1 points

Changes in the cervical mucus can be used to identify the periods in which a female is most