



## 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

fertile. How should the nurse describe cervical mucus during ovulation?

Selected Answer:

 b.

Thin and watery

Correct Answer:

 b.

Thin and watery

### Question 36

1 out of 1 points

Which information indicates the nurse has a good understanding of the menstrual cycle?  
When estrogen and progesterone levels drop, the endometrium enters the \_\_\_\_\_ phase.

Selected Answer:

 c.

Menstrual

Correct Answer:

 c.

Menstrual

### Question 37

1 out of 1 points

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

Selected Answer:

 b.

A pessary

Correct Answer:


 b.

A pessary


### Question 38

1 out of 1 points

An 18-year-old female is diagnosed with dysmenorrhea. Which of the following symptoms will she most likely experience?

Selected Answer:  b.

Painful menstruation


Correct Answer:  b.

Painful menstruation


### Question 39

1 out of 1 points

A 21-year-old female is infected with human papillomavirus (HPV) following unprotected sexual intercourse with a male she recently met. She is now at higher risk of developing which of the following cancers?

Selected Answer:  a.

Cervical


Correct Answer:  a.

Cervical


### Question 40

1 out of 1 points

A nurse is teaching the staff about female hormones. Which hormone promotes the formation of channels in the mucus of the cervical os to facilitate sperm movement into the uterus?

Selected Answer:  d.

Estrogen

Correct Answer:  d.

Estrogen

**Question 41**

1 out of 1 points

When the nurse describes the duct that carries the ovum from the ovary to the uterus, what is the nurse discussing? The:

Selected Answer:

 d.

Fallopian tube

Correct Answer:

 d.

Fallopian tube

**Question 42**

1 out of 1 points

A 20-year-old female presents with pelvic and back pain severe enough to miss work. She reports that the pain occurs with the onset of menses. Physical examination fails to find pelvic pathology. The most likely cause of her condition is:

Selected Answer:

 c.

Elevated prostaglandins

Correct Answer:

 c.


Elevated prostaglandins

**Question 43**


1 out of 1 points

When discussing the difference between male and female sex hormones, which information should the nurse include? The major difference between male and female sex hormone

production is that:

Selected Answer:  b.

Sex hormone production in the male is relatively constant.


Correct Answer:  b.

Sex hormone production in the male is relatively constant.


#### Question 44

1 out of 1 points

A 25-year-old female presents with amenorrhea and hirsutism. She is diagnosed with PCOS. Lab testing will most likely reveal:

Selected Answer:  d.

Hyperinsulinemia


Correct Answer:  d.

Hyperinsulinemia


#### Question 45

1 out of 1 points

A syndrome often associated with cystocele is:

Selected Answer:  c.

Stress incontinence


Correct Answer:  c.


Stress incontinence

#### Question 46

1 out of 1 points

An example of a parasitic STI that is transmitted through close skin-to-skin contact is:


Selected Answer:  c.  
Scabies


Correct Answer:  c.  
Scabies

#### Question 47

1 out of 1 points

Symptoms of prostatitis are similar to symptoms of:


Selected Answer:  c.  
Urinary tract infection (UTI)


Correct Answer:  c.  
Urinary tract infection (UTI)

#### Question 48

1 out of 1 points

A nursing student asks the nurse where the glands of Montgomery are located. How should the nurse reply? The glands of Montgomery are located in the:


Selected Answer:  b.  
Breasts

Correct Answer:  b.  
Breasts


#### Question 49

1 out of 1 points

A 23-year-old sexually active female presents with white copious discharge and itch. She is diagnosed with yeast vaginitis caused by overgrowth of which microorganism?

Selected Answer:  c.

*Candida albicans*


Correct Answer:  c.

*Candida albicans*


#### Question 50

1 out of 1 points

When a staff member asks which structure secretes glucose-rich fluid into the semen, how should the nurse respond?

Selected Answer:  a.

Seminal vesicles


Correct Answer:  a.

Seminal vesicles

#### Question51

1 out of 1 points

A middle-aged male speaks to his physician about benign BPH. He reveals that his father was recently diagnosed with this condition, and he wants to know if he could have it. The physician tells him that a common complaint from men with mild to moderate BPH is:

Selected Answer:  a.



Decreased urinary stream

Correct Answer:

 a.

Decreased urinary stream

### Question 52

1 out of 1 points

A 38-year-old female was recently diagnosed with cancer. She learns that her mother almost miscarried while pregnant with her and was given diethylstilbestrol (DES) to prevent it. Which of the following cancers does she most likely have?

Selected Answer:

 b.

Vaginal

Correct Answer:

 b.

Vaginal

### Question 53

1 out of 1 points

Which of the following signs is usually the first clinical manifestation of breast cancer?

Selected Answer:

 d.

A painless lump

Correct Answer:

 d.


A painless lump


### Question 54

1 out of 1 points

When a teenager asks what makes the breast grow, what is the nurse's best response? The

hormone that promotes breast development during puberty is:


Selected Answer:  d.  
Estradiol


Correct Answer:  d.  
Estradiol

#### Question 55

1 out of 1 points

Progesterone is often referred to as “the hormone of pregnancy,” and the patient asks what this phrase means. How should the nurse respond? Progesterone is the hormone of pregnancy because it:


Selected Answer:  d.  
Prevents smooth muscle contraction of the uterus


Correct Answer:  d.  
Prevents smooth muscle contraction of the uterus

#### Question 56

1 out of 1 points

A 35-year-old female presents with infertility and gradual blindness. She reports that she has otherwise been healthy. History reveals that she was promiscuous and had unprotected sexual intercourse several times when she was younger. She now has neurological involvement. Which of the following sexually transmitted infection (STI) does she most likely have?

Selected Answer:  a.  
Syphilis

Correct Answer:  a.  
Syphilis

### Question 57

1 out of 1 points

When a staff member asks the nurse what the thick middle layer of the uterine wall is called, what is the nurse's best response? The:

Selected Answer:



c.

Myometrium

Correct Answer:



c.

Myometrium

### Question 58

1 out of 1 points

\_\_\_\_\_ is inflammation of the glans penis.

Selected Answer:



b.

Balanitis

Correct Answer:



b.

Balanitis

### Question 58

1 out of 1 points

A 21-year-old male presents with inflammation of the testes. He has a high fever and edema and redness of the testes. Which organism is the most likely the cause of his symptoms?

Selected Answer:



c.

Mumps

Correct Answer:



c.

Mumps

#### Question 59

1 out of 1 points

A 56-year-old female is in menopause. She has ovarian failure. While checking the lab results, which of the following will the nurse find?

Selected Answer:



a.

Increased FSH

Correct Answer:



a.

Increased FSH

#### Question 60

1 out of 1 points

When a patient who is trying to get pregnant asks where the usual site of fertilization is, how should the nurse respond? The:

Selected Answer:



c.

Ampulla of the fallopian tubes

Correct Answer:




c.

Ampulla of the fallopian tubes


#### Question 61

61 out of 1 points

A student asks the instructor which of the following hormones stimulates follicular maturation. How should the instructor respond?

Selected Answer:  c.

LH


Correct Answer:  c.

LH


### Question 62

1 out of 1 points

A 40-year-old male is concerned about the possibility of developing prostate cancer. He reports that his father died of prostate cancer, and he wants to take all preventive measures. He is told to consume a diet low in:

Selected Answer:  a.

Fat


Correct Answer:  a.

Fat


### Question 63

1 out of 1 points

A patient asks the nurse what is the most sensitive area of the penis. What is the nurse's best answer? The area of the penis with the most nerve endings is the:

Selected Answer:  b.

Glans


Correct Answer:  b.

Glans


### Question 64

1 out of 1 points

What term should the nurse use when discussing male sex hormones collectively?

Selected Answer:  d.

Androgens


Correct Answer:  d.

Androgens


#### Question 65

1 out of 1 points

When the nurse is teaching about the menstrual cycle, which information should be included? Menstruation is followed by the \_\_\_\_\_ phase of the menstrual cycle.

Selected Answer:  a.

Follicular


Correct Answer:  a.

Follicular


#### Question 66

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

