

يتكون هذا الاختبار من (100) سؤال موضوعي من نوع الاختيار من متعدد، الإجابة عنها إجبارية. ظلل بقلم الرصاص بشكل غامق الدائرة التي تشير إلى الإجابة الصحيحة في المكان المخصص لذلك في نموذج الإجابة المرفق.

Clinical Chemistry

1. Which of the following statements is correct about anterior pituitary gland?
 - a- Secrete Antidiuretic hormone ADH
 - b- Release trophic hormones that control the endocrine glands
 - c- Secrete Oxytocine hormone
 - d- Primary hyperpituitasim caused by disorders in hypothalamus.
2. The disease results from primary hypothyroidism is:

| | |
|------------------------|------------------------|
| a- Grave's disease | b- Acromegaly |
| c- Hashimoto's disease | d- Hyperparathyroidism |
3. Which of the following laboratory results are correct about Secondary hypercortisolism (Cushing's syndrome):
 - a- Increased cortisol and increased ACTH.
 - b- Increased cortisol and decreased ACTH.
 - c- Decreased cortisol and decreased ACTH.
 - d- Decreased free cortisol in urine.
4. The correct statement about Adrenal Medulla is:
 - a- Secrete Cortisol, Aldosterone and adrenal androgens
 - b- Secrete both epinephrine and norepinephrine
 - c- Constitute 90% of adrenal gland
 - d- All of the above
5. From the clinical manifestations of liver disease is deterioration of brain function due to buildup of toxic substances that are normally removed by the liver, this is called:

| | |
|------------------------|---------------------------|
| a- Jaundice | b- Cholestasis |
| c- Portal hypertension | d- Hepatic encephalopathy |
6. Which of the following enzymes is the most specific to the liver?

| | |
|-------------------------------|---------------------------------|
| a- Alanine transaminase (ALT) | b- Aspartate transaminase (AST) |
| c- Alkaline Phosphatase (ALP) | d- Lactate dehydrogenase(LD) |
7. Which type of jaundice that shows the following results: serum unconjugated bilirubin is very high, urine urobilinogen is markedly increased and urine bilirubin is negative?

| | |
|---------------------------|--------------------------|
| a- Pre-hepatic jaundice | b- Hepatic jaundice |
| c- Physiological jaundice | d- Post-hepatic jaundice |
8. Which of the following statements is correct about bilirubin?
 - a- Conjugation process carried in Kidney.
 - b- Unconjugated bilirubin is water soluble.
 - c- Bilirubin is a breakdown product of hemoglobin.
 - d- Unconjugated bilirubin could be measured directly in laboratory.

19. The correct statement about Phosphate is:

- a- Vitamin D decrease phosphate concentration in blood
- b- Increased dietary intake of phosphate lead to hypophosphatemia
- c- Normal range of serum phosphate concentrations is higher in children than in adult
- d- Most of body phosphates are found in blood

20. What is the correct statement about Hypocalcemia?

- a- Decrease in Vitamin D leads to decrease serum level of calcium
- b- Hypocalcemia are seen in malignancies
- c- Hypocalcemia are caused by hyperparathyroidism
- d- Increased dietary intake of calcium may cause Hypocalcemia

Microbiology 1& 2

21. All of the following could be used as disinfectants except:

- a- Halogens
- b- Aldehydes
- c- Phenols
- d- Normal saline

22. An epidemic disease which spreads to several countries and affect large numbers of people is:

- a- Pandemic
- b- Epidemic
- c- Sporadic
- d- Zoonotic

23. A localized region on the surface of an antigen that is recognized by the antibody is:

- a- Epitope (antigenic determinant)
- b- Heavy chain
- c- Light chain
- d- Constant region

24. One of the following disease dose not acquired by respiration:

- a- Tuberculosis
- b- Measles
- c- Typhoid
- d- Pneumonia

25. Which of the following is not a characteristic of prokaryotic cells?

- a- Ribosome's
- b- Cytoplasm
- c- DNA
- d- Nuclear membrane

26. Which of the following is a known characteristic of the virus:

- a- Reproduce outside the living cells
- b- Contains ribosome
- c- Contains mitochondria
- d- Contains either RNA or DNA

27. Pharmaceutical products can be sterilized by:

- a- Filtration
- b- Autoclave
- c- Boiling
- d- Hot air oven

28. If the cells in a bacterial culture are dying at the same rate as they are reproducing, the population is in the:
- Exponential (logarithmic) phase
 - Lag phase
 - Stationary phase
 - Death phase
29. Mechanisms of phagocytosis occur according to the following order:
- Attraction, adhesion, engulf, and kill the foreign cell
 - Engulf, attraction, adhesion, and kill the foreign cell
 - Attraction, kill the foreign cell, engulf, and adhesion
 - Engulf, adhesion, attraction, and kill the foreign cell
30. The wave length of ultraviolet radiation which cause cell damage by inhibition DNA replication is:
- | | |
|---------------|---------------|
| a- 240-280 nm | b- 100-120 nm |
| c- 200-300 nm | d- 400-480 nm |
31. Shigellosis is a common disease in travelers to developing countries. Infection is commonly acquired through the :
- | | |
|---------------------------|----------------------|
| a- Gastrointestinal tract | b- Genital tract |
| c- Skin | d- Respiratory tract |
32. Which virulence factor results in the symptoms of Staphylococcal food poisoning?
- | | |
|-------------------------|----------------|
| a- Exfoliative exotoxin | b- Coagulase |
| c- Endotoxin | d- Enterotoxin |
33. Following infection with *Streptococcus pyogenes*, antibody titers may be raised to:
- | | |
|--------------------|--------------------|
| a- Streptolysin- O | b- Hyaluronic acid |
| c- DNase | d- Catalase |
34. *Escherichia coli* is characterized by the following **except**:
- The most commensal organism in the gut.
 - The most frequent etiological agent of urinary tract infection.
 - Produces bright pink colonies on MacConkey agar.
 - Gram positive rod.
35. The causative agent of Enteric fever is:
- | | |
|-----------------------------------|----------------------------------|
| a- <i>Enterococcus faecalis</i> . | b- <i>Salmonella typhi</i> . |
| c- <i>Giardia lamblia</i> . | d- <i>Salmonella typhimurium</i> |
36. Mortality rate is defined as:
- Number of peoples affected in relation to total population in a given time period
 - Number of deaths from a disease in relation to the population in a given time period
 - The rate of bacterial movement in a given media
 - The percentage of motile bacteria

- 45. Examples of apocrine glands include which of the following?**
- a- Mammary and some sweat glands
 - b- Thyroid and adrenal glands
 - c- Salivary and sebaceous glands
 - d- Pancreas and ovary
- 46. Which term describes a band of dense regular connective tissue that attaches two bones?**
- a- Aponeurosis
 - b- Tendon
 - c- Ligament
 - d- Capsule
- 47. Which type of tissue facilitates movement of the skeleton or organ walls?**
- a- Epithelial
 - b- Muscular
 - c- Connective
 - d- Nervous
- 48. The two types of cells in nervous tissue are:**
- a- Dendrites and axons
 - b- Nerve processes and nerve fibers
 - c- Satellite cells and neurons
 - d- Neurons and glial cells
- 49. All of the following are types of serous membranes except:**
- a- Pleurae
 - b- Perichondrium
 - c- Peritoneum
 - d- Pericardium
- 50. Nervous tissue cells that play several supporting roles but do not transmit impulses are called:**
- a- Glial cells
 - b- Dendrites
 - c- Nerve cells
 - d- Neurons
- 51. The minute passage ways in the bony matrix that allow osteocytes to communicate with each other are called:**
- a- Lamellae
 - b- Lacunae
 - c- Osteons
 - d- Canaliculi
- 52. After dehydration, it is necessary to further treat tissue blocks with a reagent that is miscible with both alcohol and paraffin wax. For this purpose we used:**
- a- Xylene
 - b- Formalin
 - c- Paraffin
 - d- Acetic acid
- 53. Positive reaction, in the PAS relies on the presence of which groups?**
- a- Aldehyde
 - b- Anionic
 - c- Cationic
 - d- β -pleated proteins
- 54. The aim of dehydration is to:**
- a- Add water to the tissue
 - b- Add paraffin to the tissue
 - c- Remove water from the tissue
 - d- Remove paraffin from the tissue

- 76. Leukemia's are classified into severe and chronic according to:**
- a- Percentage of blast cells in peripheral blood
 - b- Type of proliferative cell
 - c- Severity of clinical features
 - d- Age and sex of patient
- 77. Von Willebrand factor is part of:**
- a- V factor
 - b- VII factor
 - c- VIII factor
 - d- IX factor
- 78. Which of the following findings belongs to hemophilia A:**
- a- High PT
 - b- High APTT
 - c- Increase FDPs
 - d- Increase factor VIII
- 79. In which diseases you will find the following results: RBCs count decreased, platelets count decreased and fibrinogen decreased?**
- a- DIC
 - b- Von Willebrand's disease
 - c- Myelofibrosis
 - d- Hemophilia B
- 80. Severe burns causes one of the followings:**
- a- Primary polycythemia
 - b- secondary polycythemia
 - c- Polycythemia vera
 - d- relative polycythemia

Blood Bank

- 81. The anticoagulant CPDA can preserve the blood for:**
- a- 21 days
 - b- 35 days
 - c- 39 days
 - d- 42 days
- 82. One of the following changes occur in stored whole blood:**
- a- pH decrease
 - b- Potassium in plasma decrease
 - c- ATP increase
 - d- Levels of factor VIII increase
- 83. The main blood bag contain approximately:**
- a- 200 ml
 - b- 300 ml
 - c- 400 ml
 - d- 500 ml
- 84. Transfusion of incompatible blood causes:**
- a- Lymphopenia
 - b- Circulatory overload
 - c- Allergic reaction
 - d- Hemolytic reaction
- 85. A person that can donate blood is:**
- a- A male with hemoglobin 12 g/dl
 - b- A female who is 55 kg weight
 - c- 17 years old male
 - d- A pregnant woman

98. Which of the following is true about sensitization:

- a- Invisible reaction
- b- Occur in vivo only
- c- Irreversible
- d- One antibody sensitize every RBC

99. Anti human globulin reagent is necessary for:

- a- Direct ABO grouping
- b- Indirect ABO grouping
- c- Rh test
- d- Du test

100. Group- B patients can take whole blood from:

- a- Group B only
- b- Group B & O
- c- Group B & AB
- d- Group B & O & AB

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