

80833

1. Select the one false statement below:

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|---|---|---|--|
| A | The Fc portion of an antibody is the "stem" portion of the Y-shaped molecule. | B | The canine liver produces growth hormone. |
| C | Antibodies may act as antigens. | D | IgG is often not found in many animal species. |
| E | sIgA has 4 antigen binding sites. | F | IgM usually has 10 antigen binding sites. |

2. This vitamin is very important for the proper functioning of T-cells.

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|---|---|---|-----|
| A | A | B | B12 |
| C | D | D | B5 |
| E | K | F | C |

3. These cells make up the cell-mediated immune response system.

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|---|---------------|---|-------------|
| A | T-cells | B | eosinophils |
| C | B-cells | D | hepatocytes |
| E | splenic cells | F | neutrophils |

4. This is the WBC that is most prevalent in a 6-month old lamb on pasture.

- | | | | |
|---|-------------|---|------------|
| A | erythrocyte | B | monocyte |
| C | NK cell | D | neutrophil |
| E | plasma cell | F | beta cell |

5. This immunoglobulin is involved in allergic reactions.

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|---|------------|---|-----------|
| A | interferon | B | histamine |
| C | IgG | D | IgE |
| E | IL-1 | F | IgA |

6. The IgM immunoglobulin molecule contains _____ antigen binding sites.

- | | | | |
|---|----|---|---|
| A | 8 | B | 2 |
| C | 4 | D | 6 |
| E | 10 | F | 1 |

7. Where is the popliteal lymph node located in the dog?

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|---|---|---|---------------------------------|
| A | on the medial plane of the neck | B | right on the sternum |
| C | 2.5 cm on either side of the thymus gland | D | behind the knees (on rear legs) |
| E | in the paralumbar region | F | next to the thyroid gland |

8. This enzyme is often found in the tears of mammals.
- A ACE
 - B lipase
 - C aromatase
 - D lysozyme
 - E appease
 - F arginase
9. In general, _____ virus vaccines provide longer-term immunity than killed virus vaccines do.
- A DNA
 - B retro-
 - C modified-live
 - D frozen
 - E RNA
 - F live
10. Secretory IgA usually occurs as a(n) _____.
- A dimer
 - B pentamer
 - C enzyme
 - D complement protein
 - E dead cell
 - F monomer
11. _____ make up the immune branch known as humoral immunity.
- A Macrophages
 - B B cells and their products
 - C NK cells
 - D Neutrophils
 - E Thyroid glands
 - F All leukocytes
12. One characteristic of an antiserum is that it contains high concentrations of _____.
- A lymph fluid.
 - B specific antibodies.
 - C saline.
 - D specific antigens.
 - E albumin.
 - F thrombocytes.
13. Antibodies that bind to surface antigens (for example, on bacteria) will attract the first component of the _____ with their Fc region and initiate activation of the MAC system.
- A CLAD
 - B ESP-system
 - C complement cascade
 - D monoclonal system
 - E histolysis system
 - F Z-system
14. The Classical Pathway of activating complement involves _____.
- A allergic reactions.
 - B splenic cells.
 - C B-cells.
 - D antibodies binding to antigens.
 - E NK cells.
 - F T-cells.

15. Histolysis is a term that means:
- A invaded by macrophages
 - B the breakdown of bodily tissues
 - C no longer producing any hormones
 - D no longer producing progesterone
 - E invaded by neutrophils
 - F loss of WBCs
16. This immunoglobulin crosses the placenta in gravid women.
- A IgE
 - B sIgA
 - C IgG
 - D IgP
 - E IgM
 - F IgA
17. For humans, _____ is the most common cause of immunodeficiency in developing countries.
- A lack of vaccinations
 - B malnutrition
 - C IBR
 - D FeLV
 - E AIDS
 - F disease
18. 1,000 ml = _____ dl
- A 0.010
 - B 10
 - C 1
 - D 100
 - E 0.100
 - F 1,000
19. _____ are the most powerful anti-inflammatory drugs used to control the effects of inflammation in the dog.
- A Interleukins
 - B IL-3
 - C Gonadotropins
 - D PGF-2 alpha
 - E Glucocorticoids
 - F IL-1
20. These cells are famous for producing immunoglobulins.
- A macrophages
 - B neutrophils
 - C plasma cells
 - D eosinophils
 - E thrombocytes
 - F histiocytes
21. A recent dog visitor to class had CCL surgery. These 3 letters stand for:
- A Central Cruciate Luxation
 - B Critical Cruciate Ligament
 - C Critical Central Ligation
 - D Cranial Cruciate Ligament
 - E Caudal Critical Ligation
 - F Caudal Cruciate Ligament

22. The canine innate immune system includes:
- | | |
|---------------------|----------------|
| A IgG | B B cells |
| C intact integument | D plasma cells |
| E T cells | F antiserum |
23. This is the recommended freezer-life of bovine colostrum.
- | | |
|------------|-------------|
| A 24 days | B 1 month |
| C 100 days | D 6 months |
| E 1 year | F 2-3 years |
24. A(n) _____ is the site on an antigen where Ab attaches.
- | | |
|-----------|--------------|
| A cerumen | B complement |
| C BLAD | D biotope |
| E CLAD | F epitope |
25. Select the one false statement.
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|--|---|
| A The thymus gland programs T-cells. | B Lupus is an autoimmune disease in humans. |
| C Excess interstitial fluid will become lymph. | D Lymph nodes store erythrocytes. |
| E Lymph nodes store lymphocytes. | F Rod's favorite pie is sour cream raisin. |
26. This is the only isotype of antibody capable of crossing the placenta to give passive immunity to the fetus.
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|-------|-------|
| A IgE | B IgM |
| C IgK | D IgG |
| E IgD | F IgA |
27. A vaccine contains
- | | |
|-------------------------------------|----------------|
| A autoantibodies. | B interferons. |
| C killed or modified-live antigens. | D MAC. |
| E antibodies. | F prions. |
28. The presence of _____ is the #1 cause of vaccination failure in young animals.
- | | |
|-----------------------|----------------------|
| A maternal antibodies | B pus |
| C pathogens | D maternal antigens |
| E chemotaxis | F retained placentas |