BIOPHARMACEUTICALS
Multiple Choice Questions & Answers

1. The hormone Erythropoietin is involved in the production of_____.
    - A. RBC.
    - B. WBC.
    - C. platelets.
    - D. plasma.
    - **ANSWER: A**

2. Which of the following viral vectors are most often used in clinical gene therapy trials?
    - A. Lentiviral vectors.
    - B. Adenoviral vectors.
    - C. Vaccinia vectors.
    - D. Adeno-associated viral vectors.
    - **ANSWER: B**

3. Which of the following can carry a large amount foreign DNA with them?
    - A. Retrovirus.
    - B. Adenovirus.
    - C. Adeno-associated virus.
    - D. Herpes simplex virus.
    - **ANSWER: B**

4. What does affinity mean
    - A. A measure of how tightly a drug binds to plasma proteins
    - B. A measure of how tightly a drug binds to a receptor
    - C. A measure of inhibiting potency of a drug
    - D. A measure of bioavailability of a drug
    - **ANSWER: B**

5. The anti sense therapy is used to target_____.
    - A. RNA.
    - B. carbohydrate.
    - C. protein.
    - D. lipids.
    - **ANSWER: C**

6. The anti sense oligonucleotide is used in the treatment of_____.
    - A. typhoid.
    - B. malaria.
    - C. tuberculosis.
    - D. cancer.
    - **ANSWER: D**

7. The successful source of lead (drug) is_____.
    - A. natural products.
    - B. synthetic oligonucleotides.
    - C. readymade products.
    - D. synthetic peptides.
    - **ANSWER: A**

8. The anti cancer agent include_____.
    - A. taxol.
    - B. docetaxel.
    - C. camptothecin.
    - D. all the above.
    - **ANSWER: D**

9. The key ingredients in the docking include_____.
    A. representation of the system.
    B. conformational space search.
    C. ranking of potential solution.
    D. all the above.
    ANSWER: D

10. The docking is mainly used in_____.
    A. rational drug design.
    B. combinatorial drug design.
    C. lipid synthesis.
    D. carbohydrate synthesis.
    ANSWER: A

11. The protein molecular modeling by computers is used to study_____.
    A. homology.
    B. threading.
    C. ab initio prediction.
    D. all the above.
    ANSWER: D

12. The comparative modeling is the prediction of 3D structure of a target protein from_____.
    A. primary structure.
    B. secondary structure.
    C. tertiary structure.
    D. quaternary structure.
    ANSWER: A

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