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课程

山东医科大学试

成绩

22

学号

年级

班次

姓名

FINAL EXAMINATION OF PHARMACOLOGY 1992-07-02 7-YMS-1988

PART I CHOICE QUESTION (70)

TYPE A

1. After repeated administration of phenobarbital sodium, the patients complain the drug is useless, this phenomenon is called tolerance of drug which is caused by
- A. inhibition of receptors
 - B. inhibition of microsomal enzyme system.
 - C. stimulation of excretion
 - D. increase the binding of plasma protein
 - E. lowering of bioavailability.
2. One drug is eliminated with the first-order kinetics, $t_{1/2} = 3$ h. If measured the drug's concentration of plasma is 75 ug/ml at 8:00 Am, how much is the drug concentration at 8:00 Pm.
- A. 75 ug/ml.
 - B. 37.5 ug/ml.
 - C. 12.5 ug/ml.
 - D. 4.68 ug/ml.
 - E. 2.37 ug/ml.
3. The maximum effect (E_{max}) that a drug can be achieved by is a measurement of
- A. potency
 - B. the quantal response.
 - C. efficacy.
 - D. antagonist magnitude.
 - E. the therapeutic index (TI).
4. One drug is eliminated with zero-order kinetics, what is the equation of describing the relationship between $t_{1/2}$ and k
- A. $t_{1/2} = 0.693/k$.
 - B. $t_{1/2} = 2C_0/k$
 - C. $t_{1/2} = 0.5C_0/k$
 - D. $k = 0.693/t_{1/2}$
 - E. $k = 0.693 t_{1/2}$
5. All of the following statement about efficacy and potency are true EXCEPT
- A. the ED_{50} is a measurement of a drug's efficacy.
 - B. efficacy is usually a more important clinical consideration than potency.
 - C. efficacy is indicated by the height of the log dose-response curve.
 - D. drug that produce a similar pharmacological effect can have very different levels of efficacy.
 - E. on a log dose-response curve, two drugs with the same action but with different potencies will usually have parallel curve.
6. One weak acidic drug with $pK_a = 5.4$, if the stomach juice $pH = 1.4$, blood plasma $pH = 7.4$, when the distribution reach to equilibrium, what is the drug concentration proportion between blood plasma and stomach juice
- A. 50.
 - B. 100
 - C. 1000.
 - D. 10000.
 - E. 0.1.
7. Which of the following statement concerning drug action is true
- A. gamma globulin can bind to a drug and serve as a drug receptor.
 - B. drug can't act unless it is first bound to a receptor.
 - C. drug can't act unless it is first released from a receptor.
 - D. a drug can act as an antagonist it has efficacy with receptor but no intrinsic activity
 - E. drug receptors play a role in the bioav-