DEPARTMENT OF PHARMACOLOGY AYUB MEDICAL COLLEGE ABBOTTABAD

Block G Assessment(Key) A FOR 3RD YEAR MBBS STUDE YEAR MBBS STUDENTS (HELD ON 29-04-2022)TEMPT ALL QUESTIONS, WRITE CLASS ROLL NUMBERS CLEARLY MULTIPLE CHOICE QUESTIONS

(39 marks)1) Drug metabolism can be induced by the

following factors except

(a) Cigarette smoking

(b) Acute alcohol ingestion

C Exposure to insecticides

(d) Consumption of characoal boiled meat

(c) Therapy with Anti-TB Drugs

2) A drug which does not produce any action by itself but decreases the slope of the log dose-response curve and suppresses the maximal response to another drug is a

(a) Physiological antagonist

(b) Competitive antagonist

O Noncompetitive antagonist

(d) Partial agonist

(e) Chemical Antagonist

3) Kinetic processes of elimination for a large number of drugs is

(a) First order

(b) First order followed by zero order

(c) Zero order followed by first order

(d) Zero erder

4) What is the best criterion for judging the therapeutic superiority of a drug over its congeners?

(a) Potency

(b) Wide range of activity

@ Efficacy

(d) Variability

5) Which of the following therapeutic systems provides continuous, unattended, controlled drug input for a long period without gastrointestinal or hepatic drug inactivation prior to systemic circulation?

(C) Transdermal

6) The following are excreted faster in acidic

Weak acids a.

b. Strong acids

0 Weak Bases

Strong Bases

None of the above

7) An intravenous bolus dose of thiopental usually leads to loss of consciousness within 10-15 sec. If no further drugs are administered, the patient will regain consciousness in just a few minutes. This is because thiopental is

A good substrate for renal tubular secretion

Exhaled rapidly

Rapidly metabolized by hepatic enzymes

Redistributed from brain to other body tissues

Secreted in the bile

8) Following compartment constitutes the largest

(Intracellular fluid

(e) Bones

9) With regard to clinical trials of new drugs, which of the following is most correct?

(a) Phase I involves the study of a small number of normal volunteers by highly trained clinical pharmacologist

(b) Phase II involves the use of the new drug in a large number of patients (100-5000) who have the disease to be treated

(c) Phase III involves the determination of the drug's therapeutic index by the cautious induction of

(d) Phase V is the most important

(e) Phase II requires the use of a positive control(a known effective drug) and a placebo

10) The earliest evidence that a drug is stored in tissues is

(a) An increase in plasma protein binding

(VD) A large apparent volume of distribution (VD)

(c) A decrease in the rate of formation of metabolites by the liver

(d) An increase in the number of side effects produced by the drug

(e) A decrease in the amount of free drug excreted in the urine

11) Jasim is a 55 KG, 38-year-old male smoker with acute exacerbation of COPD who is started on theophylline in the ward. A loading dose of 300 mg is administered over 30 minutes. Blood samples obtained 3 hours and 6 hours after the loading dose revealed serum concentrations of 12.0 mg/L and 8.1 mg/L, respectively. The elimination half-life of theophylline in this patient

(b) 5.33 hours

3.50 hours

6.00 hours

8.03 hours

12) All the following statements are true except:

Acidic drugs generally bind to plasma albumin

Basic drugs preferentially bind to alpha-1 acidic glycoprotein

Plasma protein binding(PPB) is a reversible

Binding sites on plasma proteins are non-

Drugs bound to PPB sites have faster effects at target organs

13) Excipients are

(a) Pharmacologically inert substances

(b) Used to mask an unpleasant taste

(c) Used to increase solubility or stability to the agent

(d) Employed to add bulk to the active agent used in small quantities

(e) All the above

14) Phocomelia is a known teratogenic effect of

(a) Anticancer drugs

(b) Antiviral drugs

(c) Antiepileptic drugs

(d) Thalidomide

(e) Methyl Dopa

15) For the drugs which follow first order kinetics, after 4 half life the elimination will be approximately

(a) 40%

(b) 94%

(c) 25%

16)One mechanism for the tolerance produced by repeated drug administration is a



