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DEPARTMENT: MLT 2<sup>ND</sup>

SECTION: B

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Q1: select and highlight appropriate options for the given question.

1: A drug x is a large protein molecule , its action on cholinergic transmission depends on an intracellular action Within nerve endings which one of the following processes is best suited for permeation of very large protein molecules into cell?

B= endocytosis

2:which of the following cytochrome isoforms is responsible for metabolizing the largest number of drugs?

E= CYP3A4

3: Drug metabolism in humans usually in a product that is .

A=less lipid soluble than the original drug

4: all the statements are correct, except.

A= PK determines the beginning extent and strength of a drugs effect

5: By considering the properties passive diffusion which one is not correct.

D= No specific drug structure is necessary.

6: A patient is administered with drug A started toxic reaction but that drug slowly metabolism by enzymes, what should be administered to reduce the toxicity.

C= grapefruit juice.

7: in Enter hepatic circulation reactivated metabolites after metabolism belong to .

C= both phases.

8: Drugs can be effectively distributed to an organ when it have properties like .

E= All of the above

9: A patient has some hypersensitivity to the drug A , for avoiding any adverse reaction he administered drug is with some desired properties both of all drugs are.....

B= therapeutic equivalent

10: there are two dosage forms of some therapeutic class of drug , one is simple tablet and other is enteric , the later one will affect the drug.

D= all of the above

11: alternation in biological function is always secondary step to. ....

D= the above statement is incorrect

12: which of the following statement is not true.

A = mechanism of drug action always depends on its selectivity

13: which of the following is linked directly/ indirectly to the flow of ions across cell membrane.

E= both B and D

14 : signal to the skeletal muscles are controlled by.

C= nicotinic receptors

15: which receptor require preliminary formation of ligand bonding that lead to moveable complex.

C= intracellular receptors

Q2. Select and highlight true/False for given statements

1: Clinical pharmacology includes the investigation, in terms of pharmacokinetic and pharmacodynamic parameters in various form of subjects (True/False).

Ans: true.

2: Drugs having lipophilicity with greater extend will circulate for long period of time inside the body, hence will have prolong half-life (True/False).

Ans.: True.

**3: In metabolism process, introducing the polar functional group into drug molecule may decrease its pharmacological activity (True/False).**

**Ans: true.**

**4: Despite of lipid solubility of ligand the slowest signal transmission and processing occur through intracellular receptors (True/False).**

**Ans: . True.**

**5: Drugs having limited aqueous solubility and poor membrane permeability are mostly preferred to be administered via intravascular route (True/False).**

**Ans: true.**

**6: Passive diffusion is the most common mechanism for drug absorption because of concentration gradient, no carrier transportation and saturability, along with appropriate drug structure (True/False).**

**Ans.: True.**

**7: It is not necessary that every drug will follow the same path for metabolism, it is only determined by the type of drug or chemical nature (True/False).**

**Ans: true.**

**8: After efficient metabolism, drugs can be equally eliminated from body through urine and feases (True/False).**

Ans: false..

**9: Bioavailability of a drug administered via oral route is the ratio of the AUC for oral administration compared with the AUC for IV injection (True/False).**

Ans: true.

**10: In every scenario and class of drug, when the plasma concentration is declined to half then its effect will also be demolished according to plasma concentration (True/False).**

Ans: true.

**11: Distribution of drug into body compartment is determined in terms of drug nature, molecular weight and plasma proteins binding (True/False).**

Ans.: True.

**12: All drugs that are used for treatment of any type of disease do not impart new function to our body (True/False).**

Ans : true.

**13: In case of transporters, substrate can be facilitated across cell membrane in/against the direction of concentration gradient (True/False).**

Ans.: True.

**14: As compared to other receptors, intracellular receptors take long for initiating its effect (True/False).**

**Ans: True.**

**15: Depending upon the nature of ligand, majority of drugs interact with receptors that are present across the cell membrane (True/False).**

**Ans: true..**