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* Blood brain barrier and Blood-CSF barrier.
* I. Synthesis of the neurotransmitter,

II. Storage of the neurotransmitter in storage granules or vesicles in the axon terminal.

III. Calcium enters the axon terminal during an action potential, causing release of the neurotransmitter into the synaptic cleft.

IV. After its release, the transmitter binds to and activates a receptor in the postsynaptic membrane.

V. Deactivation of the neurotransmitter.

3) I. Nicotinic ACH receptor(nAchR)

II.

4) Glycine and GABA(y-amino butyric acid) opens K+ and Cl- channels resulting in pre or post synaptic target hyperpolarization.

5) Acetylcholine

6) Dopamine

7) Epinephrine(EPI) and Norepinephrine(NE)

8) Parkinson's disease

9) Sedative and Hypnotic

10) I. Amnesic-promotes forgetfulness.

II. Anxiolytic- anti-anxiety

III. Sedation- calming effect

IV. Hypnotic- sleep inducing

V. Anti-convulsant

VI. Skeletal muscle relaxation

11) Depression is caused by a functional deficit of the monoamine transmitters, nor adrenaline and 5-hydroxytryptamine(5-HT) at certain sites in the brain, while mania results from a functional excess.

12) A. Transmitter-specific action. T

B. Neuron-specific action. T

C. Signal-specific action. T

D. All of the above. T

13) A. Selective serotonin reuptake inhibitors.....T

B. Serotonin-noradrenaline reuptake inhibitors....T

C. NMDA receptor antagonists.....F

D. Calcium channel blockers.....F

14) A. Tricyclic antidepressant e.g. amitriptyline.....T

B. Irreversible monoamine oxidase inhibitor e.g. mianserin....F

C. Monoamine receptor antagonist e.g. phenelzine...T

D. Tricyclic antidepressant e.g. Imipramine....T

15) A. Brain capillaries have tight junctions while peripheral capillaries have generated junctions.

B. Brain capillaries have fenestrated junctions while peripheral capillaries have right junctions....F

C. Brain capillaries have fewer mitochondria than peripheral capillaries.....F

D. Brain capillaries have more mitochondria than peripheral capillaries....T