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Competitive Exams: Medical Science MCQs (Practice_Test 135 of 135)

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1. The symptoms of Parkinsons disease are caused by the lesion of connections of basal ganglia at the site between
 - a. Cerebral cortex and caudate nucleus
 - b. Putamen and substantia nigra
 - c. Thalamus and cerebral cortex
 - d. Caudate nucleus and globus pallidus
2. Fructose, the major energy source for spermatozoa in seminal fluid, is formed by
 - a. dephosphorylation of fructose-1-phosphate
 - b. reduction of D-glucose to sorbitol and oxidation of sorbitol to D-fructose
 - c. isomerization of glucose-6-phosphate to fructose-6-phosphate and dephosphorylation of fructose-6-phosphate
 - d. dephosphorylation of fructose-6-phosphate.
3. Which of the following are associated with papillary muscles of the heart?
 - a. Helping the a-v valves to close
 - b. Preventing excessive bulging of a-v valves into atria.
 - c. U wave of the ECG.
 - d. Helping the a-v valves to open.

Select the correct answer using the codes given below:

- a. 2 and 4
- b. 3 and 4
- c. 1 and 3

d. 1 and 2

4. Consider the following statements: Flare in Triple response can appear

- a. with intact nerves.
- b. after the division but before the degeneration of nerves.
- c. after the division and degeneration of nerves.

Which of the statements is/are correct?

- a. 1 and 2
- b. 3 alone
- c. 2 alone
- d. 1 and 3

5. Consider the following statements: Voluntary control of respiration is

- a. under the control of cerebral cortex.
- b. mediated by hypothalamus.
- c. the cause of exercise hyperventilation.
- d. not influenced by medullary rhythmicity area.

Which of the statements are correct?

- a. 1 and 4
- b. 1 and 2
- c. 1,2 and 3
- d. 2,3 and 4

6. The given figure variation of plasma level with urinary excretion. Based on this, the transport maximum for glucose (T_{mG}) will be

- a. 200 mg/min
- b. 300 mg/min
- c. 350 mg/min
- d. 375 mg/min

7. Which one of the following mechanisms is not involved in the regulation of blood pH by the kidneys?

- a. Reabsorption of HCO₃ by renal tubular cells
- b. Formation of ammonia and its elimination as NH₄⁺ ion in the urine

- c. Transport of reduced haemoglobin to kidney to liberate the acid ion
 - d. Formation of Na_2HPO_4 and its elimination through the urine
8. Lipase present in the stomach does not play a significant role in the digestion of dietary lipids because of
- a. Antilipase factors in gastric juice
 - b. Intrinsic factor in gastric juice
 - c. Mucous secretions
 - d. Acidity of gastric juice
9. Congenital abetalipoproteinemia is due to decreased synthesis of
- a. Apolipoprotein B – 48 in the intestinal mucosal cells
 - b. Apolipoprotein B – 100 in the intestinal mucosal cells
 - c. Apolipoprotein a-II the intestinal mucosal cells
 - d. Apolipoprotein C-II in the liver
10. The rate limiting step in glycolytic process is
- a. Glucose to glucose-6-phosphate
 - b. Fructose-6-phosphate to fructose-1,6-diphosphate
 - c. pyruvate to lactate
 - d. phosphoenolpyruvate to pyruvate
11. Muscle glycogen cannot contribute directly to blood glucose level because
- a. muscle glycogen cannot be converted into glucose-6-phosphate
 - b. muscle lacks phosphoglucoisomerase
 - c. muscle does not contain glucokinase
 - d. muscle lacks glucose-6-phosphatase
12. Genetic information originates from
- a. cistrons of DNA
 - b. anticodons of tRNA
 - c. histones of nucleoproteins
 - d. codons of mRNA
13. What is the function of the acceptor arm of tRNA molecules?
- a. It binds with specific amino acids to form aminoacyl tRNA

- b. It helps in the recognition of the codon of mRNA
 - c. It helps in the transfer of mRNA from the nucleus to the cytoplasm
 - d. It binds with the initiation factors to form the initiation complex during protein synthesis
14. The codons code for the same amino acid in all organisms. Therefore they are
- a. non overlapping
 - b. degenerate
 - c. universal
 - d. unambiguous
15. Which one of the following sub-units of a ribosome binds to the mRNA to initiate protein synthesis?
- a. 60 S
 - b. 60 S GTP complex
 - c. 40 S
 - d. 40 S ATP complex