

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES**WARANGAL, TELANGANA STATE – 506 007****1st M.B.B.S. (NEW REGULATION) DEGREE EXAMINATION: MARCH/APRIL 2021**
PHYSIOLOGY PAPER – II**Time:** 3 Hours**Max Marks:** 100**Note:** Answer all questions. Give Diagrammatic representation wherever necessary.

Write essay on the following: (2X15=30)

1. An elderly male came to OPD with a history of tremors at rest. On examination, he had cogwheel rigidity, difficulty in walking.
 - a) What is the most probable diagnosis?
 - b) Which structure of the brain is affected in this condition? What are its components and connections?
 - c) Explain the pathophysiology of this disease condition and its treatment.
 2. A 50 year old female came to a physician with a history of swelling of the face, purple marks on the abdomen, and easy bruising. On taking history she revealed that she has bronchial asthma since 10 years and on bronchodilators and steroids since then.
 - a) What is the diagnosis?
 - b) The variation of which hormone leads to this condition?
 - c) Describe the Physiological actions of this hormone on various systems of our body.
 - d) What are the other clinical signs of this disease condition and reasons for it?
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Write short essay on the following: (8X5=40)

3. Differentiate between UMN and LMN lesion.
4. Describe the functions of the cerebellum.
5. Describe the physiological changes during pregnancy.
6. Explain the theories of colour vision. Mention different anomalies of colour vision.
7. Explain the regulation of blood glucose. Add a note on diabetes mellitus.
8. Describe the different properties of action potential.
9. Describe the endometrial changes during the menstrual cycle.
10. Physiological actions of growth hormone.

Write briefly on the following: (10X3=30)

11. Describe the errors of refraction and correction to it.
12. What are the boundaries to be set in a doctor-patient relationship.
13. Babinski's sign.
14. List the acute cardiorespiratory responses to whole-body isotonic exercise.
15. Terminal methods of contraception in both males and females.
16. Saltatory conduction.
17. What is a neuroendocrine reflex? Explain with an example.
18. List the factors affecting conduction velocity in a nerve fibre. Name the classification system based on it.
19. List 6 functions of the hypothalamus.
20. List the functions of the pineal gland.
