

Rajiv Gandhi University of Health Sciences

I Year B.N.Y.S Degree Examination – OCT-2019

Time: Three Hours

Max. Marks: 80 Marks

Physiology – Paper II (RS-3)

QP Code: 2528

(QP contains two pages)

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

Section - A

Multiple Choice Questions

10 X 1 = 10 Marks

- Milk ejection reflex is mediated by hormone
 - Oxytocin
 - Vasopressin
 - Prolactin
 - Oestrogen
- Total removal of thyroid gland in adults produces
 - Intolerance to cold
 - Mental retardation
 - Dwarfism
 - All of the above
- Appearance of breast bud is called
 - Pubarche
 - Menarche
 - Adrenarche
 - Thelarche
- Time of ovulation is usually
 - 12 days prior to menses
 - 14 days prior to menses
 - 16 days prior to menses
 - 18 days prior to menses
- Lower motor neuron lesion is characterized by all except
 - Usually a single muscle is involved
 - Flaccid paralysis
 - Muscle wasting is absent
 - Deep reflexes are absent
- Accidental removal of parathyroid glands during thyroid surgery will cause
 - Hypercalcemia
 - Hypothyroidism
 - Tetany
 - All of the above
- Neocerebellum is concerned with control of
 - Smooth and accurate voluntary movements
 - Trunk and limb muscles
 - Postural reflexes
 - Equilibrium
- Thalamus is a relay centre for all of the following sensations except
 - Smell
 - Proprioception
 - Pain
 - Temperature
- Hunger centre is located in which portion of hypothalamus
 - Dorsomedial nucleus
 - Ventromedial nucleus
 - Preoptic area
 - Lateral nucleus
- Structure not present in middle ear

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- a) Tympanic membrane
- b) Ossicles
- c) Eustachian tube
- d) Membranous labyrinth

Section B

LONG ESSAYS (Answer any two)

2 X 10 = 20 Marks

- 11. Trace the course of Pyramidal tract. Compare upper and lower motor neuron lesion.
- 12. Describe hormones of Neurohypophysis.
- 13. Describe mechanism of excitation-contraction coupling. Add a note on Sarcomere.

SHORT ESSAYS (Answer any ten)

10 X 5 = 50 Marks

- 14. Explain differences between REM sleep and non-REM sleep.
- 15. Describe theories of colour vision and colour blindness.
- 16. Describe mechanisms of blood glucose regulation. Add a note on oral Glucose tolerance test.
- 17. Describe female contraceptive methods.
- 18. Describe mechanisms of pain inhibition. Add a note on referred pain.
- 19. Describe types of nerve injury and changes of Wallerian Degeneration.
- 20. Explain refractive errors.
- 21. Describe neuroendocrine reflexes with examples.
- 22. Describe functions of hypothalamus.
- 23. What is Brown Sequard's syndrome?
- 24. Describe components, connections and functions of Neocerebellum.
- 25. Describe functions of middle ear.

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