Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - JUNE-2019 Max. Marks: 100 Marks

Time: Three Hours

Physiology – Paper I (RS2 & RS3) Q.P. CODE: 1077

Your answers should be specific to the questions asked Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

- 1. Define Cardiac outgut. Describe the various factors regulating cardiac output.
- 2. Describe the role of counter current mechanism in kidney function.

SHORT ESSAYS

10 x 5 = 50 Marks

- Micturition reflex
- 4. Functions of plasma proteins
- 5. Surfactant
- 6. Movements of small proteins intertine.
- Regulation of GFR
- 8. Deglutition
- Sodium potassium pump
- 10. Juxta medullary nephron
- 11. Rh factor and its importance
- J2. Periodic breathing

SHORT ANSWERS

14.

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- 13. Ventilation perfusion ratio
 -) Tubular maximum for Glucose (Tm G)
 - Anticoagulants
- 16. P-R interval
- 17. Functions of Gastrin
- 18. Heart sounds
- 19. Dietary fiber
- 20. Facilitated diffusion
- 24. Morphological classification of anemias
- 22. Gap junctions

10 x 3 = 30 Marks

Rajiv Gandhi University of Health Sciences, Karnataka First Phase MBBS Degree Examination – JUNE-2019

| Time: Three Hours Max. Marks: 10 | |
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| | Physiology-paper II (RS2 & RS3) QP Code: 1078 |
| | Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary |
| LONG ESSAYS 2 x 10 = 20 M | |
| 1, | Draw a neat labeled diagram of 'slow pain' pathway from right lower limb. Explain 'descending analgesia system' |
| 2. | Describe the physiological actions & regulation of secretion of cortisol. |
| SHO | RT ESSAYS 10 x 5 = 50 Mar |
| - Co- 27. | Give the principal connections & functions of Basal Ganglia. |
| 4. | Explain the role of 'cochlea' in 'pitch discrimination'. |
| <u> </u> | List the features of 'Brown Sequard syndrome' |
| 6. | Give the source, target organs and actions of 'calcitonin' |
| À. | Draw the pathway for 'direct light reflex' |
| . 8. | List the functions of thalamus. |
| , . | Enumerate the hormones of posterior pituitary and explain the actions of ANY one |
| 10. | With examples explain 'positive feedback' control of hormones. |
| 11. | Neural pathway & the physiological role of taste sensation. |
| 12. | Explain the mechanism of neuromuscular transmission. Add a note on neuromuscular blockers. |
| SHORT ANSWERS 10 x 3 = 30 Mar | |
| 13. 14. | Mention the part of retina with highest visual acuity and give reasons for the same. Indicators of ovulation |

15. List the functions of placenta.

16. Impedance matching by the middle ear.

17. Prolactin

18. Superfemale

19. Physiological mechanisms of heat gain

20. Explain the physiological basis of any ONE test to investigate the cause of infertility in a female 21/ Rigor mortis

22. Oligodendrocytes

 $2 \times 10 = 20$ Marks

- ower limb. Explain 'descending

Max. Marks: 100 Marks

$10 \ge 5 = 50$ Marks

10 x 3 = 30 Marks

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