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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Renal Dialysis Technology Degree Examination – Sep 2012

Time: Three Hours **Max. Marks: 80 Marks**

APPLIED ANATOMY AND APPLIED PHYSIOLOGY RELATED TO DIALYSIS TECHNOLOGY

(Revised Scheme)

Q.P. CODE: 2258

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

Both sections are to be answered in the same answer book

Section - A – APPLIED ANATOMY (40 Marks)

LONG ESSAYS (Answer any One) **1 x 20 = 20 Marks**

1. Draw and label a section of the kidney to show the gross features of cortex and medulla
2. Give the gross features of urinary bladder with its relations

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Microstructure of cortex of kidney
4. Differentiate between PCT and DCT
5. Juxta glomerular apparatus
6. Nephron
7. Bowman's capsule
8. Loop of Henle

Section – B – APPLIED PHYSIOLOGY (40 Marks)

LONG ESSAYS (Answer any One) **1 x 20 = 20 Marks**

9. Name the steps in the formation of urine. Explain in detail the counter current mechanism
10. Explain the renin – angiotensin aldosterone Axis. What factors cause this Axis to get activated

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

11. What is normal calcium level? Explain how calcium is measured in the renal tubules
12. Explain osmotic diuresis and pressure diuresis
13. Explain metabolic acidosis and metabolic alkalosis and give one example of each
14. Explain the functions of proximal conuvoluted tubule
15. Explain cystometrogram
16. Artificial kidney

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