Sl.No.M21170 Course Code: 3260201

VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM (Deemed to be University)

B.Sc. (RENAL DIALYSIS TECHNOLOGY) DEGREE EXAMINATION – March 2019 Second Year

APPLIED ANATOMY AND PHYSIOLOGY RELATED TO DIALYSIS TECHNOLOGY

Time: Three hours Maximum: 75 marks

I. Write an essay on any ONE of the following:

 $(1 \times 20 = 20)$

- 1. Describe the anatomy of the kidneys, ureters and urinary bladder. Discuss the mechanism of urine formation.
- 2. Discuss the various functions of the kidney and write about the renal function tests.

II. Write short essays on any TWO of the following:

 $(2 \times 10 = 20)$

- 3. Discuss the role of the kidneys in acid base homeostasis.
- 4. Describe the nerve supply of the bladder. Discuss the physiology of micturition.
- 5. Draw and label the parts of a kidney and explain the renal circulation in detail.
- 6. Describe the structural anatomy of femoral vein, internal jugular vein and subclavian vein.

III. Write short answers on any SEVEN of the following: $(7 \times 5 = 35)$

- 7. Body fluid compartments.
- 8. Potassium metabolism in the body.
- 9. Hormones of the kidney.
- 10. Glomerular Filtration Rate.
- 11. Renal phosphate handling.
- 12.Peritoneal membrane.
- 13. Anomalies of kidney.
- 14. Renal handling of calcium.
- 15. Juxtaglomerular apparatus.
- 16. Histology of kidney.