Sl.No.M21170 Course Code: 3260201

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

B.Sc. (RENAL DIALYSIS TECHNOLOGY) DEGREE EXAMINATION – August 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. Draw the structure of a kidney. Describe the various functions of the kidney?
- 2. Draw and label the various parts of a nephron. Discuss the role of the kidneys in acid base homeostasis.

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

 $(2 \times 10 = 20)$

- 3. Draw and describe the structure of urinary bladder, Juxtaglomerular apparatus and blood supply of the kidney?
- 4. Discuss in detail the role of the kidney in bone formation.
- 5. Discuss in detail the role of kidney in erythropoiesis.
- 6. Describe the structural 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. Calcium regulation in health and diseases.
- 8. Write a note on acidification and concentration.
- 9. Endocrine functions of the kidney.
- 10. Role of peritoneum in peritoneal dialysis.
- 11. Water metabolism.
- 12. Hyponatremia.
- 13. Types of bladder dysfunction.
- 14. Physiology of micturition.
- 15. Structure of the ureter.
- 16. Write a note on clearance studies.