Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Renal Dialysis Technology Degree Examination – MARCH 2018

Time: Three Hours Max. Marks: 80 Marks

Concept of Renal Diseases – (RS)

Q.P. CODE: 1247

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Elaborate Nephrotic and Nephritic syndrome
2. Explain the causes. Classification diagnosis and management urinary tract infection.
3. Discuss about pregnancy associated renal diseases.

SHORT ESSAYS (Answer any Six) 6 x 5 = 30 Marks

4. Causes of acute renal failure and classification.
5. Alport syndrome
6. Explain mineral bone diseases in chronic kidney diseases (CKD).
7. Tumours of kidney
8. Classification of chronic kidney diseases (CKD).
9. Clinical manifestations of chronic kidney diseases (CKD)
10. Nephrolithiasis
11. Anaemia management in CKD patients

SHORT ANSWERS (Answer any Ten) 10 x 3 = 30 Marks

12. HELLP syndrome
13. Causes of haematuria
14. Mention few food containing high oxalates which hyperoxaluric patients need to avoid.
15. Normal value of serum calcium, phosphorus and albumin
16. Diet in CKD stage three and stage four
17. Carpel tunnel syndrome
18. Classifications of blood pressure in adults.
19. Mention few commonly used antihypertensive drugs.
20. Microalbuminuria
21. Classification of proteinuria.
22. Renal osteodystrophy
23. Pre Eclampsia

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II Year B.Sc. Renal Dialysis Technology Degree Examination – MARCH 2018

Time: 3 Hours Max. Marks: 40 Marks

Applied Anatomy

Q.P. Code : 1249

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

(Note : Both QP Codes 1249 and 1250 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Describe the gross anatomy of prostate and add a note on its applied aspects.
2. Describe development of kidney and add note on congenital anomalies.

SHORT ESSAYS (Answer any Three) 3 x 5 = 15 Marks

3. Interior of the urinary bladder
4. Constrictions of ureter
5. Female urethra
6. Renal angle and its clinical importance

SHORT ANSWERS (Answer any Five) 5 x 3 = 15 Marks

7. Draw a neat, labelled microstructure of Urinary bladder.
8. Renal artery angiography
9. Femoral hernia
10. Epiploic foramen
11. Median cubital vein
12. Name the branches of external carotid artery.

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II Year B.Sc. Renal Dialysis Technology Degree Examination – MARCH 2018

Time: 3 Hours Max. Marks: 40 Marks

Physiology

Q.P. Code : 1250

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 1249 and 1250 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Describe the reabsorption of sodium in the renal tubules with labelled diagrams.
2. Describe the role of kidney in the long term regulation of blood pressure.

SHORT ESSAYS (Answer any Three) 3 x 5 = 15 Marks

3. Explain counter current multiplier mechanism.
4. Describe the role of kidney in calcium metabolism.
5. Define renal clearance. Give the normal value of inulin clearance and PAH clearance. What do they indicate?
6. Describe fibrinolytic system.

SHORT ANSWERS (Answer any Five) 5 x 3 = 15 Marks

7. Draw a neat labelled diagram of a nephron.
8. What is automatic bladder?
9. Draw a neat labelled diagram of cystometrogram.
10. Name the types of water reabsorption by renal tubules and where do they take place?
11. What is diabetes insipidus?
12. Give the source and action of erythropoietin.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (Renal Dialysis Technology) Degree Examination – MARCH-2018

Time: 3 Hours Max. Marks: 50 Marks

Applied Pathology

Q.P. Code: 1351

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

(Note: Both QP Codes 1351 and 1352 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Discuss the causes and predisposing factors of urinary tract infections. Discuss the pathology of chronic pyelonephritis.
2. Discuss the causes, pathogenesis and laboratory diagnosis of acute glomerulonephritis.

SHORT ESSAYS (Answer any Five) 5 x 5 = 25 Marks

3. Congenital anomalies of urinary system
4. Causes of chronic renal failure
5. Tubulointerstitial diseases of kidney
6. Causes and types of peritonitis
7. Pathology of kidney in diabetes mellitus
8. Dialysis induced changes in kidney

SHORT ANSWERS (Answer any Five) 5 x 3 = 15 Marks

9. Types of renal calculi
10. Causes of granular contracted kidney
11. Urinary findings in tuberculous pyelonephritis
12. Causes of Hydronephrosis
13. List the renal changes associated with hypertension.
14. Three causes of acute renal failure

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (Renal Dialysis Technology) Degree Examination – MARCH-2018

Time: 3 Hours Max. Marks: 50 Marks

Microbiology

Q.P. Code: 1352

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

(Note: Both QP Codes 1351 and 1352 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Explain fungus causing Opportunistic infection.
2. Enumerate the Hepatotropic viruses. Explain in detail about the morphology, mode of transmission and lab diagnosis of Hepatitis B virus.

SHORT ESSAYS (Answer any Five) 5 x 5 = 25 Marks

3. Acid fast staining
4. Laboratory diagnosis of HIV virus
5. Subclavian catheter infections
6. Hepatitis C virus
7. Hand wash technique
8. Hepatitis vaccines

SHORT ANSWERS (Answer any Five) 5 x 3 = 15 Marks

9. Name three causative agent of UTI.
10. Name three opportunistic infections in AIDS patients.
11. Name any three culture methods.
12. Name three universal precautions
13. Name three personnel protective equipments.
14. Culture media used for M. tuberculosis

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