3-12-2013

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Second Year (Semester-IV)

December 2013 Examination

B.Sc. Operation Theater Technology (OTT)

Time: 3 Hrs.

Paper - I

Max. Marks : 100]

Applied Pathology & Microbiology

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

(Use separate answer booklet for Section A & B)

Section - A

Applied Pathology (50 Marks)

Q.P Code: AHS-114

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$

- 1. Define Hypertension. Write the Clinical classification and describe its etiopathogenesis
- 2. Define Ischemic heart disease. Describe its pathophysiology and complications

SHORT ESSAY (Answer any three)

 $3 \times 5 = 15 \text{ Marks}$

- 3. Obstructive uropathy
- 4. Complications of aneurysms
- 5. Describe the pathophysiology of heart failure
- 6. Enumerate the risk factors for atherosclerosis
- 7. Lab diagnosis of acute renal failure

SHORT ANSWERS (Answer any five)

 $5 \times 3 = 15 \text{ Marks}$

- 8. Types of cardiomyopathy
- 9. Lab diagnosis of chronic heart failure
- 10 Ventricular Septal Defect
- 11. Benign Nephrosclerosis
- 12. Loeffler's endocarditis
- 13 Renal stones types
- 14. Mention three complications of artificial valves

Section - B

Applied Microbiology (50 Marks)

Q.P Code: AHS-115

(Use separate answer booklet for Section-B)

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$

- 1. What is Microbiological surveillance? Discuss in brief sampling methods applied in an outbreak of MRSA in a hospital ward.
- 2. What are blood borne infections? Write in short its prevention.

SHORT ESSAY (Answer any three)

 $3 \times 5 = 15 \text{ Marks}$

- 3. Disinfection of operation theatre.
- 4. HAI
- 5. Diseases to spread by oro faecal roote.
- 6. Mycobacterium tuberculosis-lab diagnosis.
- 7. Discuss sample collection methods.

SHORT ANSWERS (Answer any five)

 $5 \times 3 = 15 \text{ Marks}$

- 8. Hepatitis B vaccination.
- 9. Vibrio cholera.
- 10 Polio vaccine.
- 11. Post exposure prophylaxis of HIV.
- 12. Use of sodium hypo chloride
- 13 Difference between hepatitis A and B
- 14. Montoux test.

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Time: 3 Hrs.

Paper – II

Max. Marks : 100]

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Introduction to OT Technology O.P Code: AHS-116

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$

- 1. Describe the different positions used during surgery with examples. How do you position a patient in lithotomy and what are the complications of this position.
- 2. Describe the various patient parameters monitored during a laparotomy done under general anaesthesia.

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

- 3. What instruction and equipment would you keep ready for arrest of haemorrhage from an open wound?
- 4. What are the complications of blood transfusion?
- 5. Describe the operation theatre waste is segregated?
- 6. What are the different surgical procedures done as day care?
- 7. Enumerate the pre-operative check list done before the surgical procedure.
- 8. What is manifold room? What types of cylinders are maintained in manifold room?
- 9. What is soda lime? Describe the advantages of using soda lime?
- 10. What are the advantages of Bain's circuit?
- 11. What is vaporizer? What are the safety features of vaporizers?
- 12. Describe the instrument planning for a case of emergency laparotomy?
- 13. How do you clean and sterilize sharp surgical instruments
- 14. What are the essential items which have to be kept in the operation theatre stores?

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

- 15. What is pulse oximetry? How is it useful?
- 16. How do you take care of microsurgical and titanium instruments?
- 17. Uses and maintenance of lead apron.
- 18. What are needle stick injuries?
- 19. Indenting for the operation theatre stores.
- 20. Colour coding of gas pipe lines.
- 21. What is consent for surgery?
- 22. What is Bodock's seal? describe it.
- 23. What are the essential details which have to be checked before blood transfusion?
- 24. Enumerate the surgical procedures done in the lateral position.
- 25. What precautions should be taken when applying cautery pads?
- 26. Patient record keeping in the operation theatre.

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B.Sc. Operation Theater Technology (OTT)

Time: 3 Hrs.

Paper – III Pharmacology Q.P Code : AHS-117

Max. Marks: 80]

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$

- 1. Classify drugs used in Peptic Ulcer. Explain the Mechanism of action, uses and adverse effects of H₂ receptor antagonists.
- 2. Classify oral antidiabetic drugs. Explain the mechanism of action, and adverse effects of sulfonylureas.

SHORT ESSAY (Answer any Six)

6X5 = 30 Marks

- 3. Explain mechanism of action, uses and adverse effects of Pethidine.
- 4. Explain mechanism of action, uses and adverse effects of aspirin
- 5. Explain mechanism of action and uses of diazepam
- 6. List the bronchodilators and write their mechanism of action and uses
- 7. List second generation antihistamines and write their mechanism of action and uses
- 8. List the prokinetic agents and explain their mechanism of action with uses .
- 9. List the advantages and disadvantages of nitrous oxide
- 10. Mention five antimicrobial combinations with one clinical use for each

SHORT ANSWERS (Answer any Ten)

 $10 \times 3 = 30 \text{ Marks}$

- 11. Define Chemoprophylaxis and give two examples.
- 12. List three intravenous anaesthetic agents.
- 13. Three indications for ringer lactate
- 14. Oxidizing agents
- 15. List three clinical uses of metronidazole
- 16. List three adverse effects of tobramycin
- 17. Explain mechanism of action and one use of ceftriaxone
- 18. Benzathaine penicillin
- 19. Hyoscine
- 20. List three uses and adverse effects of prednisolone
- 21. Flumazenil
- 22. List three beta lactamase inhibitors

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Time: 3 Hrs.

Paper - IV

Max. Marks: 80]

Medicine Relevant to OT Technology

Q.P Code: AHS-118

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

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$

- 1. Define and classify shock. How do you manage anaphylactic shock?
- 2. Discuss the composition of extracellular and intracellular fluids. How does the body maintain sodium balance?

SHORT ESSAY (Answer any Six)

6X5 = 30 Marks

- 3. What is Ringer's lactate? What is its composition?
- 4. What is the etiopathogenesis of chronic renal failure?
- 5. How do you arrange the anaesthesia table for a 3 years old child coming for inguinal hernia repair surgery?
- 6. Describe chest compressions during resuscitation of a newborn?
- 7. What is epilepsy? classify it
- 8. What is hydroxyethyl starch? Enumerate the indications for its usage
- 9. How do you manage hemorrhagic shock
- 10. Mention briefly the management of a patient with cerebrovascular accident

SHORT ANSWERS (Answer any Ten)

 $10 \times 3 = 30 \text{ Marks}$

- 11. What is furosemide? What is it used for?
- 12. Hydrocortisone hemisuccinate
- 13. Phenobarbitone
- 14. Dopamine
- 15. What are the uses of normal saline?
- 16. What are the parts of the Ambu bag
- 17. What are the parts of a laryngoscope?
- 18. What are different airway equipment required for anaesthetizing an infant coming for circumcision?
- 19. What is haemodialysis
- 20. What is hyperkalemia? What are its complications?
- 21. What are common causes for septic shock
- 22. Dextran 40