

Question Paper

Exam Date & Time: 03-Jun-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. (RRT & DT/RT/EMT/HIM/MIT/BOATT/CND/PHYSICIAN ASSISTANT) DEGREE EXAMINATION -
MAY/JUNE 2024

SUBJECT: GPY2201 - GENERAL PSYCHOLOGY
(2020/2022 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- | | | |
|-----|--|------|
| 1) | Define Psychology. Summarize the schools of Psychology | (10) |
| 2) | Explain the different theories of Forgetting | (10) |
| 3A) | Personality Assessment | (5) |
| 3B) | Maslow's theory of motivation | (5) |
| 3C) | Schedules of reinforcement | (5) |
| 3D) | Types of Perceptual constancy | (5) |
| 4A) | Independent variable | (2) |
| 4B) | Negative emotions | (2) |
| 4C) | Chunking | (2) |
| 4D) | Algorithm | (2) |
| 4E) | Two factor theory of intelligence | (2) |

-----End-----

Question Paper

Exam Date & Time: 31-May-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. MIT / BOT / RRT & DT / PFT / CVT / BAOTT / EMT DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: PHC2203 - PHARMACOLOGY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Describe the terms "Generic name of a drug", "Dependence" and "Competitive antagonist" with suitable examples. List two advantages and two disadvantages of sublingual route of drug administration. Define bioavailability and plasma half-life. (10)
- 2) i) List three cholinergic receptors and mention one action mediated through each of them. Mention two uses and two adverse effects of atropine. (10)
ii) Explain any two pharmacological actions of morphine and list its two uses and two contraindications.

3. Short notes:

- 3A) List three classes of drugs with an example for each used in peptic ulcer. Explain the mechanism of action of any one class. (5)
- 3B) List two drugs used in chronic gout and explain the mechanism of action of any one of them. List two each local anaesthetics and peripherally acting skeletal muscle relaxants. (5)
- 3C) Explain the mechanism of action of loop diuretics and list their two adverse effects. List two classes of drugs with an example for each used in angina. (5)
- 3D) Define antitussives with an example. List two inhaled glucocorticoids and explain their antiasthmatic action. (5)

4. Very short answers:

- 4A) Mention two examples and two uses of anticoagulants. (2)
- 4B) List two drugs each used to treat malaria and cancer. (2)
- 4C) List two oral antidiabetic drugs and two antithyroid drugs. (2)
- 4D) List two first-line antitubercular drugs and mention one adverse effect of each of them. (2)
- 4E) Mention two differences between aspirin and paracetamol. (2)

-----End-----

Question Paper

Exam Date & Time: 29-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. RRT & DT DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: RRT2201 - DIALYSIS TECHNOLOGY- II
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain pre-treatment filters used in hemodialysis water treatment plant. (20)
- 2) List the indications for peritoneal equilibration test. Outline the types of PET. (20)
- 3) Explain the complications of temporary hemodialysis vascular access. (10)
- 4) List the technical complications of hemodialysis and explain the prevention and management of any two complications. (10)
- 5A) Outline 'rule of 6' and arterio-venous fistula maturation. (5)
- 5B) List the ideal features of vascular access used in hemodialysis. (5)
- 5C) What are the functions of UV rays and endotoxin filters used in hemodialysis water treatment plant? (5)
- 5D) Outline the design of dialyzer reprocessing area design. (5)
- 5E) Explain the causes and management of high venous pressure. (5)
- 5F) List the advantages of using icodextrin and amino acid based osmotic agents in peritoneal dialysis. (5)
- 6A) List the types of anastomosis used to create permanent vascular access for hemodialysis. (2)
- 6B) Why carbon filter is required in hemodialysis water treatment plant? (2)
- 6C) Define disinfectants used in hemodialysis reprocessing. (2)
- 6D) List any two causes for high TMP. (2)
- 6E) What is catheter break-in period in peritoneal dialysis? (2)

-----End-----

Question Paper

Exam Date & Time: 05-Jun-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. RRT & DT DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: RRT2241 - PROGRAM ELECTIVE - I : PEDIATRIC DIALYSIS
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- | | | |
|-----|---|------|
| 1) | Outline the common complications of hemodialysis in pediatrics. List any four advantages of pediatric hemodialysis. | (10) |
| 2) | List the PD catheter types for pediatric peritoneal dialysis. Explain pre & post-care of peritoneal dialysis catheter implantation in pediatrics. | (10) |
| 3A) | List the types of HD dialysate used in pediatrics. Write the advantages and disadvantages of each type of dialysate in pediatrics. | (5) |
| 3B) | Explain the selection of components in pediatric hemodialysis prescription based on individual patient characteristics. | (5) |
| 3C) | List the specific prescription components of pediatric peritoneal dialysis. | (5) |
| 3D) | List the advantages and disadvantages of pediatric peritoneal dialysis. | (5) |
| 4A) | List the clinical applications of pediatric hemodialysis. | (2) |
| 4B) | What are the factors affecting dialyzer selection in children? | (2) |
| 4C) | List the goal of patient and family education in pediatric dialysis patients. | (2) |
| 4D) | What are the dietary measures to improve the chronic complications in pediatric dialysis patients? | (2) |
| 4E) | List the importance of family training in pediatric dialysis. | (2) |

-----End-----

Question Paper

Exam Date & Time: 05-Jun-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. RRT & DT DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: RRT2242 - PROGRAM ELECTIVE - I : HOME DIALYSIS
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- | | | |
|-----|---|------|
| 1) | Outline the indications and contraindications for home hemodialysis. | (10) |
| 2) | Explain the clearance and ultrafiltration in home hemodialysis. | (10) |
| 3A) | List the criteria to set up a hemodialysis water treatment plant at home and to maintain water quality. | (5) |
| 3B) | Explain the criteria for selecting a hemodialysis machine for home hemodialysis. | (5) |
| 3C) | Outline the handling and care of peritoneal dialysis catheter. | (5) |
| 3D) | Compare the safety of patients in home hemodialysis and peritoneal dialysis. | (5) |
| 4A) | What is home dialysis? | (2) |
| 4B) | Outline the barriers for self cannulation in home hemodialysis. | (2) |
| 4C) | What are the advantages of frequent home hemodialysis? | (2) |
| 4D) | List any two complications of home peritoneal dialysis. | (2) |
| 4E) | Why documentation is important in home dialysis? | (2) |

-----End-----