

# 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)  |

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# Question Paper

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



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. MIT DEGREE EXAMINATION - MAY/JUNE 2024  
SUBJECT: MIT2201 - RADIATION SAFETY IN RADIO DIAGNOSIS  
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- |     |  |      |
|-----|--|------|
| 1)  | Discuss the cardinal principles of radiation protection in details. Explain the methods to reduce the radiation dose in fluoroscopy. | (20) |
| 2)  | Explain in detail acute radiation syndrome.  | (20) |
| 3)  | Explain in detail about area monitoring devices.   | (10) |
| 4)  | Outline the design and working principle of film badge in detail.  | (10) |
| 5A) | Explain occupancy factor and use factor.   | (5)  |
| 5B) | Explain in detail about filters used in radiography.   | (5)  |
| 5C) | Compare deterministic and stochastic effects of radiation.   | (5)  |
| 5D) | Illustrate primary and secondary barriers.   | (5)  |
| 5E) | Discuss in detail the radiation precaution measures taken for female patients.   | (5)  |
| 5F) | Explain the technical protective considerations in general radiography.  | (5)  |
| 6A) | Define prenatal effects of radiation.  | (2)  |
| 6B) | Define radiation weighting factor.   | (2)  |
| 6C) | Define MPD and state the whole-body dose for occupational worker and public.   | (2)  |
| 6D) | Define DLP.  | (2)  |
| 6E) | List the natural and artificial sources of radiation.  | (2)  |

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# 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)

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# Question Paper

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



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. MIT DEGREE EXAMINATION - MAY/JUNE 2024  
SUBJECT: MIT2241 - PROGRAM ELECTIVE - I : ADVANCED IMAGE GUIDED PROCEDURES  
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- |     |  |      |
|-----|--|------|
| 1)  | Discuss in detail the radiological procedure of Angioplasty                          | (10) |
| 2)  | Explain in detail about the radiological procedure of Vertebroplasty and Kyphoplasty | (10) |
| 3A) | Define embolization. Add a note on types and classification of the embolic agent     | (5)  |
| 3B) | Explain in detail about the radiological procedure of T-tube cholangiography         | (5)  |
| 3C) | List the patient preparation and equipment used for TIPS                             | (5)  |
| 3D) | Explain in detail about the radiological procedure of TACE                           | (5)  |
| 4A) | List the complication and after care for IVC filter placement                        | (2)  |
| 4B) | Recall the anatomy related to PTC.   | (2)  |
| 4C) | List the equipment used and patient preparation for nerve block procedure            | (2)  |
| 4D) | List the indication and contraindication of lower limb angiography                   | (2)  |
| 4E) | List the equipment used and patient preparation for PTBD                             | (2)  |

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