

# Question Paper

Exam Date & Time: 08-Jun-2019 (02:00 PM - 04:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - MAY/JUNE 2019  
SUBJECT: BRES 204 - RESPIRATORY CARE PHARMACOLOGY  
(2016 SCHEME)  
Saturday, June 08, 2019 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

### Long Answers

- 1) Classification of drugs used in the treatment of arrhythmias. (10)
- 2) What is Hypertensive Crisis? What are the drugs used in the treatment of Hypertension? (2+8 = 10 marks) (10)

### 3) Short Notes :

- 3A) With the help of a diagram explain the electrolyte filtration and reabsorption in Kidney. (2+3 = 5 marks) (5)
- 3B) Describe the routes of opioid administration. (5)
- 3C) Discuss the effect of neuromuscular blocking agents and Mechanical ventilation. (5)
- 3D) Write the mechanism of action of inhaled nitric oxide therapy. (5)

### 4) Very Short Notes:

- 4A) List any four complications of diuretic therapy. (2)
- 4B) Therapeutic effects of Racemic Epinephrine (2)
- 4C) What are the sources of drug? (2)
- 4D) List the routes of drug administration. (2)
- 4E) Define pharmacokinetic phase. (2)

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# Question Paper

Exam Date & Time: 28-May-2019 (02:00 PM - 04:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT/ B.Sc. C.V.T./ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. RRT&DT / BOPT / B.O.T./ B.Sc. P.F.T. DEGREE  
EXAMINATION - MAY/JUNE 2019  
SUBJECT : PHARMACOLOGY (PHAR 202)  
(2016 SCHEME)  
Tuesday, May 28, 2019 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1A) List two classes of skeletal muscle relaxants with an example for each. (2)
- 1B) List two opioids and mention their two uses. (2)
- 1C) List two inhalational and two intravenous general anesthetics. (2)
- 1D) List two uses and two adverse effects of corticosteroids. (2)
- 1E) List two oral antidiabetic drugs and mention two adverse effects of insulin. (2)
- 2A) List four anti-tubercular drugs. (2)
- 2B) **Define the following with one example:** (8)  
i) Teratogenicity  
ii) Local anesthetics  
iii) Chemoprophylaxis  
iv) First pass metabolism
- 3A) Explain the mechanism of action of paracetamol and list its two uses. Mention two differences between aspirin and paracetamol. (5)
- 3B) List three classes of drugs with an example for each used in peptic ulcer. Explain the mechanism of action of any one class. (5)
- 3C) List two advantages and two disadvantages each of sublingual and intravenous routes of drug administration. Mention one drug each administered by sublingual and intravenous routes. (5)
- 3D) Mention two anticoagulants and explain the mechanism of action of any one of them. List two uses and two adverse effects of anticoagulants. (5)
- 4) **Give two examples and two uses for the following class of drugs:**
- 4A) Beta blockers (2)
- 4B) Antihistaminics (2)
- 4C) Beta lactam antibiotics (2)
- 4D) Benzodiazepines (2)
- 4E) ACE inhibitors (2)

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# Question Paper

Exam Date & Time: 31-May-2019 (02:00 PM - 04:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. C.V.T./ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. RRT&DT / BOPT / B.O.T. / B.Sc. H.I.M. / B.Sc. E.S.S.  
AND SECOND SEMESTER B.Sc. M.R.T. DEGREE EXAMINATION - MAY/JUNE 2019  
SUBJECT : GENERAL PSYCHOLOGY/ PSYCHOLOGY (PSYC 202)  
(2016/2016 RV SCHEME)  
Friday, May 31, 2019 (14.00 - 16.00)

Answer ALL questions.

Marks: 50

Duration: 120 mins.

Write essays on:

- 1) Explain Classical conditioning along with its applications. (10)
- 2) Elaborate on any two theories of motivation. (10)

3) Write short notes on:

- 3A) Perceptual organization (5)
- 3B) Heuristics (5)
- 3C) Defence mechanisms (5)
- 3D) Types of conflicts (5)

4) Write very short answers on:

- 4A) Introspection (2)
- 4B) Shaping (2)
- 4C) Frustration (2)
- 4D) IQ (2)
- 4E) Fine motor skills (2)

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# Question Paper

Exam Date & Time: 04-Jun-2019 (02:00 PM - 04:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. R.T./ BOPT / B.Sc. N.M.T. DEGREE EXAMINATION - MAY/JUNE 2019  
SUBJECT : BIOSTATISTICS/ RESEARCH METHODOLOGY & BIOSTATISTICS/ BIOSTATISTICS & RESEARCH  
METHODOLOGY/  
(STAT 402 - 2016 SCHEME)  
Tuesday, June 04, 2019 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

### Answer all the questions.

1) Following data represents the duration (in days) of chicken pox disease in 9 patients.

14 15 14 16 17 13 15 12 14

Calculate the values of

- |     |                     |     |
|-----|---------------------|-----|
| 1A) | Sample mean         | (2) |
| 1B) | Mode                | (1) |
| 1C) | Range               | (1) |
| 1D) | 50th percentile     | (2) |
| 1E) | Interquartile range | (8) |

2) Briefly explain the following with examples:

- |     |                  |     |
|-----|------------------|-----|
| 2A) | Cluster sampling | (3) |
| 2B) | Interval scale   | (3) |

### Answer all the questions.

- |     |  |     |
|-----|--|-----|
| 3)  | What is sampling error? What are the reasons for sampling error? What are the measures to reduce sampling error? (1+2+2 = 5 marks) | (5) |
| 4)  | State the properties of correlation coefficient. Give the formula of Pearson's correlation coefficient. (4+2 = 6 marks)            | (6) |
| 5)  | Distinguish between nominal and ordinal variables with examples.   | (4) |
| 6)  | Describe the demographic cycle.  | (6) |
| 7)  | Explain cross sectional study design with its advantages and limitations.  | (5) |
| 8A) | Define Total fertility rate  | (2) |
| 8B) | Define Infant mortality rate   | (2) |

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