Exam Date & Time: 29-Aug-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BPT/ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. RRT&DT / BOPT / B.O.T. DEGREE EXAMINATION - AUG/SEPT

SUBJECT : PHARMACOLOGY (PHAR 202) (2016 SCHEME) Thursday, August 29, 2019 (14.00 - 16.00)

Answer ALL questions.

Marks: 50

4C)

Antifungal agents

1) Define the following terms with an example: Generic name (2)1A) 1B) Local anaesthetics (2)1C) First pass metabolism (2)1D) Bactericidal drug (2)Competitive antagonism 1E) (2)Answer all the questions. Enumerate two anticholinesterases. List two uses and two adverse effects of them. (3)2A) 2B) List two parenteral routes of drug administration and mention two advantages and two disadvantages (3) of any one of them. 2C) Explain the basis for combining levodopa with carbidopa. (2) 2D) Mention two classes of anti-hypertensive drugs with an example for each. (2)Enumerate three classes of drugs used in peptic ulcer with an example for each and explain the (5)3A) mechanism of action of any one of them. 3B) List two classes of anti HIV drugs with an example for each. Explain the mechanism of action of (5)acyclovir and mention its two adverse effects. List two NSAIDs and explain their anti-inflammatory action. List two uses and two contraindications of (5) 3C) any one of them. 3D) Enumerate two corticosteroids and explain their immunosuppressant action. List two uses and two (5)adverse effects of corticosteroids. 4) List two examples and two uses of the following groups. 4A) Aminoglycosides (2)4B) Anticoagulants (2)

(2)

Duration: 120 mins.

4D)	Antiemetics	(2))
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4E) Antihistaminics (2)

-----End-----

Exam Date & Time: 30-Aug-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.

DEGREE EXAMINATION - AUG/SEPT 2019

SUBJECT : GENERAL PSYCHOLOGY/ PSYCHOLOGY (PSYC 202)

(2016/2016 RV SCHEME)

Friday, August 30, 2019 (14.00 - 16.00)

Marks: 50		Duration: 120 mins.		
Answer all the questions.				
1)	Explain the types and any two theories of Emotion.	(10)		
2)	Define Perception. Describe the laws of perception with examples.	(10)		
3A)	Observation method	(5)		
3B)	Long Term Memory	(5)		
3C)	Any five Defense mechanisms	(5)		
3D)	Moral development	(5)		
4A)	Reinforcement	(2)		
4B)	Flynn effect	(2)		
4C)	Availability heuristic	(2)		
4D)	Projective test	(2)		
4E)	Primary motives	(2)		

----End-----

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



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. R.T. DEGREE EXAMINATION - AUG/SEPT 2019 SUBJECT : BIOSTATISTICS (STAT 402) (2016 SCHEME) Saturday, August 31, 2019 (14.00 - 16.00)

Duration: 120 mins. Marks: 50 1) Briefly explain the following: Ratio scale 1A) (2)1B) Relative Frequency (2)General Fertility Rate (GFR) 1C) (2)1D) Gross Reproduction Rate (GRR) (2)1E) Crude Death Rate (CDR) (2)Answer all the questions. Explain the characteristics of statistical data. (5)2) 3) Explain different types of variables with examples. (5) 4) Erythrocyte Sedimentation Rate (ESR) readings (in mm) of 12 tuberculosis patients are given below. 12 8 11 9 8 14 8 12 8 9 11 10 Calculate the values of: 4A) Sample mean (2)Sample standard deviation 4B) (5)Coefficient of variation (2)4C) 4D) Range (1)A random sample of 140 children had a mean urinary lead concentration of 2.15 µmol/24hr, with 5) (5)standard deviation 0.85. Construct reference range which includes 95% of the observations. Enumerate any four differences between probability (random) sampling and non-probability sampling (4) 6) techniques. What is positive correlation? Explain with an example. (3)7) 8) Briefly explain the steps involved in a research process. (8)

Exam Date & Time: 03-Sep-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. RESPIRATORY THERAPY DEGREE EXAMINATION - AUG/SEPT 2019 SUBJECT: BRES 204 - RESPIRATORY CARE PHARMACOLOGY (2016 SCHEME) Tuesday Semester by 22 2019 (14 00 15 00)

Tuesday, September 03, 2019 (14.00 - 16.00)

Marks: 50		
Long answer question. Draw diagrams as necessary.		
1) Explain in detail the physical properties of mucus and write any four mucolytic agents. (6+4 = 10 marks)	(10)	
2) Enumerate the routes of Opioid drug administration? (5+5 = 10 marks)	(10)	
3. Short notes:		
3A) Classify corticosteroid drugs and give one example for each.	(5)	
3B) Nicotine replacement therapies.	(5)	
3C) Indications and adverse effects of Adrenaline.	(5)	
A dosage schedule of a surfactant calls for 4ml per kilogram of body weight. If a premature infant weighs 1200g, how many milliliters surfactant is needed? What is the normal pool of surfactant? (4+1 = 5 marks)	(5)	
4. Very short notes:		
4A) Define pinocytosis.	(2)	
4B) What is an orphan drug?	(2)	
4C) What is synergism and give an example.	(2)	
4D) Any four adverse effects of anticoagulants.	(2)	
4E) What is the predominant sympathetic receptor type found on airway smooth muscle?	(2)	
End		