Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

**SIXTH SEMESTER BPT/BOT/B.Sc. (ESS/ RRT & DT / RT / MIT) / FOURTH SEMESTER B.Sc. (PFT / CVT / CND / MLT / HIM / BOPT / BAOTT / RT / EMT / PHYSICIAN ASSISTANT / PSYCHOLOGY / NMT) / EIGHT SEMESTER (BPT / BOT) / SECOND SEMESTER BASLP DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: BST3201 / STAT 402 / BST 3202 - BIOSTATISTICS AND RESEARCH METHODOLOGY / BIOSTATISTICS / BASIC BIOSTATISTICS AND RESEARCH METHODOLOGY
(2016/2020/2022 SCHEME)**

Marks: 50   **Duration: 120 mins.**

Answer all the questions.

1A)	Elaborate graphical representation with examples.	(5)
1B)	Explain the properties of normal distribution with diagram.	(5)
2A)	Describe different types of clinical study designs.	(5)
2B)	Write short notes on non-probability sampling.	(5)
3A)	The triglycerides (serum) (in mg/dL) of 10 patients were as follows: 155, 150, 106, 89, 63, 68, 144, 125, 130, 74 Calculate mean, and standard for the above data.	(5)
3B)	Define the following: (i) Incidence rate (ii) prevalence rate.	(5)
3C)	Discuss about regression analysis and its two equations.	(5)
3D)	Write short notes on research process.	(5)
4A)	Define skewness.	(2)
4B)	The following are the weights for 10 patients. Calculate range and mode 60, 54, 74, 82, 59, 63, 72, 89, 58, 85.	(2)
4C)	What is meant by systematic sampling?	(2)
4D)	Define scatter plot.	(2)
4E)	Define case report.	(2)

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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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FOURTH SEMESTER B.Sc. PHYSICIAN ASSISTANT DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: PHA2201 - PAEDIATRICS FOR PHYSICIAN ASSISTANTS
(2022 SCHEME)

Marks: 50   **Duration: 120 mins.**

Answer all the questions.

1)	Define failure to thrive. Enumerate causes of FTT. Explain in detail about the types and management of each.	(10)
2)	Explain in detail about the clinical manifestations, diagnostic evaluation and management of Iron poisonings in Pediatrics.	(10)
3A)	Explain about hypocalcemia in children.	(5)
3B)	List any FIVE vaccine preventable bacterial infections.	(5)
3C)	Summarize about the normal diet pattern of infants.	(5)
3D)	What are the measures to be taken when baby is on phototherapy?	(5)
4A)	List any 2 Upper GI diseases associated with vomiting in children.	(2)
4B)	Define proteinuria.	(2)
4C)	What is Low Birth weight? Mention TWO cause for Low birth weight.	(2)
4D)	Name any TWO examination finding in newborn with heart disease.	(2)
4E)	Contrast microcephaly and macrocephaly.	(2)

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Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

**FOURTH SEMESTER PHYSIOTHERAPY / SECOND SEMESTER B.Sc. PHYSICIAN ASSISTANT DEGREE EXAMINATION -
MAY/JUNE 2024
SUBJECT: PHC2201 - PHARMACOLOGY
(2020/2022 SCHEME)**

Marks: 50   **Duration: 120 mins.**

Answer all the questions.

1A)	Explain first-pass metabolism. Mention two examples of drugs having high first-pass metabolism. List two advantages and two disadvantages of the inhalational route of drug administration.	(5)
1B)	Define competitive antagonists and non-competitive antagonists with suitable examples. Define therapeutic index.	(5)
2A)	Define general anaesthetics. Describe pre-anaesthetic medication and list two drugs used in pre-anaesthetic medication.	(5)
2B)	Explain the mechanism of action of aspirin. List two uses, two adverse effects, and two contraindications of morphine.	(5)

3. **Short notes:**

3A)	Describe the effects of adrenaline on CVS. List two therapeutic uses and two adverse effects of atropine.	(5)
3B)	List the composition of WHO-ORS. List three different classes of antiemetic with an example for each.	(5)
3C)	List two drugs, each used for acute attack and chronic prophylaxis of angina. Explain the mechanism of action of enalapril and list its two adverse effects.	(5)
3D)	Enumerate two aminoglycosides and mention their four common features. List two antifungal and two antitubercular drugs.	(5)

4. **Very short answers:**

4A)	List two centrally-acting and two peripherally-acting skeletal muscle relaxants.	(2)
4B)	List the four parts of a prescription.	(2)
4C)	Explain the mechanism of action of cotrimoxazole.	(2)
4D)	Explain the anti-inflammatory action of glucocorticoids.	(2)
4E)	List four general toxicities of anticancer agents.	(2)

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Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. PHYSICIAN ASSISTANT DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: PHA2242 - PROGRAM ELECTIVE - I : CARE OF GERIATRIC POPULATION
(2022 SCHEME)

Marks: 50   **Duration: 120 mins.**

Answer all the questions.

1)	Define hypertension. Outline the initial evaluation of hypertension in older adults. Brief the treatment of hypertension. (2+4+4 = 10 marks)	(10)
2)	Explain the common changes associated with normal aging. Give TWO examples from any 5 system. (5+5 = 10 marks)	(10)
3A)	What are the roles of outcomes in assuring quality of chronic care in elderly population?	(5)
3B)	Explain about the common abnormal laboratory parameters related to aging.	(5)
3C)	Explain in detail about the factors contributing to malnutrition in older adults.	(5)
3D)	Describe the primary preventive strategies in elderly.	(5)
4A)	Name any TWO potentially serious adverse drug reactions of antiparkinsonian drugs in the geriatric population.	(2)
4B)	List any FOUR screening tools for depression.	(2)
4C)	What is end of life artificial nutrition?	(2)
4D)	List any FOUR causes of falls in elderly.	(2)
4E)	Define dementia.	(2)

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