

Question Paper

Exam Date & Time: 30-May-2024 (10:00 AM - 12:00 PM)



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.

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|-----|--|-----|
| 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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Question Paper

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



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. (RRT & DT/RESPIRATORY THERAPY) / EIGHTH SEMESTER BOT DEGREE EXAMINATION -
MAY/JUNE 2024
SUBJECT: PSYC 402 - CLINICAL PSYCHOLOGY
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

Write essay on:

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| 1) | Describe any three models of normality | (10) |
| 2) | Discuss the different subtypes of schizophrenia | (10) |

3. Write a short note on:

- | | | |
|-----|---------------------------------|-----|
| 3A) | Supportive therapy | (5) |
| 3B) | Borderline personality disorder | (5) |
| 3C) | Alcohol Dependence | (5) |
| 3D) | Survey method | (5) |

4. Write very short answers on:

- | | | |
|-----|------------------------------|-----|
| 4A) | Psychological rehabilitation | (2) |
| 4B) | Shaping | (2) |
| 4C) | Coping | (2) |
| 4D) | Aphasia | (2) |
| 4E) | Specific Phobia | (2) |

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Question Paper

Exam Date & Time: 17-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

**SIXTH SEMESTER B.Sc.RENAL REPLACEMENT THERAPY & DIALYSIS TECHNOLOGY DEGREE EXAMINATION -
MAY/JUNE 2024
SUBJECT: RRT3201- ADVANCED EXTRACORPOREAL BLOOD THERAPIES FOR RENAL AND NON-RENAL CASES
(2020 SCHEME)**

Marks: 100

Duration: 180 mins.

A

Answer all the questions.

- 1) Explain the continuous venovenous hemodialysis procedure with a labeled circuit diagram. (20)
- 2) What is apheresis? List the types of apheresis. Explain the types and methods of replacement fluid infusion during this procedure and their advantages over the other. (20)
- 3) Explain the isolated ultrafiltration procedure in continuous renal replacement therapy with a schematic diagram. (10)
- 4) Explain the hemoperfusion procedure steps with a neatly labeled schematic diagram. (10)
- 5A) Compare a hemadsorbent with a hemodialyzer, highlighting their similarities and differences. (5)
- 5B) Explain the primary care at the hospital for drug overdose cases. (5)
- 5C) List the normal functions of the liver. (5)
- 5D) Explain the advantages of continuous renal replacement therapy (CRRT) compared to hemodialysis. (5)
- 5E) List the indications for continuous renal replacement therapies (5)
- 5F) What is CAVHD? Explain the blood circuit with a schematic diagram. (5)
- 6A) What is adsorption? (2)
- 6B) Why is hemadsorbent recommended for single use? (2)
- 6C) Name the commonly used materials employed as adsorbents (2)
- 6D) Name ANY TWO patient-related complications of hemadsorption. (2)
- 6E) List ANY TWO indications for liver dialysis. (2)

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Question Paper

Exam Date & Time: 27-May-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. RRT & DT DEGREE EXAMINATION - MAY/JUNE 2024
SUBJECT: RRT3242 - PROGRAM ELECTIVE - II : KIDNEY TRANSPLANT COORDINATION SKILLS
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Why is the transplant coordination team important in a hospital? Explain their responsibilities. (10)
- 2) Explain the process of brain stem death declaration and certification in India. (10)
- 3A) Which act regulates organ donation in India? List the living donors who can become organ donors according to this act. (5)
- 3B) How a kidney donor is monitored after kidney donation? Explain the follow-up process. (5)
- 3C) How can grief counselling be applied during end-stage kidney disease? Explain. (5)
- 3D) List the functions of Jeevasarthakathe in Karnataka. (5)
- 4A) What is preemptive kidney transplantation? (2)
- 4B) What is donation after cardiac death? (2)
- 4C) Why is creating awareness of deceased donor kidney transplantation important? (2)
- 4D) Why an informed consent is important during kidney donation? (2)
- 4E) List the stages of grief. (2)

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