

Question Paper

Exam Date & Time: 16-Aug-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR M.Sc. NURSING DEGREE EXAMINATION - AUGUST 2022
SUBJECT: MSN 601TH - NURSING EDUCATION

Marks: 75

Duration: 180 mins.

Answer all the questions.

Essay :

1. Discuss Problem Based Learning (PBL) under the following headings:

- | | | |
|-----|-------------------------------------|-----|
| 1A) | Define PBL | (2) |
| 1B) | Describe the characteristics of PBL | (5) |
| 1C) | Explain the process of PBL | (8) |

2. Discuss the following concepts of teaching and learning with suitable examples:

- | | | |
|-----|--|-----|
| 2A) | Describe the principles of teaching | (5) |
| 2B) | Explain the cognitive theory of learning | (5) |
| 2C) | Appraise the traditional system of education vs competency-based education | (5) |

3. Discuss how do you evaluate the test items based on the concept of item analysis under the following headings:

- | | | |
|-----|--|-----|
| 3A) | Explain item difficulty index | (5) |
| 3B) | Explain item discrimination index | (5) |
| 3C) | Describe distractors and their effectiveness | (5) |

4. Short Note :

- | | | |
|-----|--|-----|
| 4A) | Explain the perspectives of nursing education | (6) |
| 4B) | Describe the advantages and disadvantages of distance education in nursing | (6) |
| 4C) | Discuss the uses of AV aids in nursing education | (6) |
| 4D) | Explain the tools of performance appraisal | (6) |
| 4E) | Explain the levels of counselling technique | (6) |

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Question Paper

Exam Date & Time: 18-Aug-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR M.Sc. NURSING DEGREE EXAMINATION - AUGUST 2022
SUBJECT: MSN 604 - NURSING RESEARCH & STATISTICS

Marks: 75

Duration: 180 mins.

SECTION A : NURSING RESEARCH

Answer all the questions.

Essay :

- 1A) Classify experimental designs (4)
- 1B) Discuss the characteristics, advantages and disadvantages of randomised control design (9)

Answer all the questions.

2. A researcher plans to carry out a study titled "Correlational study on oral health, nutrition and oral health related quality of life among older adults in selected villages."

- 2A) Explain the type of data collection instruments that have to be prepared by the researcher to collect the data for this study with justification for each type (5)
- 2B) Construct ANY TWO data collection instruments for this study (8)

3. Short note:

- 3A) Explain the importance of review of literature (6)
- 3B) Discuss the types of hypotheses with one example for each of the type (6)
- 3C) Explain stratified sampling technique with relevant examples (6)
- 3D) Discuss the elements to be included in research discussion (6)

SECTION B : STATISTICS

Answer all the questions.

4. Choose the single best response for the following:

- 4A) Which of the following is a nominal variable? (1)

Height

Performance grade

Religion

Temperature

- 4B) Table below shows the percentage score distribution of 200 students (1)

Percentage Score	30-39	40-49	50-59	60-69	70-79	80-89
Number of students	20	40	60	60	14	6

What percent of the students scored above 59%?

- 20
- 40
- 60
- 80

4C) Which of the following statement is FALSE about a Latin Square Design? (1)

- A Latin square for p factors, or a p x p Latin square, is a square containing p rows and p columns. Each of the resulting squares contains one letter corresponding to a treatment, and each letter occurs once and only once in each row and column.
- In a Latin Square Design there are p x p x p treatments
- The rows and columns in a Latin square design represent two restrictions on randomization.

Short Answer :

5) Mean and SD of a score distribution is 80 and 5 respectively. If a student's score corresponds to a T-score of 60, estimate the corresponding raw score (2)

6. Short Notes:

6A) Discuss quartiles and estimate the inter quartile range of the following data (5)

Random Blood Glucose level (mg/dL):
12, 13, 12, 14, 20, 12, 15, 13, 16, 12.

6B) Given the weight of adult males is approximately normally distributed with a mean of 66 Kgs and a S.D. of 4 Kgs. (5)

Determine the following:

- i) What percent of males are in the range 62 - 70 Kgs?
- ii) What percent of males are weighing more than 70 Kgs?

6C) Discuss interpretation of Karl Pearson's Product moment correlation coefficient and construct the type of correlation between X and Y with the help of a scatter diagram (5)

X	60	55	95	70	100	80	90	75	65	85
Y	9	33	73	48	95	70	67	52	55	71

6D) Estimate whether there is a significant association between cure rate and occupation, applying chi-square test and justify the risk of neck pain is higher in which of the two occupations? (5)

(Chi square table value with 1 df = 3.84)

	Neck pain present	Neck pain absent
Computer operators	170	30
Drivers	50	150

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Question Paper

Exam Date & Time: 22-Aug-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR M.Sc. NURSING DEGREE EXAMINATION - AUGUST 2022
SUBJECT: MSN 605.1TH - CLINICAL SPECIALITY - I - MEDICAL SURGICAL NURSING

Answer ALL questions.

Use illustration wherever required.

CLINICAL SPECIALITY - 1 (MEDICAL SURGICAL NURSING) [MSN 605.1TH]

Marks: 75

Duration: 180 mins.

Answer all the questions.

1. Mr. G a 40 years old male is brought to the emergency department with a history of fall from approximately 15 meters in height. On examination, patient has tenderness over the neck, loss of perception, pain, temperature, and motor function is noted in all the limbs, and light touch, position and vibration sensation remain intact indicating incomplete spinal cord injury. Answer the following in relation to Mr. G.

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|-----|---|-----|
| 1A) | Explain the pathophysiological changes involved in Spinal Cord injury | (4) |
| 1B) | Discuss spinal cord syndrome | (5) |
| 1C) | Explain the nursing management of Mr. G. | (6) |

Answer all the questions.

2. Mr. R, a 66-year-old shopkeeper is presented to medicine OPD with a history of multiple joint pain, palpitation and rashes. He also gives a history of fever and sore throat 2 months back. On examination, he has swelling and tenderness over knee joints, erythema marginatum and mild hyperthermia. He is diagnosed to have a rheumatic fever after relevant investigations. Answer the following in relation to Mr. R.

- | | | |
|-----|--|-----|
| 2A) | Describe the risk factors | (4) |
| 2B) | Explain Jones's criteria for diagnosis | (5) |
| 2C) | Formulate nursing intervention with rationale for two prioritized problems | (6) |

3. Ms. X 21 years, was admitted to the emergency department with 40% body surface area burns. On assessment, she had partial-thickness burns of the upper thigh, abdomen and anterior chest, circumferential burns to the left arm and deep burns on the left arm with singed nasal hairs and eyebrows. Her vital signs BP: 100/50 mm Hg, pulse: 120/ min, respiration: 28/ min and her SPO₂: 93% on room air. Answer the following:

- | | | |
|-----|---|-----|
| 3A) | Discuss the extent of burns calculated in percent of total body surface area (TBSA) | (6) |
| 3B) | Explain the medical management in the emergent phase of Ms. X | (9) |

4. Short Note:

- | | | |
|-----|---|-----|
| 4A) | Describe the rights of the patients in the hospital | (6) |
| 4B) | Discuss the clinical manifestations of cholelithiasis | (6) |

Question Paper

Exam Date & Time: 22-Aug-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR M.Sc. NURSING DEGREE EXAMINATION - AUGUST 2022
SUBJECT: MSN 605.2TH - CLINICAL SPECIALITY - I - OBSTETRIC AND GYNECOLOGICAL NURSING

Marks: 75

Duration: 180 mins.

Answer all the questions.

Essay :

- 1) Explain in detail the psychological adaptation during pregnancy according to each trimesters (15)

2. Mrs. B has given birth to a full term male baby 10 minutes ago. Answer the following in relation to the stage of labour:
 - 2A) Explain the physiology of labour (7)
 - 2B) Discuss in detail the management of labour (8)

3. Mrs. X, a 28 year old primigravida underwent spontaneous vaginal delivery a day ago. She asks the nurse "How often she should breastfeed the baby". Answer the following in relation to breast feeding:
 - 3A) Explain the physiology of lactation (7)
 - 3B) Discuss the detailed breastfeeding health education plan for Mrs. X (8)

4. Short note:
 - 4A) Write on female reproductive system (6)
 - 4B) Appraise any two theories in midwifery and their application in practice (6)
 - 4C) Explain the standing orders used in Obstetrics (6)
 - 4D) Explain the recent advances in contraceptive technology (6)
 - 4E) Explain the management of any two menstrual irregularities (6)

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Question Paper

Exam Date & Time: 22-Aug-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR M.Sc. NURSING DEGREE EXAMINATION - AUGUST 2022

SUBJECT: MSN 605.3TH - CLINICAL SPECIALITY - I - CHILD HEALTH (PAEDIATRIC) NURSING

Answer ALL questions.

Marks: 75

Duration: 180 mins.

Write the answers clearly and legibly. Use diagrams, illustrations wherever needed.

Essay:

1. A 14-year-old female child came to the pediatric OPD for regular health screening with her mother. On assessment, the weight was 30 kg and height was 135 cm. The dietary history reveals that child eats more of pizza, burger, noodles, and chips. Mother expresses her concern that the child watches TV/ uses the electronic gadgets midnight till 2 AM and does not listen to mother. In relation to this scenario, answer the following:

- 1A) Explain the biological changes that you expect the child to develop. (7)
- 1B) Discuss the health promotion activities that you will counsel the child for leading a healthy lifestyle. (8)

2. A female infant born at 27 weeks of gestation to a 33-year-old mother was transferred 10 hours after birth to a Neonatal Intensive Care Unit of tertiary care hospital with evidence of sepsis and respiratory distress. The apgar scores were eight and nine at one and five minutes respectively. Her birth weight was 1200 grams. Considering the scenario, answer the following questions:

- 2A) Explain the important points that need to be collected from the mother during history collection. (4)
- 2B) Write the clinical features that you would expect in this infant during the physical assessment. (4)
- 2C) Outline the preventive measures that need to be followed to prevent nosocomial infection in NICU. (4)
- 2D) Explain the important health education content to be taught to the mother during discharge. (3)

3. An 18-month-old baby girl was brought to the health center as the baby had fever and runny nose since two days. The axillary temperature was 37.5°C. Baby was from low malaria risk area and has not had measles within the last three months. She does not have stiff neck. She weighed 11.5 kg, This is the initial visit for this problem. Answer the following based on the IMNCI guidelines.

- 3A) Explain the clinical assessment that you would do to the child. (5)
- 3B) Describe the classification of the child's condition. (4)
- 3C) Elaborate on the management plan for the baby. (6)

4. Short Notes :

- 4A) A ten-month-old male child is admitted to the pediatric ward with edema, decreased urine output and lethargy and is diagnosed to have Nephrotic Syndrome. As a pediatric nurse, you are assigned to perform physical assessment of the child. Explain how will you adapt to the assessment of a child from the assessment of an adult and the expected findings following the steps of system specific assessment. (6)
- 4B) Analyze the effects of hospitalization on the child and family. (6)
- 4C) Outline the legal and ethical aspects in genetic screening. (6)
- 4D) Analyze the influence of parent child relationship on the developmental stages. (6)
- 4E) The aim of preventive pediatrics is to enhance the health and wellbeing of children in India. Outline briefly the role of a pediatric nurse in preventive pediatrics. (6)

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Question Paper

Exam Date & Time: 22-Aug-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR M.Sc. NURSING DEGREE EXAMINATION - AUGUST 2022

SUBJECT: MSN 605.4TH - CLINICAL SPECIALITY - I : PSYCHIATRIC (MENTAL HEALTH) NURSING

Marks: 75

Duration: 180 mins.

Answer all the questions.

Essay :

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|-----|--|------|
| 1A) | Explain the stages of personality development according to Sigmund Freud | (10) |
| 1B) | Determine the relevance of psychoanalytic theory to psychiatric nursing practice | (5) |
| 2A) | Explain the types of group therapy | (7) |
| 2B) | Examine the role of a Nurse in group therapy | (8) |

3. Mrs. Y, 45-year-old housewife is admitted to a Psychiatric ward with symptoms of auditory hallucination, wandering behaviour, thought alienation phenomena. She is on Tab. Chlorpromazine 150 mg/day. Answer the following questions based on the above scenario:

- | | | |
|-----|---|-----|
| 3A) | Classify antipsychotics | (5) |
| 3B) | Outline the possible side effects in Mrs.Y due to Tab. Chlorpromazine | (3) |
| 3C) | Discuss the role of a nurse in administration of Tab. Chlorpromazine | (7) |

4. Short note:

- | | | |
|-----|--|-----|
| 4A) | Assess the emerging trends in the field of Psychiatric mental health nursing | (6) |
| 4B) | Illustrate on Anterior pituitary hormones | (6) |
| 4C) | Explain the behavioral components of assertive communication | (6) |
| 4D) | Explain the PIE method with an example | (6) |
| 4E) | Analyze Light therapy as a complementary therapy in mental illness | (6) |

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Question Paper

Exam Date & Time: 22-Aug-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR M.Sc. NURSING DEGREE EXAMINATION - AUGUST 2022
SUBJECT: MSN 605.5TH - CLINICAL SPECIALTY - COMMUNITY HEALTH NURSING

Answer ALL questions.

Marks: 75

Duration: 180 mins.

Answer all the questions.

Essays:

- 1) Differentiate between the facilities and functions of Health and wellness Centers and Primary health centers. (15)

2. Explain Integrated Management of Neonatal and Childhood Illness (IMNCI) under the following headings :
 - 2A) Components of IMNCI (3)
 - 2B) Objectives (3)
 - 2C) Case Management Process for a child (3 years) with Anemia (9)

- 3) Elaborate on the health belief model and its application in the promotion of self-care of a client with hypertension (15)

4. Short note:

- 4A) Explain the Community Diagnosis and its process (6)
- 4B) Identify the determinants of health (6)
- 4C) Appraise the stages of demographic cycle (6)
- 4D) Describe the assessment of health needs during disaster (6)
- 4E) Outline the principles of health education (6)

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Question Paper

Exam Date & Time: 24-Aug-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR M.Sc. NURSING DEGREE EXAMINATION - AUGUST 2022
SUBJECT: MSN 603 - ADVANCED NURSING PRACTICE

Marks: 75

Duration: 180 mins.

Answer all the questions.

Essay :

- | | | |
|-----|---|-----|
| 1A) | Explain Inflammation process | (4) |
| 1B) | Explain the key mediators of inflammation | (5) |
| 1C) | Discuss on types of inflammation | (6) |

2. Read the following scenario and answer the following:

Mr. Jay, 30 years old, was seen in the emergency triage, after sustaining an injury while playing football. He states that, he heard a "pop" sound when he was tackled and now is unable to support weight on his right ankle. He is experiencing pain rated as 8 on a scale of 0-10. His ankle has severe ecchymosis and large amount of tissue swelling around the fibula.

- | | | |
|-----|---|-----|
| 2A) | List all the problems of Mr. Jay | (3) |
| 2B) | Formulate TWO priority nursing diagnoses for the listed problem | (4) |
| 2C) | Prepare an action plan with rationale for the listed diagnoses | (8) |

3. Your closest friend has been diagnosed with breast cancer. Following surgery and chemotherapy she learned that the cancer has metastasized. She is single and has a daughter who is 6 years old. Apply Roy's adaptation model and answer the following.

- | | | |
|-----|--|-----|
| 3A) | Identify her adaptive needs in the physiological adaptive mode. | (3) |
| 3B) | Plan the possible interventions which you would discuss with her? | (6) |
| 3C) | Write the possible interventions in the interdependence adaptive mode. | (6) |

4. Short note:

- | | | |
|-----|--|-----|
| 4A) | Explain the role of regulatory bodies | (6) |
| 4B) | Discuss health care environment | (6) |
| 4C) | Application of epidemiology in health care delivery system | (6) |
| 4D) | Describe the process of Genetic Counselling | (6) |
| 4E) | Discuss on evidence based practice in nursing | (6) |