

SYLLABUS FOR POST BASIC B.Sc NURSING

Section - I

PREAMBLE

Nursing encompasses autonomous and collaborative care of individuals of all ages, families, groups and communities, sick or well and in all settings. Nursing includes the promotion of health, prevention of illness, and the care of ill, disabled and dying people. Advocacy, promotion of a safe environment, research, participation in shaping health policy and in patient and health systems management, and education are also key nursing roles.

The authority for the practice of nursing is based upon a social contract that delineates professional rights and responsibilities as well as mechanisms for public accountability. In almost all countries, nursing practice is defined and governed by law, and entrance to the profession is regulated at national or state level.

The aim of the nursing community worldwide is for its professionals to ensure quality care for all, while maintaining their credentials, code of ethics, standards, and competencies, and continuing their education. There are a number of educational paths to becoming a professional nurse, which vary greatly worldwide, but all involve extensive study of nursing theory and practice and training in clinical skills.

Nurses care for individuals who are healthy and ill, of all ages and cultural backgrounds, and who have physical, emotional, psychological, intellectual, social, and spiritual needs. The profession combines physical science, social science, nursing theory, and technology in caring for those individuals.

The role of the nurse is evolving, as the mode of delivery of health care services has undergone major changes both locally and internationally in the past decades. In line with international trends, we are developing a health care system that provides lifelong holistic care, promotes health, enhances the quality of life and enables human development. The availability of qualified and competent health care professional is the key to the delivery of quality health care services. As nurses play a pivotal role in the promotion, maintenance and restoration of health, we need to develop competent nurses who are able to take up extended and expanded roles in the delivery of primary, secondary and tertiary care. Thus, apart from the roles of a caregiver, the nurse needs to develop competence to take up the roles of health promoter, educator, counselor, care coordinator, case manager, researcher as well as that the students acquires the essential competence that enables them to fulfill these roles competently and ethically.

Philosophy

We believe the philosophy of Indian nursing council:

Health is a state of well-being that enables a person to lead a psychologically, socially and economically productive life. Health is not a privilege but a right of all the people. Individuals, families and communities have a responsibility towards maintaining their health.

Nursing contributes to the health services in a vital and significant way in the health care delivery system. It recognizes national health goals and is committed to participate in the implementation of National Health policies and programmes. It aims at identifying health needs of the people, planning and providing quality care in collaboration with other health professionals and community groups.

Scope of nursing practice encompasses provision of promotive, preventive, curative and rehabilitative aspects of care to people across their life span in wide variety of health care settings. Practice of nursing is based upon application of basic concepts and principles derived from the physical, biological, behavioral sciences.

Nursing is based on values of caring, and aims to help individuals to attain independence in self-care. It necessitates development of compassion and understanding of human behavior among its practitioners to provide care with respect and dignity and protect the rights of individuals & groups. Undergraduate nursing program at the post basic level is a broad based education within an academic framework, which builds upon the skills and competencies acquired at the diploma level. It is specifically directed to the upgrading of critical thinking skills, competencies & standards required for practice of professional nursing and midwifery as envisaged in National Health Policy 2002.

The teachers have the responsibility to be role models and create learning environment that enables students to acquire inquiry driven, self directed learning and foster an attitude of life long learning. Under graduate nursing education program at the post basic level prepares its graduates to become exemplary citizen by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations.

Aims

The aim of the undergraduate nursing program at the post basic level is to upgrade the diploma (GNM) nurses to:

- assume responsibilities as professional, competent nurses and midwives at basic level in providing promotive, preventive, curative, and rehabilitative services.
- make independent decisions in nursing situations, protect the rights of and facilitate individuals and groups in pursuit of health, function in the hospital, community nursing services, and conduct research studies in the areas of nursing practice. They are also expected to assume the role of teacher, supervisor, and manager in clinical/public health settings.

Objectives

On completion of B.Sc. Nursing (Post-Basic) degree programme the graduates will be able to:

1. Assess health status, identify nursing needs, plan, implement and evaluate nursing care for patients/clients that contribute to health of individuals, families and communities.
2. Demonstrate competency in techniques of nursing based on concepts and principles from selected areas of nursing, physical, biological and behavioral sciences.
3. Participate as members of health team in the promotive, preventive, curative and restorative health care delivery system of the country.
4. Demonstrate skills in communication and interpersonal relationship.
5. Demonstrate leadership qualities and decision-making abilities in various situations.
6. Demonstrate skills in teaching to individuals and groups in community health settings.
7. Demonstrate managerial skills in community health settings.
8. Practice ethical values in their personal and professional life.
9. Participate in research activities and utilize research findings in improving nursing practice.
10. Recognize-the need for continued learning for their personal and professional development.

SUBJECT AND TEACHING SCHEDULE

COURSE OF STUDY

S.NO	SUBJECT	HOURS THEORY	HOURS PRACTICAL
	1 Year		
1	Nursing Foundation	45	-
2	Nutrition & dietetics	30	15
3	Biochemistry & Biophysics	60	-
4	Psychology	60	15
5	Maternal Nursing	60	240
6	Child Health Nursing	60	240
7	Microbiology	60	30
8	Medical & Surgical Nursing	90	270
9	English (Qualifying)	60	-
	Total	525	810
Note: Hindi /Local Language as per the need of institution			
	2nd Year		
10	Sociology	60	-
11	Community Health Nursing	60	240
12	Mental Health Nursing	60	240
13	Introduction to Nursing Education	60	75
14	Introduction to Nursing Administration	60	180
15	Introduction to Nursing Research & Statistics	45	120
16.	Environmental Science	50	-
	Total	395	855

SCHEME OF EXAMINATION

Paper	Subject	Duration	Int. Asst	Ext. Asst	Total Marks
Theory	1st Year				
1	Nursing Foundation	2	15	35	50
2	Nutrition & Dietetics	2	15	35	50
3	Biochemistry & Biophysics	3	25	75	100
4	Psychology	3	25	75	100
5	Maternal Nursing	3	25	75	100
6	Child Health Nursing	3	25	75	100
7	Microbiology	3	25	75	100
8	Medical & Surgical Nursing	3	25	75	100
9	English (Qualifying)*	3	25	75	100
	Practical				
1	Medical & Surgical Nursing		50	50	100
2	Maternal Nursing		50	50	100
3	Child Health Nursing		50	50	100
	2nd Year				
10	Sociology	3	25	75	100
11	Community Health Nursing	3	25	75	100
12	Mental Health Nursing	3	25	75	100
13	Introduction To Nursing Education	3	25	75	100
14	Introduction To Nursing Administration	3	25	75	100
15	Introduction To Nursing Research & Statistics**	2	50	50	100
16.	Environmental science**	2	25	75	100
Practical					
1	Community Health Nursing	3	50	50	100
2	Mental Health Nursing	3	50	50	100

Note: * Qualifying Examination

** College Examination (not University Examination)

N.B:

1. Teaching of Anatomy, Physiology, Pharmacology and Pathology will be integrated with clinical subjects
2. A minimum of 80% Attendance in theory and Practical in each subject is essential for appearing in the examination.
3. 100% attendance in practical in each clinical area is essential before award of degree.
4. 50% of minimum marks in each theory and practical paper separately is required for passing.
5. A candidate has to secure minimum of 33% in qualifying subject for passing.

D. Y PATIL UNIVERSITY
D.Y.PATIL COLLEGE OF NURSING KOLHAPUR
POST BASIC. B.SC NURSING I YEAR
NURSING FOUNDATION

THEORY: 45hrs

COURSE DESCRIPTION:-

This course will help students to develop an understanding of the philosophy, objectives and responsibilities of nursing as a profession. The purpose of the course is to orient to the current concepts involved in the practice of nursing and developments in the nursing profession.

OBJECTIVES :-

At the end of the course, the students will:

1. Identify professional aspects of nursing
2. Explain theories of nursing
3. Identify ethical aspects of nursing profession
4. Utilise steps of nursing process
5. Identify the role of the nurse in various levels of health services
6. Appreciate the significance or quality assurance in nursing.
7. Explain current trends in health and nursing

UNIT NO	HOURS	Learning Objective	COURSE CONTENTS	Teaching learning Activities	Assessment Method
Unit I	6 hrs	<p>Explain concept & scope of nursing</p> <p>Describe values code of ethics & Professional conduct for nurses in india</p>	<p>Development of Nursing as a profession</p> <ul style="list-style-type: none"> * Its philosophy * Objectives and responsibilities of a graduate nurse * Trends influencing nursing practice * Expanded role of the nurse * Development of nursing education in India and trends in nursing education * Professional organizations, career planning * Code of ethics & Professional conduct for nurse. 	Lecture, discussion , chart, slides	Written Test; Objective and Essay Type.
Unit II	12 hrs	<p>Describe the ethical legal issues in nursing</p> <p>Explain concept of health ,illness effect on the individual</p> <p>Explain developmental concept ,needs & roles of individual</p>	<p>Ethical, legal and other issues in nursing</p> <ul style="list-style-type: none"> * Concepts of health and illness, effects on the person * Stress and adaptation * Health care concept and nursing care concept * Developmental concept, needs, roles and problems of the development stages of individual –newborn, infant, toddler, pre-adolescent, adolescent, adulthood, middle-age, old age. 	Lecture, discussion , charts, slides & Demonstrations	Written Test; Objective and Essay Type.

Unit III	5hrs	Explain the theory of nursing practice Describe met paradigm of nursing	Theory of nursing practice * Meta paradigm of nursing – characterized by four central concepts i.e. nurse, person (client/patient), health and environment.	Lecture, discussion . Demonstration Practice session Clinical Practice	Written Test; Objective and Essay Type.
Unit IV	10 hrs	Explain the concepts ,uses & steps of nursing process	Nursing process. * Assessment: Tools for assessment, methods, recording. * Planning: Techniques for planning care, types of care plans. * Implementation of care, recording. * Evaluation: Tools for evaluation, process of evaluation.	Lecture, discussion . Demonstration Practice session Clinical Practice	Written Test; Objective and Essay Type.
Unit V	4 hrs	Explain the value of quality assurance in nursing	Quality assurance: * nursing standards, nursing audit, total quality management. * Role of council and professional bodies in maintenance of standards.	Lecture, discussion . Demonstration ,charts ,slides .	Written Test; Objective and Essay Type.
Unit VI	4 hrs	Explain the current trends in health & nursing	Primary health care concept: * Community oriented nursing * Holistic nursing, Primary nursing * Family oriented nursing concept, Problem oriented nursing * Progressive patient care * Team nursing	Lecture, discussion ,	Written Test; Objective and Essay Type.
Unit VII	4 hrs	Explain biomedical waste management	Biomedical Waste Management	Field Visit, lecture& discussion	Written Test; Objective and Essay Type.

REFERENCES:

1. Kozier B, Erb, G & Oliver, R : Fundamentals of Nursing ;4th ed. California, Addison Wesley., 1991
2. Perry, A.G. & Potter, P.A.: Basic nursing essentials of practice; 5th ed. St. Louis,Mosby, 2003
3. Potter, P.A. & Perry, A.G.: Fundamentals of nursing; 5th ed. Mosby Harcott(India) Pvt. Ltd.
4. Beverly WitleDugas : Introduction to patient care ; 4th ed., Saunders, 2002
5. White, Lois: Foundations of nursing caring for the whole person; U.S.A.
6. Delmer Thompson Learning,
7. Luckmann, J & Sorensen, K.C.: Basic nursing: a psychophysiologic approach; 3rd
8. ed., W. B. Saunders, 2002
9. Park, J.E. :Text book of preventive and social medicine ; 17th ed., Banarasidas
10. Bhanot, 2003

DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT NURSING FOUNDATION

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 5	5 x 1	5
2.	Long Answer Questions (LAQ) (Any1 out of 2)	1 x 10	10
3.	Short Notes (4 out of 6) a) b) c) d) e) f)	4x5	20

Note :

1. MCQ : Each MCQ carries 1 mark.
2. Long Answer Questions : 2 questions will be given out of which , 1 have to be answered.
3. Short Notes : 6 questions will be given out of which, 4 have to be answered.

NUTRITION AND DIETETICS

Placement :First Year

Time Allotted: Theory -30 hrs.

Practical -25 hrs

COURSE DESCRIPTION

This course is designed to provide the students with a wide knowledge of dietetics in Indian setting, that the practice of teaching optimum and realistic dietary planning can become an integral part of nursing practice.

OBJECTIVES

At the end of the course, the student will

1. Explain the principles and practices of nutrition and dietetics.
2. Plan therapeutic diets in different settings.
3. Identify nutritional needs of different age groups and plan diet accordingly.
4. Prepare meals using different methods utilizing cookery rules.

UNIT NO	HOURS		Learning Objective	COURSE CONTENT	Teaching Learning Activities	Assessment
	T	P				
I	8Hrs		Explain the principles of nutrition & dietetics	Introduction to nutrition and dietetics. * Balanced diet, factors on which it depends. * Factors to be considered in planning. * Guides available for planning. * Food hygiene, preparation and preservation * Review of nutrients –micro and macro.	Lecture & Discussion Explain Using chart Panel Discussion	Written Test; Objective and Essay Type.
II	8Hrs	8	Describe & plan various therapeutic diet for different conditions	Introduction to diet therapy * Routine hospital diets * Therapeutic diet under each unit i.e. cardiovascular diseased, Gastronitestinal diseases, Renal disorders, endocrine and metabolic disorders, allergy, infections and fevers, pre and post operative stage, deficiency diseases and malnutrition, overweight and underweight.	Lecture & Discussion Explain Using chart	Written Test; Objective and Essay Type.

III	8Hrs	7	Describe and plan feeding of infant & children	<p>Infant and child nutrition</p> <ul style="list-style-type: none"> * Feeding of normal infants: factors to be considered in planning, nutritional requirements. * Feeding of premature infants: factors to be considered in planning, nutritional requirements. * Supplementary feeding of infants: Advantage and method of introduction. * Weaning, effects on mother and child * Psychology of infant and child feeding. * Feed the sick child. Diet in diseases of infancy and childhood. * Deficiency states – malnutrition and under nutrition. * Feeding pre-school child: nutritional needs, factors to be considered in planning diets. Problems in feeding. * School lunch programme: Advantages, Need in India. 	<p>Lecture & Discussion Explain with slide film show</p> <p>Demonstration of assessment of nutritional charts</p>	Written Test; Objective and Essay Type.
IV	6Hrs		<p>Describe various community nutrition programme</p> <p>Describe nutritional needs & diet plan for different age groups</p>	<p>Community Nutrition: Need for community nutrition programme.</p> <ul style="list-style-type: none"> * Nutritional needs for special groups: infant, child, adolescent, pregnant woman, lactating mother and old people. * Substitutes for non-vegetarian foods. * Selection of cheap and nutritious foods. Nutrition education- needs and methods. * Methods of assessing nutritional status of individual/group/community. * Current nutritional problems and national programmes. 	<p>Lecture & Discussion Explain with slide film show</p> <p>Demonstration of assessment of nutritional charts</p>	Written Test; Objective and Essay Type.

PRACTICUM

I. Methods of cooking and cookery rules.

1. Simple preparation of beverages, soups, cereals and pulses, eggs, vegetables, meat.
2. Menu Plans.

II. Preparation of supplementary food for infants.

1. Food for toddlers.
2. Low cost nutritious dishes for vulnerable groups.
3. Dietary case study of patient on special diet and planning of low cost dietary instructions for home adaptations.
4. Planning of therapeutic diets.

REFERENCES:

- 1) Clinical dietetics and Nutrition, Antia 4th ed.
- 2) Nutritive value of Indian foods, Gopalan, 1st ed.
- 3) Krause's Food, Nutrition & diet Therapy, Mahan, 11th ed.
- 4) Nutrition & diet therapy, Williams
- 5) Clinical Dietetics & Nutrition, Philip.

DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT NUTRITION AND DIETETICS

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 5	5 x 1	5
2.	Long Answer Questions (LAQ) (Any1 out of 2)	1 x 10	10
3.	Short Notes (4 out of 6) a) b) c) d) e) f)	4x5	20

Note :

1. MCQ : Each MCQ carries 1 mark.
2. Long Answer Questions : 2 questions will be given out of which , 1 have to be answered.
3. Short Notes : 6 questions will be given out of which, 4 have to be answered.

BIOCHEMISTRY AND BIOPHYSICS

Placement: First Year

Time Allotted:

Section A (Biochemistry) – Theory 30 hrs.

Section B (Biophysics) - Theory 30 hrs.

Practical - 30 hrs

COURSE DESCRIPTION:

This course introduces the basic principles of biochemistry and biophysics related to nursing.

OBJECTIVES:

At the end of the course, the student will

1. Identify the basic principles of biochemistry and biophysics.
2. Synthesize the knowledge of these principles in various nursing situations.

Section A: (Biochemistry)

THEORY : -30 Hrs

UNIT NO	HOURS	Learning Objective	COURSE CONTENTS	Teaching learning Activities	Assessment Method
I	2Hrs	Describe basic principles of biochemistry Describe the structure & functions of cell	Introduction : Importance of biochemistry in nursing * Study of cell and its various components.	Lecture, discussion, ,charts, slides Demonstration use of microscope	Written Test; Objective and Essay Type.
II	2Hrs	Describe the water & electrolyte balance of human body	Water and Electrolytes: Water sources, property and functions in human body. * Water and fluid balance. * Electrolytes of human body, functions, sources.	Lecture, discussion, Charts Slides Explain using charts, graph	Written Test; Objective and Essay Type.

III	5Hrs	Explain the mechanism of enzymes	Enzymes * Mechanism of action * Factors affecting enzyme activity * Diagnostic applications * Precautions for handling specimens for enzyme estimation * Digestion and absorption of carbohydrates, proteins and fats * Various factors influencing the digestion and absorption, malabsorption syndrome.	Lecture, discussion Slides Demonstration in laboratory	Written Test; Objective and Essay Type.
IV	5Hrs	Explain catabolism of carbohydrates Explain the storage and utilization of fats & glucose in the body	Carbohydrates: Catabolism of carbohydrates for energy purposes * Mitochondrial oxidation and oxidation phosphorylation. * Fats of glucose in the body. Storage of glucose in the body, glycogenesis, glycogenolysis and neoglucogenesis, blood glucose and its regulation. * Glucose tolerance test, hyperglycemia, hypoglycemia, glycemia.	Lecture, discussion Charts Slides Demonstration of laboratory tests	Written Test; Objective and Essay Type.
V	5Hrs	Explain the metabolism of amino acids & proteins	Protein : Amino acids, hormones. * Essential amino acids. Biosynthesis of protein in the cells * Role of nucleic acid in protein synthesis. * Nitrogenous constituents of urine, blood, their origin –urea cycle, uric acid formation, gout. * Plasma proteins and their functions.	Lecture, discussion Charts Slides Demonstration of laboratory tests	Written Test; Objective and Essay Type.

VI	6Hrs	Explain the metabolism of fat, importance lipids & their functions	Fat: Biosynthesis of fats and storage of fats in the body.
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INTRODUCTION TO NURSING RESEARCH AND STATISTICS

Placement :Second Year Time

Allotted: Theory -45 hrs

Practical -120 hrs

COURSE DESCRIPTION

The course is designed to assist the students to develop an understanding of basic concepts of research and statistics, use the findings of nursing research in nursing practice, apply the knowledge in conducting projects(s) and solve problems related to nursing using scientific method.

OBJECTIVES

At the end of the course, the students will:-

1. Define the terms and concepts of nursing research
2. Identify needs and scope of nursing research
3. Identify and define a research problem
4. Locate and list sources of literature for a specific study
5. Describe different research approaches, methods of data collection and sampling techniques with a special reference to survey method.
6. Develop tool for data collection
7. Enumerate steps of data analysis and present data summary in tabular form.
8. Use descriptive and co-relational statistics in data analysis
9. Conduct a group research project.

UNIT NO	HOURS	Learning Objective	COURSE CONTENT	TEACHING LEARNING ACTIVITIES	ASSESSMENT
I	4	Defines the research definition	A.INTRODUCTION TO RESEARCH METHODOLOGY * Steps of scientific methods. * Definition of research * Need for nursing research * Characteristics of good research. Research process.	<ul style="list-style-type: none">• Chalkboard• Transparenc y	<ul style="list-style-type: none">➤ Assignments➤ Unit tests,➤ Objectives➤ Type

II	4	Discuss the Definition or research terms and Review of literature.	Statement of research problem * Statement of purpose and objectives * Definition or research terms * Review of literature.	<ul style="list-style-type: none"> • Chalkboard • Transparency • Power Point 	<ul style="list-style-type: none"> ➤ Assignments ➤ Short Answers ➤ Objectives ➤ Type
III	4	Discuss Research approaches	Research approaches:- historical, survey and experimental	<ul style="list-style-type: none"> • Chalkboard • Transparency • Power Point 	<ul style="list-style-type: none"> ➤ Essay type ➤ Short Answers ➤ Objectives ➤ Type
IV	4	Enlist various Sampling techniques and methods of data collection	Sampling techniques and methods of data collection. * Sampling * Instruments-Questionnaire. Interview * Observation schedule, records, measurements * Reliability and validity or instruments.	<ul style="list-style-type: none"> • Chalkboard • Transparency 	<ul style="list-style-type: none"> ➤ Assignments ➤ Objectives ➤ Type
V	4	Explain the Analysis of Data	Analysis of Data: Tabulation * Classification and summarization * Presentation * Interpretation of data	<ul style="list-style-type: none"> • Chalkboard • Transparency • Power Point <p>Charts</p>	<ul style="list-style-type: none"> ➤ Assignments ➤ Unit tests, ➤ Essay type ➤ Short Answers
VI	4	Discuss the Communication of research findings	Communication of research findings * Writing Report: * Organizing materials for writing * Format of the report * Use of computers	<ul style="list-style-type: none"> • Chalkboard • Transparency 	<ul style="list-style-type: none"> ➤ Assignments ➤ Unit tests, ➤ Objectives ➤ Type
VII	8	Discuss the Measures of central tendency	B.INTRODUCTION TO STATISTICS * Descriptive Statistics. * Frequency Distribution –Types of measure – frequencies, class	<ul style="list-style-type: none"> • Chalkboard • Transparency 	<ul style="list-style-type: none"> ➤ Assignments ➤ Unit tests, ➤ Essay type

			interval, graphic methods of describing frequency. * Measures of central tendency – Mode, Median and mean. * Measures of variability : Range, standard deviation * Introduction to normal probability.	<ul style="list-style-type: none"> • Power Point Charts	<ul style="list-style-type: none"> ➤ Short Answers ➤ Objectives ➤ Type
VIII	4	Discuss Correlation	Correlation * Computation by rank difference methods * Uses of correlation co-efficient	<ul style="list-style-type: none"> • Chalkboard • Transparenc y 	<ul style="list-style-type: none"> ➤ Assignments ➤ Objectives Type
IX	4	Discuss Biostatistics	Biostatistics: Crude rates and standardized rates, ratio and estimation of the trends.	<ul style="list-style-type: none"> • Chalkboard • Transparenc y • Power Point 	<ul style="list-style-type: none"> ➤ Assignments ➤ Unit tests, ➤ Essay type
X	6	Explain the Introduction to computers in nursing	Introduction to computers in nursing * Introduction to computers and disk-operating system. * Introduction to word processing * Introduction to data base * Windows applications, word, excel, power point, multimedia. * Use of statistical packages. * Introduction to internet & use of electronic mail * Computer aided teaching and testing.	<ul style="list-style-type: none"> • Chalkboard • Transparenc y • Power Point 	<ul style="list-style-type: none"> ➤ Assignments ➤ Unit tests, ➤ Essay type

PRACTICUM

Students will conduct research project in small groups in selected areas of nursing and submit a report(Group studies may include studying of existing health practices, improved practices of nursing (procedures) health records, patient records and survey on nursing literature)

References:

1. Polit, D.F. & Beck CT, Nursing Research, Principles and Methods, 7th ed. Lippincott Williams & Wilkins, Philadelphia, 2003.
2. Polit Dennis and Hunglar B P, Nursing research principles and methods, 6th edition Lippincott, Philadelphia, 1999.
3. Laura A. Talbot, Principles and practice of nursing research, Mosby St. Louis 1995.
4. Dorothy Y B & Marie TH, Fundamentals of research in Nursing, 3rd ed. Jones & Bartlett Publishers, Boston, 2003.
5. Rao TB, Methods in Medical Research, 1st ed, Radha Rani Publishers, Guntur AP, 2002.
6. Smith, P Research Mindedness for Practice. An interactive approach for nursing and health care, Churchill Livingstone, New York, 1997
7. American Psychological Association publication manual. 2001.
8. Mahajan Methods in Bio statistics.
9. Treece E.W. & Treece JW: Elements of Research in Nursing, 3rd ed The CV Mosby Company St. Louis 1986.

DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT INTRODUCTION TO NURSING RESEARCH AND STATISTICS

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 10	10 x 1	10
2.	Long Answer Questions (LAQ) (Any 2 out of 3)	2 x 10	20
3.	Short Notes (4 out of 6) a) b) c) d) e) f)	4x5	20

Note :

1. MCQ : Each MCQ carries 1 mark.
2. Long Answer Questions : 3 questions will be given out of which , 2 have to be answered in Nursing Research.
3. Short Notes : 6 questions will be given out of which, 4 have to be answered.