

[LD 0212]

AUGUST 2013

Sub.Code:1312

B.SC., DIALYSIS TECHNOLOGY

SECOND YEAR

**PAPER II – COMMUNITY MEDICINE, BASIC PHYSICS,
INTRODUCTION TO GENETICS AND BASIC MEDICAL
ELECTRONICS**

Q.P. Code: 801312

Time: Three hours

maximum: 100 Marks

Answer All questions

I Elaborate on:

(3x10 =30)

1. Explain in detail about Hospital Waste Management
2. Mention about various sources of Water supply. Explain in detail about purification of Water on large scale and small scale
3. Describe Southern blotting mechanisms.

II. Write notes on:

(8 x 5 = 40)

1. Classification of waste
2. Gene and its units
3. Concept of Health and Disease
4. Generalized transduction
5. Hardness of water--special treatments
6. Genetic counseling
7. National Water supply and sanitation Programme
8. Social aspects of nutrition

III. Write short answers on:

(10 x 3 = 30)

1. Chemical Waste disposal
2. DNA fingerprinting
3. Segregation of Waste
4. Northern blot
5. Immunization Schedule
6. Restriction maps
7. Mid-day meal programme
8. Transformation
9. Water pollution
10. Define clone.

[LE 0212]

FEBRUARY 2014

Sub. Code: 1312

B.SC., DIALYSIS TECHNOLOGY

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INTRODUCTION TO GENETICS AND BASIC MEDICAL

ELECTRONICS

Q.P. Code: 801312

Time: Three hours

Maximum : 100 Marks

Answer all questions

I Elaborate on:

(3x10 =30)

1. Define Malnutrition. Explain the various methods of Nutritional status Assessment
2. Explain in detail about Gene cloning
3. Give a detail account on Polymerase Chain Reaction.

II. Write notes on:

(8 x 5 = 40)

1. Concept of Causation
2. Genetic foundations
3. Health Screening
4. DNA fingerprinting
5. Universal immunisation
6. Conjugation
7. Nutritional problem in public health
8. Water quality criteria and standards

III. Write short answers on:

(10 x 3 = 30)

1. Changing Pattern of Disease
2. Distinguish Prototroph and Auxotroph
3. Morbidity and Mortality
4. Complementation
5. Use of BMI to classify obesity
6. Western blotting
7. Balwadi Nutrition programme
8. Surveillance of drinking Water
9. Units of gene
10. Hybridization.

[LF 0212]

AUGUST 2014

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Time: Three hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 =30)

1. Occupational Hazards.
2. Merits and Demerits of satellite Communication.
3. Types of chromosomes.

II. Write notes on:

(8 x 5 = 40)

1. Medical Applications of X-Rays.
2. Levels of Prevention of Disease.
3. Immunization schedule.
4. Structure of RNA.
5. Functions of Primary Health Centre.
6. Genetic Counseling.
7. Maternal Child Health (MCH) Services.
8. Anemia.

III. Write short answers on:

(10 x 3 = 30)

1. Define -Polyuria, Polyphagia .
2. Expand – MMR.
3. Direct and Indirect Transmission.
4. Define Chromosomes.
5. Urine Test for Albumin.
6. Types of Carcinoma.
7. Define – Micturition.
8. Define – Community Health.
9. Explain-Genetheraphy.
10. Explain-Gene Deletion.

[LH 0815]

AUGUST 2015

Sub.Code :1312

B.Sc. DIALYSIS TECHNOLOGY

SECOND YEAR

PAPER II – COMMUNITY MEDICINE, BASIC PHYSICS,
INTRODUCTION TO GENETICS AND BASIC MEDICAL ELECTRONICS

Q.P. Code: 801312

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on: (3 x 10 =30)

1. Mention about various sources of Water supply. Explain in detail about purification of Water on large scale and small scale
2. Define Malnutrition. Explain the various methods of Nutritional status Assessment
3. Define primary health care. Describe in detail about the elements of primary health care.

II. Write notes on: (8 x 5 = 40)

1. Write a note on nutritional factors in causation of non-communicable disease.
2. Write a note on effects of smoking in health.
3. Describe a note on iceberg phenomenon of disease.
4. Describe the mechanism of disease transmission.
5. What is the difference between case control and cohort studies?
6. Write a note on Maternal and child health services.
7. Write a note on polymerase chain reaction (PCR).
8. Write a note on classification on wastes.

III. Short answers on: (10 x 3 = 30)

1. What is called DNA finger printing?
2. What is called northern blot?
3. What is the difference between rate and ratio?
4. Define Infant Mortality Rate.
5. Define counseling.
6. What is called gene therapy?
7. Name any three water pollutants.
8. What is called health screening?
9. What is called greenhouse effect?
10. What is the called convection and conduction?

[LI 0216]

FEBRUARY 2016

Sub.Code :1312

B.Sc. DIALYSIS TECHNOLOGY

SECOND YEAR

**PAPER II – COMMUNITY MEDICINE, BASIC PHYSICS,
INTRODUCTION TO GENETICS AND BASIC MEDICAL ELECTRONICS**

Q.P. Code: 801312

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 =30)

1. What is called a biomedical waste? Describe in detail about the classification, segregation and disposal of a biomedical waste.
2. Illustrate DNA and RNA. What are the types of RNA? Describe about mendelian disorders.
3. Draw the disaster management cycle. Write a note on disaster management.

II. Write notes on:

(8 x 5 = 40)

1. Tabulate the National Immunization Schedule.
2. Write a note on micronutrient problems of India.
3. Write a note on genetic counseling.
4. Write a note on levels of prevention.
5. Describe a note on health education.
6. Describe the purification of water in large scale.
7. Describe a note on occupational hazards.
8. What are the medical applications of Xrays?

III. Short answers on:

(10 x 3 = 30)

1. What is called morbidity and mortality?
2. Define BMI and write the formula.
3. Distinguish Prototroph and Auxotroph.
4. What is called hybridization?
5. What is called western blotting test?
6. Write the formula for Maternal mortality ratio.
7. What is called gene deletion?
8. What is called cloning in genetics?
9. Mention any three modifiable and non-modifiable risk factors.
10. What is called isolation in infectious disease epidemiology?

[LJ 0816]

AUGUST 2016

Sub.Code :1312

B.Sc. DIALYSIS TECHNOLOGY

SECOND YEAR

**PAPER II – COMMUNITY MEDICINE, BASIC PHYSICS, INTRODUCTION
TO GENETICS AND BASIC MEDICAL ELECTRONICS**

Q.P. Code: 801312

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 =30)

1. Describe the risk factors, prevention and control of diabetes in a population.
2. Explain the different levels of prevention. Describe the levels of prevention for chronic kidney disease.
3. Illustrate the steps of the disaster management cycle, using the example of floods as the disaster.

II. Write notes on:

(8 x 5 = 40)

1. Explain the meaning of incidence and prevalence with examples.
2. List universal precautions to be followed in health care settings.
3. Describe the methods used for health education of a small group.
4. Describe the risk factors for coronary heart disease.
5. Describe types of malnutrition with examples.
6. Explain segregation of biomedical wastes.
7. Explain hazards of biomedical wastes.
8. Explain the advantages and disadvantages of screening programmes.

III. Short answers on:

(10 x 3 = 30)

1. List two risk factors for cervical cancer.
2. Two dietary recommendations for prevention of hypertension.
3. List four methods used for health education for large group audiences.
4. Name two types of analytical epidemiological studies.
5. Name a test used to screen for cervical cancer.
6. Name two indicators used to measure obesity.
7. List two methods used to screen for diabetes.
8. List four examples of diseases spread through the respiratory route.
9. List four disease conditions associated with low physical activity.
10. Name two risk factors for COPD (chronic obstructive pulmonary disease).

[LK 0217]

FEBRUARY 2017

Sub.Code :1312

B.Sc. DIALYSIS TECHNOLOGY

SECOND YEAR

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Q.P. Code: 801312

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 =30)

1. Describe the risk factors, prevention and control of chronic kidney disease in a population.
2. Explain the importance, methods, content and barriers to health education regarding chronic non communicable diseases.
3. Classify and describe the nutritional disorders affecting adults in India. Explain the causes for two of these nutritional disorders.

II. Write notes on:

(8 x 5 = 40)

1. Biomedical waste segregation and disposal
2. Disaster response.
3. Describe advantages and disadvantages of lectures as a method of health education.
4. Describe the risk factors for stroke.
5. Water borne diseases.
6. Obesity and its complications.
7. Occupational hazards faced by health care workers.
8. Secondary prevention of diabetes.

III. Short answers on:

(10 x 3 = 30)

1. What is primary prevention?
2. Top four risk factors for non-communicable diseases
3. Which is the study design which is followed to test the efficacy of a new drug?
4. Name the epidemiological study design in which incidence of disease in exposed individuals is compared to incidence in unexposed.
5. Define hypertension.
6. Name two chronic respiratory diseases.
7. List two hazards of improper disposal of biomedical wastes.
8. List two examples of diseases spread through direct contact.
9. List four disease conditions associated with unbalanced diets.
10. Name two risk factors for breast cancer.

B.Sc. DIALYSIS TECHNOLOGY

SECOND YEAR

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Q.P. Code: 801312

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain prevention and care of Diabetes.
2. Describe the classification and sources of health care waste.
3. Define the meaning and explain components of Epidemiology.

II. Write notes on:

(8 x 5 = 40)

1. Explain the communication process.
2. Aims and objectives of Health Education.
3. Mechanism of Dialysis.
4. Non-modifiable and modifiable risk factors of Hypertension.
5. Chemical waste disposal.
6. Draw the anatomical structure of Nephron.
7. Give symptoms of Kidney Disease.
8. Write down about Channels of communication.

III. Short answers on:

(10 x 3 = 30)

1. Define Dwell time.
2. Renal Diet plan.
3. Meaning of reverse Osmosis.
4. Give two risk factors of Cardiovascular diseases.
5. Land disposal method.
6. Write the symptoms of Anemia.
7. Two measures of prevention of Hypertension.
8. Use of oral rehydration therapy.
9. Meaning of morbidity.
10. Define Mitigation.
