

[LB 0212]

AUGUST 2012

Sub. Code: 1904

B.Sc. - RADIOTHERAPY TECHNOLOGY

FIRST YEAR

PAPER IV – GENERAL PRINCIPLES OF HOSPITAL PRACTICES

Q.P. Code : 801904

Time : Three hours

Maximum : 100 marks

(180 Mins)

Answer ALL questions in the same order.

I. Elaborate on:

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|---|----|----|
| 1. Describe on detail what you will do if a patient becomes unconscious and stops breathing in the department. | 7 | 20 | 10 |
| 2. If a patient with an infective lung disease has to be treated with radiotherapy, what steps will you take to protect yourself and to prevent spread of infection? | 7 | 20 | 10 |
| 3. Describe contrast agents used in the radiotherapy department and their applications. What are the risks involved in their usage? | 7 | 20 | 10 |

II. Write Notes on:

- | | | | |
|---|---|----|---|
| 1. Steps for application of a sterile dressing. | 4 | 10 | 5 |
| 2. Write in brief about handling an accident in Radiotherapy department. | 4 | 10 | 5 |
| 3. Describe in brief the responsibility of a radiographer towards a patient. | 4 | 10 | 5 |
| 4. List the items in a resuscitation trolley, their use and how do you keep a check on availability. | 4 | 10 | 5 |
| 5. Sterilization techniques and how do you sterilize brachytherapy applicators used for gynaecologic brachytherapy. | 4 | 10 | 5 |
| 6. Care of a child being given radiotherapy under anaesthesia. | 4 | 10 | 5 |
| 7. What is negligence? What is the responsibility for negligence? | 4 | 10 | 5 |
| 8. What steps will you take if you see a patient undergoing radiotherapy has a radiation induced reaction. | 4 | 10 | 5 |

III. Short Answers on:

- | | | | |
|--|---|---|---|
| 1. Steps in transferring a patient from the wheel chair to the couch and back. | 1 | 5 | 2 |
| 2. Shifting of patient with a brachytherapy implant from stretcher to treatment couch. | 1 | 5 | 2 |
| 3. Preparation of a patient for Intravenous Pyelogram (IVP). | 1 | 5 | 2 |
| 4. Rescheduling of appointments in the event of a treatment machine breakdown. | 1 | 5 | 2 |
| 5. Care of patient undergoing radiation with a nasogastric tube. | 1 | 5 | 2 |
| 6. Write a short note on inventory of immobilization devices. | 1 | 5 | 2 |
| 7. Professional conduct in the work place. | 1 | 5 | 2 |
| 8. Colostomy cure during radiotherapy. | 1 | 5 | 2 |
| 9. Importance of treatment records in Radiotherapy. | 1 | 5 | 2 |
| 10. Care of patient with tracheostomy on radiation. | 1 | 5 | 2 |

[LD 0212]

AUGUST 2013

Sub.Code :1904

B.Sc. RADIOTHERAPY TECHNOLOGY

FIRST YEAR

PAPER IV – GENERAL PRINCIPLES OF HOSPITAL PRACTICES

Q.P. Code: 801904

Time: Three hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

3 x 10 = 30

1. Discuss your department statistics, patient load, common treatment procedures.
2. If a patient becomes unconscious in your department how will you manage?
3. What is shock, classify and how will you manage shock

II. Write notes on

8 x 5 = 40

1. How will you record blood pressure, temperature? What is the significance?
2. Pathological fracture
4. How will you minimize waiting time?
5. How do you apply a splint?
6. Gram positive bacteria
7. Describe methods of sterilization
8. Managing a stretcher patient
9. Professional attitude towards doctors

III. Short answers on

10 x 3 = 30

1. Cross infection
2. Bradycardia
3. Name 3 drugs used by diabetics
4. What is the normal pulse and respiratory rate give their significance
5. How will you monitor renal functions?
6. Mechanism of inflammation
7. Describe the tracheostomy tube
8. Care of patient with gynaec intracavitary application
9. What are neutropenia, thrombocytopenia and anemia?
10. Radiotherapy chart

[LE 0212]

FEBRUARY 2014

Sub.Code :1904

B.Sc. RADIOTHERAPY TECHNOLOGY

FIRST YEAR

PAPER IV – GENERAL PRINCIPLES OF HOSPITAL PRACTICES

Q.P. Code: 801904

Time: Three hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

3 x 10 = 30

1. Discuss your professional attitude towards your doctors and your patients.
2. How will you manage patients coming in wheel chair and stretcher?
3. Classify bone fractures and briefly describe the first aid you will give

II. Write notes on:

8 x 5 = 40

1. How will you record pulse and respiratory rate and what is its significance?
2. Traumatic fracture
3. Describe the various facilities in your organization
4. Management of patient with asphyxia
5. Describe bacterial infections
6. Central sterilization department and its functions
7. Circulatory shock
8. How will you maintain hygiene in your department?

III. Short answers on:

10 x 3 = 30

1. Infection
2. Name 3 drugs used in hypertension
3. How will you monitor a diabetic patient?
4. Gram negative bacteria
5. Inflammatory signs
6. Hemorrhage
7. Splint
8. Suction apparatus
9. Significance of checking the weight of patient under radiation
10. Care of patient with interstitial tongue implant

B.Sc. RADIOTHERAPY TECHNOLOGY
FIRST YEAR
PAPER IV – GENERAL PRINCIPLES OF HOSPITAL PRACTICES
Q.P. Code: 801904

Time: Three hours

Maximum : 100 Marks

Answer All Questions

I. Elaborate on: **(3x10=30)**

1. Describe in detail what you will do if a patient after receiving IV contrast injection, stops breathing.
2. If a patient with an infected malignant ulcer has to be treated with radiotherapy, what steps will you take to protect yourself and to prevent spread of infection?
3. Why is sterilization of instruments and equipment necessary? Describe the various sterilization techniques used for the instruments and equipment used in the radiotherapy department.

II. Write notes on: **(8x5=40)**

1. What are the various steps you will undertake when treating a patient with radiotherapy who has low white blood cell and low neutrophils?
2. Write in brief about storage of special drugs in the Radiotherapy department.
3. Describe in brief the responsibility of a radiographer towards women undergoing radiotherapy.
4. List the items in a resuscitation trolley, their use and how do you keep a Check on availability.
5. As a radiographer, if a treatment machine breaks down, what is your responsibility towards patients undergoing radiation in that machine.
6. Care of a child being given radiotherapy under anaesthesia.
7. What is negligence? What is the responsibility for negligence?
8. What steps will you take if you see a patient undergoing radiotherapy has bleeding while undergoing radiotherapy?

III. Short answers on: **(10x3=30)**

1. Steps in transferring a paraplegic patient from the stretcher to the couch and back.
2. Importance of a weekly check up of patients undergoing radiotherapy.
3. Preparation of a patient with esophageal cancer for barium swallow.
4. How can a radiographer minimize waiting time for radiation treatment?
5. Care of patient undergoing radiation with a brachytherapy interstitial implant.
6. Write a short note on inventory of immobilization devices.
7. Professional conduct in the work place towards colleagues.
8. Colostomy care during radiotherapy.
9. Medicolegal importance of maintaining accurate radiation therapy records.
10. Care of patient with tracheostomy on radiation.

[LG 0215]

FEBRUARY 2015

Sub.Code :1904

B.Sc. RADIOTHERAPY TECHNOLOGY

FIRST YEAR

PAPER IV – GENERAL PRINCIPLES OF HOSPITAL PRACTICES

Q.P. Code: 801904

Time: Three Hours

Maximum : 100 Marks

Answer All Questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe in detail what you will do if a patient undergoing radiotherapy develops convulsions on the treatment couch.
2. If a patient with an infected malignant ulcer on the face has to be treated with radiotherapy, what steps will you take to protect yourself and to prevent spread of infection?
3. Describe the resuscitation trolley in the Radiotherapy Simulator, where contrast agents are injected. How will ensure it is functioning & describe the checks you will be required to do for the same?

II. Write notes on:

(8 x 5 = 40)

1. Steps for handling a patient with a reaction to antibiotic dose.
2. Write in brief about reporting wrong radiotherapy treatment in a patient.
3. Describe in brief the responsibility of a radiographer towards a patient.
4. Procedure of fixing a face mask and starting Oxygen from an Oxygen tank for a lung cancer patient who has developed mild breathing difficulty.
5. Describe hand hygiene before & after positioning a patient on the treatment couch.
6. Care of a child being given radiotherapy under anaesthesia.
7. What is negligence? What is the responsibility for negligence?
8. What steps will you take if you see a patient undergoing radiotherapy has a radiation induced oral mucosal reaction with mild bleeding?

III. Short answers on:

(10 x 3 = 30)

1. Steps in transferring a patient from the wheel chair to the couch and back.
2. Shifting of patient with a brachytherapy implant from stretcher to treatment couch.
3. Preparation of a patient for Intravenous Pyelogram (IVP).
4. Rescheduling of appointments in the event of a treatment machine breakdown.
5. Care of patient undergoing radiation with a nasogastric tube.
6. Write a short note on inventory of immobilization devices.
7. How do you maintain interpersonal relationship and Professional conduct in the work place?
8. Colostomy care during radiotherapy.
9. Importance of maintaining statistics in the Radiotherapy treatment machine and the Department.
10. Care of patient with tracheostomy on radiation.
