8 (22)

Rajiv Gandhi University of Health Sciences

Second Year B.Sc. (Physiotherapy)
Degree Examination – May 2007

[Max. Marks: 80]

PHARMACOLOGY
(OS, RS & RS2)

QP Code: 2158

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY (Answer any TWO) — 2 X 10 = 20 Marks

1. Classify skeletal muscle relaxants. Write briefly the mechanism of action, therapeutic uses and adverse effects of d-tubocuarine.
2. Enumerate the anti anginal drugs. Write the pharmacology of nitrites and nitrates.
3. Enumerate the amino glycoside antibiotics. Write the pharmacokinetic characteristics of these antibodies, therapeutic uses and adverse effects of any one of them.

SHORT ESSAY (Answer any EIGHT) — 8 X 5 = 40 Marks

4. Drug antagonism
5. Methotrexate
6. Beta blockers – therapeutic uses and adverse effects
7. Therapeutic uses and adverse effects of atropine sulphate
8. Drug allergy
9. Frusemide
10. Organophosphorous compound poisoning and its management
11. Methods to prolong the duration of action of drugs
12. Metronidazole
13. Antidepressant drugs

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SHORT ANSWERS — 10 X 2 = 20 Marks

14. Name four topically used anti-fungal agents
15. Name two important uses and two adverse effects of ciprofloxacin
16. Succinylcholine apnoea and its treatment
17. Name any two adverse effects and two uses of aspirin
18. Name a drug of choice for treatment of status epilepticus with route of administration
19. What is teratogenicity? Name any two drugs that cause teratogenicity
20. Name four drugs used in glaucoma
21. Name two drugs used in acute morphine poisoning and two contra indications
22. Name four primary drugs used in tuberculosis
23. Write four uses of Diazepam

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Rajiv Gandhi University of Health Sciences

Second Year B.P.T Degree Examination – May 2007

[Max. Marks: 80]

Time: 3 Hours]

PATHOLOGY & MICROBIOLOGY
(OS, RS & RS2)

Your answer shall be specific to question asked. Draw neat and labelled diagrams wherever necessary.

Use separate answer books for section A and section B.

QP Code: 2159 - Section A - PATHOLOGY [40 Marks]

LONG ESSAY (Answer any ONE) — 1 x 10 = 10 Marks

1. Define and classify edema. Describe the pathogenesis and pathology of anasarca.
2. Define Neoplasia. Classify tumors. Add a note on differences between benign and malignant tumors.

SHORT ESSAY (Answer any FOUR) — 4 x 5 = 20 Marks

3. C.S.F. analysis.
4. Megalobiastic anaemia.
5. Rodent ulcer.
6. Nephrotic syndrome.
7. Gout.

SHORT ANSWERS — 5 x 2 = 10 Marks

8. Hyaline change
9. Hyperplasia.
10. Aschoff body.
11. Fate of thrombus.
12. Grannuloma.

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QP Code: 2160 - Section B - MICROBIOLOGY [40 Marks]

Use separate answer book

LONG ESSAY (Answer any ONE) — 1 x 10 = 10 Marks

1. Describe the morphology and laboratory diagnosis of Corynebacterium diphtheriae.
2. Draw a neat diagram of bacterial cell. Add a note on spore.

SHORT ESSAY (Answer any FOUR) — 4 x 5 = 20 Marks

3. Mantoux test
4. Antiseptics
5. ADIS
6. Hepatitis B virus.
7. Cryptococcus.

SHORT ANSWERS — 5 x 2 = 10 Marks

8. Name 4 agents causing dysentery
9. Name four Gram-negative bacilli.
10. Stool examination.
11. Name 4 disinfectants.
12. Blood culture.

Rajiv Gandhi University of Health Sciences

Second Year B.P.T. Degree Examination – May 2007

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Time: 3 Hours] [Max. Marks: 100]

THERAPEUTICS
(OS, RS & RS2)

QP Code: 2161

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY (Answer any TWO) **2 X 10 = 20 Marks**

1. Define aerobic exercise. What are the principles of aerobic exercise? List the effects of exercise for health
2. List the different gait deviations. Discuss any three in detail
3. Explain the starting positions. Describe the muscle work of kneeling, hanging and sitting

SHORT ESSAY (Answer any TWELVE) **12 X 5 = 60 Marks**

4. Explain rhythmic stabilization in PNF
5. List the uses of massage
6. Principles in relaxation
7. Write the merits of suspension therapy
8. Write a note on partial weight bearing crutch gait
9. Write on breathing exercise. Explain pursed-lip breathing
10. Definition of tightness with signs and symptoms. Discuss stretching for quadriceps tightness with home exercise programme
11. Explain how to do the hand muscle strengthening
12. What are the contraindications for joint mobilization and define joint mobilization
13. Role of transfer techniques in mat work
14. Explain the principles, merits and demerits of manual muscle testing
15. Explain the limb length and limb girth measurement in lower limb
16. Write about the coughing and huffing exercises
17. Frenkel's exercise

SHORT ANSWERS **10 X 2 = 20 Marks**

18. Define De-lorm's technique
19. What is postural drainage? Give two indications
20. Give the use of crawl position
21. Give the importance of warm-up period in aerobic exercise
22. Differentiate between anatomical and physiological movement
23. Hydrotherapy - merits
24. Two uses of assisted exercise
25. Mention two uses of overhead pulley
26. Types of walking aids
27. Therapeutic gymnasium

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Rajiv Gandhi University of Health Sciences

Second Year B.P.T. Degree Examination – May 2007

Time: 3 Hours] [Max. Marks: 100]

ELECTROTHERAPY
(OS, RS & RS2)

QP Code: 2162

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY (Answer any TWO) **2 X 10 = 20 Marks**

1. What type of current will you select for the muscle stimulation having chronaxie value of 10 milli seconds and give the reason. Explain therapeutic effects of the same current stimulation
2. What is laser? Discuss about the types of laser. Write about indications, contraindications and therapeutic effects of mid-laser
3. Define electrode. Explain in detail about the types of electrodes and various methods of electrode arrangements in low and medium frequency stimulation

SHORT ESSAY (Answer any TWELVE) **12 X 5 = 60 Marks**

1. Define F-G test. Write the importance, advantages and disadvantages of it.
2. Discuss briefly about electromyography
3. Define medium frequency current. Discuss therapeutic effects of the same
4. Describe about hydro collateral packs
5. Indications and contraindications for wax bath
6. What is contrast bath? Write the indications and therapeutic effects of the same
7. List out the contraindications and dangers of I.R.R. therapy with reliable reasons for each
8. P.U.V.A.
9. Explain physiological effects of U.V.R.
10. Methods of S.W.D. application

OR

10. Write in brief about propagation of action potential
11. Define direct current. Explain the effects of direct current in tissue
12. Write about electrode tissue interface
13. How will you improve the function of deltoid muscle by electrical stimulation



SHORT ANSWERS **10 X 2 = 20 Marks**

1. All or none law
2. Define acoustic impedance
3. Vitamin D production by U.V.R.
4. Indications for acetic acid iontophoresis
5. Define micro current and its uses
6. Properties of laser
7. Fibrillation potential
8. What is H.V.P.G.C.?
9. Far and near field in ultrasound
10. Parameters of high T.E.N.S.