

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - April 2014

Time: 3 Hours

Max. Marks: 40 Marks

Pathology **Q.P. Code : 2708**

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

(Note : Both QP Codes 2708 and 2709 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Define thrombus, discuss aetiopathogenesis and fate of thrombus.
2. Define anaemia, classify anaemias and write laboratory diagnosis of Iron deficiency anaemia.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Pathological calcification.
4. Classification of Leprosy.
5. Infarction.
6. Gall stones.
7. Myxedema.

SHORT ANSWERS

5 x 2 = 10 Marks

8. Eosinophilia.
9. Types of cirrhosis.
10. Mention four complications of Diabetes Mellitus.
11. Mention types of Hypersensitivity reactions.
12. Atrophy.

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Time: 3 Hours

Max. Marks: 40 Marks

Microbiology

Q.P. Code : 2709

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

(Note : Both QP Codes 2708 and 2709 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Define and classify hypersensitivity reactions. Discuss type-1 hypersensitivity.
2. Define Pyrexia of unknown origin. Enumerate the organisms causing it. Discuss the laboratory diagnosis of typhoid fever.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Prophylaxis against tetanus.
4. ELISA.
5. Antimicrobial susceptibility testing.
6. Gonorrhoea.
7. Cryptococcus neoformans.

SHORT ANSWERS

5 x 2 = 10 Marks

8. Define adjuvant and give two examples.
9. Name four bacteria causing urinary tract infections.
10. Interferons.
11. Quellung reaction.
12. Mention two differences between endotoxin and exotoxin.

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Time: Three Hours

Max. Marks: 80 Marks

PHARMACOLOGY (RS - 3 & RS - 4)

Q.P. CODE: 2710

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

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Classify Non-Steroidal anti-inflammatory drugs. Write the mechanism of action, adverse effects and therapeutic uses of aspirin.
2. Classify beta-blockers. Write the therapeutic uses and adverse of beta-blockers.
3. Classify anticoagulants. Write the mechanism of action, therapeutic uses and adverse effects of warfarin.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Transdermal patches
5. Osmotic diuretics
6. Nifedipine
7. Tricyclic antidepressants
8. Carbamazepine
9. Metformin
10. Drug induced parkinsonism.
11. Dopamine
12. Statins
13. Antidote for Organophosphorus poisoning - Explain its mechanism.

SHORT ANSWERS

10 x 2 = 20 Marks

14. What is enzyme induction? Enlist two enzyme inducers.
15. Mention two drugs with high plasma protein binding capacity.
16. Mention the antidote for heparin toxicity with its rationale.
17. Mention two drugs used in the treatment of Systemic Lupus Erythematosus.
18. Mention four drugs used in H. Pylori induced peptic ulcer.
19. Mention two uses and two adverse effects of digoxin.
20. Mention two drugs used in acute bronchial asthma.
21. Mention four uses of corticosteroids.
22. What is teratogenicity? Write two examples.
23. What is malignant hyperthermia? Mention one drug which causes it.

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Time: Three Hours

Max. Marks: 100 Marks

EXERCISE THERAPY

(RS – 3 & RS - 4)

Q.P. CODE: 2711

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

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Describe Proprioceptive Neuromuscular facilitation.
2. Describe the physiology of balance and the components of balance.
3. Explain relaxation and write about Jacobson's relaxation.

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. Manual muscle testing for deltoid muscle
5. Tests for sensation
6. Classification of passive movements
7. Write about open chain and closed chain exercise.
8. Technique of suspension therapy for knee flexion and extension
9. Use of Frenkles exercise and its progression
10. Merits and demerits of Hydrotherapy
11. Write about Mat exercises.
12. Indications and contraindications of joint mobilization
13. Principles and technique of Free exercises
14. Evaluation of aerobic capacity
15. Technique of Goniometric measurement for Ankle Joint
16. Write in brief about concentric and eccentric exercise with examples.
17. Write in brief about the angle of pelvic inclination.

SHORT ANSWERS

10 x 2 = 20 Marks

18. Speed Test
19. Brief Resisted Isometric Exercise
20. Petrissage
21. Gutter Crutch
22. Define equilibrium.
23. SAID Principle
24. Disadvantages of group therapy
25. Apparent Limb length
26. Active and Inactive posture
27. Two tests for inco-ordination.

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Time: Three Hours

Max. Marks: 100 Marks

ELECTROTHERAPY

(RS-3 & RS-4)

Q.P. CODE: 2712

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Classify Infra Red generators, Explain the production and effects of various types.
2. Describe the production of shortwave diathermy and explain its various effects.
3. Define faradic current. Explain the physiological and therapeutic effect faradic current.

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. Nerve conduction velocity.
5. Therapeutic uses of whirl pool bath.
6. Explain various method of application of Cryotherapy.
7. Indication and contraindication for microwave diathermy.
8. Various parameter of dosage in ultrasound.
9. Physiological and therapeutic effects of Russian current.
10. Define electricity and its types.
11. Dangers and precaution for shortwave diathermy.
12. Explain contrast bath and its uses.
13. Physiological effects of high voltage pulsed galvanic stimulation.
14. Explain the procedure and interpretation of SD Curve test.
15. Fluidotherapy.
16. Define phonophoresis and method of application.
17. Define shock give an account of prevention.

SHORT ANSWERS

10 x 2 = 20 Marks

18. Define Joule's law.
19. What is salutatory conduction?
20. Define Rheobase.
21. Define inverse square law.
22. Beat frequency.
23. Drugs used for iontophoresis.
24. Define motor unit.
25. Skin impedance.
26. Define Cavitations.
27. Define collimation.

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Max. Marks: 80 Marks

RESEARCH METHODOLOGY & BIOSTATISTICS

(RS-3 & RS-4)

Q.P. CODE: 2713

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Enumerate the problems encountered by researchers in India.
2. Define mean, median and mode. Discuss the merits and demerits of mean, median and mode.
3. What is a test of hypothesis? Explain the need for tests of hypothesis in physiotherapy.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. What are the features of a good research design?
5. What is stratified random sampling technique? Explain the procedure of selection of samples using stratified random sampling.
6. Define coefficient of variation. Explain the circumstances under which this is used as a measure of dispersion.
7. What is normal distribution? Mention its important properties.
8. Describe briefly the different methods of data collection.
9. Explain the role of computers in Physiotherapy research.
10. Briefly explain the basic principles of experimental designs.
11. With the help of a suitable illustration describe how pie diagram can be drawn for the discrete data.
12. Explain the techniques of developing measurement tools.
13. What are the underlying assumptions of one-way analysis of variance. Explain briefly under what circumstances ANOVA is applied in data analysis.

SHORT ANSWERS

10 x 2 = 20 Marks

14. Distinguish between inclusive and exclusive method of class intervals in frequency distribution.
15. Distinguish between standard deviation and standard error.
16. What is sampling frame?
17. Distinguish between qualitative and quantitative variables. Give one example to each.
18. Define level of significance and confidence level.
19. Define the probability of an event.
20. What is target population? Give an example.
21. What is randomization?
22. What is the necessity of defining the research problem?
23. What is sampling distribution?
