

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - September 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 and classify neoplasia. Discuss the differences between benign and malignant tumour.
2. Define anaemia, classify anaemias and write laboratory diagnosis of Iron deficiency anaemia.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Phagocytosis
4. Dystrophic calcification
5. Infarction
6. Gall stones
7. Thrombosis

SHORT ANSWERS

5 x 2 = 10 Marks

8. Tetralogy of fallot
9. Granuloma
10. Mention four complications of Diabetes Mellitus.
11. Lobar Pneumonia
12. Hypertrophy

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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. Classify hypersensitivity. Describe anaphylaxis.
2. Write in detail about laboratory diagnosis of enteric fever add a note on its prophylaxis.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Normal flora of human body
4. Hot air oven
5. Tetanus
6. Laboratory diagnosis of Urinary Tract Infection
7. Cell culture

SHORT ANSWERS

5 x 2 = 10 Marks

8. Bacterial Capsule
9. Name four opportunistic infections in AIDS.
10. Name four antifungal agents.
11. Black water fever
12. Enriched Media

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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 analgesics. Write mechanism of action, uses and adverse effects of morphine.
2. Enumerate drugs for congestive cardiac failure. Describe the actions, uses and adverse effects of glycosides.
3. Enumerate oral antidiabetic. Write the mode of action and adverse effects of any two of them.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Write about therapeutic uses of aspirin
5. Nifedipine
6. Drug dependence
7. L-dopa
8. Bronchodilators
9. Write short note on antidepressants
10. Classify the drugs used in peptic ulcer
11. Lignocaine
12. Rifampicin
13. Sources of drugs

SHORT ANSWERS

10 x 2 = 20 Marks

14. Define pharmacodynamics
15. Write four uses ACE inhibitor
16. Adverse effects of Nitrates
17. Mention four uses of adrenaline
18. Name four uses of gentamicin
19. Give the therapeutic uses of neostigmine
20. Mention the drug used in spasticity
21. List anticholinesterases
22. Mention four uses of vitamin D
23. Anabolic steroids

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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. Write an essay on Aerobic exercises
2. Define Anthropometry. Explain principles, techniques uses & limitations of Anthropometric measurements
3. What are the principles & grades of mobilization? Explain the techniques of mobilization for shoulder joint

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. Explain the limb length measurement in detail
5. Techniques of massage manipulation
6. Write a note on Mulligan technique of joint mobilization
7. What are the principles & techniques of Hydrotherapy
8. Tests of sensation
9. Define inco-ordination, what are the non-equilibrium tests of co-ordination
10. Write a note on pulmonary Function tests
11. Explain the technique of strengthening of elbow flexors from grade 1 to grade 3
12. Dynamic power test
13. Write a note on Mitchel's technique of relaxation
14. Principles & benefits of Asanas
15. Advantages & disadvantages of group exercises
16. Functional re-education
17. Explain the principles of goniometry & it's technique of measurement

SHORT ANSWERS

10 x 2 = 20 Marks

18. Mention any 2 derived positions from sitting
19. Define 10 RM
20. Define work & endurance
21. Differentiate between spasticity & tightness
22. Give 2 examples each for open chain & closed chain exercises
23. What is "break test"?
24. Name 2 uses of gutter crutch
25. Free exercises
26. Name 2 types of resisted exercises
27. Name 2 therapeutic effects of exercise in water

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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. Write in detail about the physiological and therapeutic effects, indications and contraindications of interrupted galvanic current.
2. Define Ultra Sound therapy. Explain principles and production of ultra sound. Add a note on methods of application for the same.
3. Describe the procedure for plotting S-D curve. Explain uses of S-D curve in electro diagnosis.

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. Explain principles and production of LASER.
5. Explain indications and contraindications of contrast bath
6. Uses of IFT in management of stress incontinence
7. Define acupuncture TENS. Explain its mechanism for pain modulation
8. Uses of biofeedback in physiotherapy
9. Explain pain gate control theory
10. Describe physiological and therapeutic effects of Russian currents
11. Explain thermal and non-thermal effects of ultrasound
12. Explain anodal galvanism
13. Describe physiological and therapeutic effects of cryotherapy
14. Explain production and indications of MWD
15. Explain various methods of application of wax therapy
16. Explain physiological and therapeutic effects of UVR
17. Define electric shock. Explain methods for preventing shock

SHORT ANSWERS

10 x 2 = 20 Marks

18. F-G test
19. Define motor point
20. Chronaxie
21. Define amplitude modulated frequency
22. Give two uses of EMG
23. Define duty cycle
24. Define sinusoidal current
25. What is piezo electric effects?
26. What is PUVA
27. Define saltatory conduction

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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. Explain the principles of experimental design
2. Discuss about the characteristics of sample and population
3. Compute Mean, Median and Mode for the following data
Duration of Hospital Stay (Days): 0-4 4-8 8-12 12-16 16-20
Number of Patients 2 4 8 5 1

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Explain about variables and levels of measurement
5. Briefly mention the problem accounted in research
6. Explain the properties of normal distribution curve
7. Define standard deviation and state the steps in computing standard deviation
8. Explain about hypothesis
9. Explain about ANOVA
10. Discuss about questionnaire and schedule
11. Explain about measurement scales
12. Mention the characteristics of good research
13. Research methods and methodology

SHORT ANSWERS

10 x 2 = 20 Marks

14. Qualitative research
15. Nominal and ordinal data
16. Statement of the research problem
17. Pie diagram
18. Skewness
19. Kurtosis
20. Probability
21. Median
22. Need for sampling
23. Computer in research
