

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - AUG/SEP 2016

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 tumor.
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. Haemophilia
7. Thrombosis

SHORT ANSWERS

5 x 2 = 10 Marks

8. Factors affecting wound healing
9. Granuloma
10. Mention four complications of Diabetes Mellitus.
11. Hyperparathyroidism
12. Hypertrophy

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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. Write in detail about type I hypersensitivity with examples.
2. Draw a neat labeled diagram of bacterial cell. Discuss bacterial spore in detail.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Blood culture
4. Hot air oven
5. Immunoglobulins
6. Antiviral agents
7. ELISA

SHORT ANSWERS

5 x 2 = 10 Marks

8. Mantoux test
9. Name four gram negative bacteria
10. DPT vaccine
11. Name any two superficial fungal infections
12. Quellung reaction

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II Year B.P.T. Degree Examination – SEP 2016

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

08/09/16
Afternoon
8-12

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Explain Starting Positions In Detail with the muscle activity for each.
2. Explain the principles of aerobic exercise training. Mention the effects of this training on the various systems of the body.
3. Define massage. Classify massage with indications and contraindications.

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. Testing for superficial & deep sensations
5. Describe 5 principles of PNF technique
6. Types of active movements
7. Give 5 limitations of goniometry
8. Types of suspension therapy
9. Give 5 principles of Manual Muscle Testing (MMT)
10. Describe the stretching technique for hamstring tightness
11. Describe limb length measurement techniques in upper limb
12. List the types of walking aids with their uses
13. Define passive movement. Explain the types of passive movement
14. Explain Anthropometric measurements
15. Define functional re-education and mention the stages from lying to sitting
16. Describe the types of muscle contraction with examples
17. Explain the methods of progressive strength training

SHORT ANSWERS

10 x 2 = 20 Marks

18. What is Ballistic Stretching?
19. What are the advantages of Mat exercises?
20. Give 2 uses of massage
21. Describe 2 uses of goniometry
22. Give 2 advantages of endurance exercise
23. Give 2 benefits of practicing Asanas
24. Give 2 uses of treadmill
25. Give 2 differences between eccentric contraction and stretching
26. What is 10 RM?
27. What is BRIME?

MGM'S
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AURANGABAD.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – SEP 2016

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. Define pain. Explain the modulation of pain through pain gate control theory. Add a note modulation of pain by TENS.
2. Define Ultra Sound. Explain the principle and production of Ultra Sound.
3. Write in detailed about the physiological effects, indications and contraindications for interrupted direct current.

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. Explain indications and contraindications of MWD
5. Give the technique of Iontophoresis for hyperhydrosis of hand
6. Explain the procedure for training intrinsic foot muscles with faradic foot bath
7. Describe the instrumentation for neuromuscular electrical stimulation.
8. Explain production of SWD
9. Explain indications and contraindications of contrast bath.
10. Define biofeedback. Explain the uses of biofeedback in physiotherapy.
11. Define IFT. Explain uses of IFT in management of stress incontinence.
12. Describe construction and types of transformer
13. Physiological and therapeutic effects of paraffin wax therapy
14. Explain propagation of nerve impulses during electrical stimulation
15. Explain physiological effects of diadynamic currents
16. Explain indications and contraindications of cryotherapy
17. Write a note on microcurrents.

SHORT ANSWERS

10 x 2 = 20 Marks

18. Define F-wave
19. Uses of fuse
20. Define burst TENS
21. What is PUVA?
22. Classify pain fibers
23. Mention the properties of LASER
24. What is near and far field?
25. What is cross fire techniques?
26. Define sinusoidal currents
27. Define electromagnetic spectrum

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II Year B.P.T. Degree Examination - SEP - 2016

Time: Three Hours

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. Define sampling. Explain different types of sample design.
2. Explain measures of central tendency.
3. Define research design. Explain different research designs.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. What are the methods of data collection?
5. Null and alternative hypotheses
6. Uses of t-test
7. Explain primary data collection
8. Define variable. Explain briefly its type
9. Scales of measurement
10. Analysis of variance. (ANOVA)
11. Features of a good research design
12. Characteristics of statistics
13. Difference between research method and methodology

SHORT ANSWERS

10 x 2 = 20 Marks

14. Define mean
15. Nominal scale
16. Retrospective study
17. Binomial distribution
18. Cluster sampling
19. Dependent and independent variable
20. Cumulative frequency curve
21. Editing in processing of data
22. Chi-square test
23. Skewness

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