

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Bachelor of Physiotherapy, Second Year Semester-III

March-2021 Examination.

TIME - 3 HRS

MAX MARKS:100

EXERCISE THERAPY

Q.P. CODE: B3060

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

LONG ESSAY (Answer any Two)

2 X 10 = 20 Marks

1. Write the indications and determinants of stretching. Give the method of stretching hip flexors.
2. Describe the physiology of balance and write static & dynamic balance training.
3. Explain relaxation and write about Jacobson's relaxation.

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

4. Describe the Manual muscle testing for biceps muscle
5. What are the tests for sensation
6. Write the Classification of passive movements and its uses.
7. Write about open chain and closed chain exercise.
8. Discuss the technique of suspension therapy for knee flexion and extension
9. What are the Uses of Frenkles exercise and give its progression
10. Write the Merits and demerits of Hydrotherapy
11. Write the indications and uses of Mat exercises.
12. Discuss the Indications and grades of joint mobilization
13. Principles and technique of Free exercises
14. How to evaluate of aerobic capacity
15. Write the technique of Goniometric measurement for Ankle Joint

SHORT ANSWER (Answer any Ten)

10 X 3 = 30 Marks

16. Define Speed Test
17. Define Brief Resisted Isometric Exercise
18. Define Petrissage
19. What is Gutter Crutch
20. Define equilibrium.
21. What is SAID Principle
22. Give few Disadvantages of group therapy
23. What is Apparent Limb length
24. Active and Inactive posture
25. Write two tests for inco-ordination.
26. Define timing of emphasis
27. What is heart rate reserve?

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TIME – 2.30 Hrs.

MAX MARKS: 80

Pathology & Microbiology

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary.

Section - A

Pathology (40 marks)

QP Code : B3076

(Use Separate answer booklet for Section A & B)

LONG ESSAY

1 x 10 = 10 marks

1. Define Inflammation. What are the cardinal signs of inflammation. Write differences between acute and chronic inflammation .

SHORT ESSAY(Answer any Three)

3 x 5 = 15 marks

2. Hypertrophy.
3. Describe the differences between benign and malignant tumors.
4. Myocardial infarction.
5. Pneumonia.

SHORT ANSWERS (Answer any Five)

5 x 3 = 15 marks

6. Discuss the factors affecting wound healing
7. List clinical signs of Vitamin D deficiency
8. Three causes of normocytic normochromic anaemia
9. List THREE causes for Eosinophilia
10. Define inflammation and write types of inflammation
11. List THREE types of carcinogens.

Section - B

Microbiology (40 marks)

QP Code : B3075

LONG ESSAY

1 X 10 = 10 marks

1. Describe the source, modes of transmission, clinical features, complications, samples to be collected & diagnostic methods of Cholera (1+1+2+2+1+3)

SHORT ESSAYS (ANSWER ANY THREE)

3 X 5 = 15 marks

2. Vaccines : types with examples.
3. Bacterial growth curve.
4. Flagella : structure, types, methods of detection.
5. Map the clinical manifestations of *Staphylococcus aureus* .

SHORT ANSWERS (ANSWER ANY FIVE)

5 X 3 = 15 marks

6. Contributions of Louis Pasteur.
7. IgM : structure, properties.
8. Target site for antibiotics.
9. Enumerate 3 intestinal nematodes.
10. Bacterial Spores : types, clinical significance.
11. Enumerate 3 opportunistic mycoses.

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TIME – 2.30 HRS

MAX MARKS: 80

Research Methodology and Biostatistics

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary.

Section - A

Research Methodology (40 marks)

QP Code : B3085

(Use Separate answer booklet for Section A & B)

LONG ESSAY

1X 10 = 10 Marks

1. Discuss significance of literature review. Explain various types of literature review in Research Papers.

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

2. Explain criteria for selecting sample design.
3. Explain problems encountered by researchers in India.
4. Explain Stratified Random Sampling Technique.
5. Explain role of Computer in Research.

SHORT ANSWER (Answer any Five)

5X 3 = 15 Marks

6. Composition of Institution Ethical Committee.
7. List types of consent.
8. List the problems in data processing.
9. Define binary system with examples.
10. List the merits & Demerits of interview method.
11. Mention the Merits & Demerits of collection of data using questionnaires.

Section – B

Biostatistics (40 Marks)

QP Code : B3086

(Use separate answer booklet for section B)

LONG ESSAY

1X 10 = 10 Marks

1. a) Define central tendency. Mention 3 measures of central tendency.
b) Calculate the Mean and Standard deviation for the following data on recovery time of multiple fractures in 10 patients. (days) 42,38,28,86,22,62,54,55,34,27

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

2. Standard deviation and its uses.
3. Explain cluster Random sampling with an example.
4. Calculate Coefficient of variation for the data on DBP of patients 76, 62, 80, 75, 65, 62.
5. Z - Test.

SHORT ANSWER (Answer any Five)

5X 3 = 15 Marks

6. Chi-square test
7. Types of Diagrams used in data presentation
8. Interval scale of measurement
9. Inter Quartile Range.
10. Methods of data collection
11. 3 important use of Biostatistics in health research.

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