

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Bachelor of Physiotherapy, Second Year Semester-III

March 2022 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. Write the classification, principles, indications and contraindications of passive movements.
3. Explain relaxation and write about Jacobson's relaxation.

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

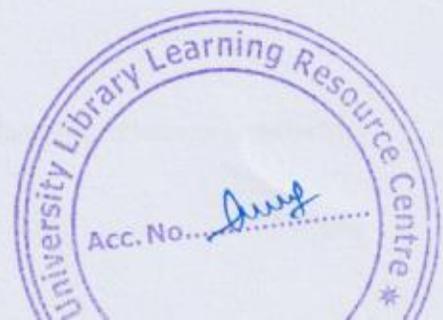
4. Enumerate the limitations of Manual muscle testing.
5. Write the precautions and contraindications of stretching
6. Write the Classification of passive movements and its uses.
7. Write about open chain and closed chain exercise.
8. Discuss the technique of suspension therapy for knee flexion and extension
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. Explain hold relax, repeated contraction and rhythmic initiation in PNF.
15. Explain the benefits of suspension therapy

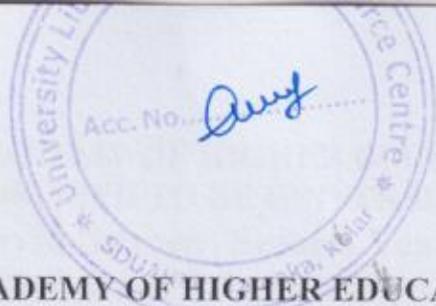
SHORT ANSWER (Answer any Ten)

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 postural tone
27. What is heart rate reserve?

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**Bachelor of Physiotherapy, Second Year Semester-III,
March 2022 Examination.**

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. Classify anemia. Discuss iron deficiency anemia in detail.

SHORT ESSAYS (ANSWER ANY THREE)

3 X 5 = 15 marks

2. Discuss tuberculosis.
3. Pleomorphic adenoma
4. Rheumatoid endocarditis
5. Osteomyelitis

SHORT ANSWERS (ANSWER ANY FIVE)

5 X 3 = 15 marks

6. Classify bronchogenic carcinoma
7. Causes of pneumonia
8. Enumerate tumours of thyroid
9. Methods of blood grouping
10. Causes of PEM
11. Write three differences between benign and malignant tumours

Section - B

Microbiology (40 marks)

QP Code: B3075

LONG ESSAY

1 X 10 = 10 marks

1. Define & Classify Sterilization. Draw a neat labeled diagram of the Autoclave and describe its principle, uses, controls used (2+2+2+1+2+1)

SHORT ESSAYS (ANSWER ANY THREE)

3 X 5 = 15 marks

2. Describe the Structure and types of Flagella
3. Describe the types of Acquired immunity with examples
4. Describe the diseases caused by *Staphylococcus aureus*
5. Classify fungal infections. Mention the modes of infection and describe the lesions caused by dermatophytes

SHORT ANSWERS (ANSWER ANY FIVE)

5 X 3 = 15 marks

6. Enumerate three complications of *Plasmodium falciparum*
7. Enumerate three opportunistic fungi
8. Mention the modes of transmission of Hepatitis B virus
9. Enumerate three microorganism causing Pneumonia
10. Enumerate three zoonotic infections.
11. Draw a neat labelled diagram and mention any two biological functions of Immunoglobulin M

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MAX MARKS: 80

Research Methodology and Biostatistics

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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. Define central tendency. Calculate 3 important measures for the following data on pain scores 20, 23, 19 .66, 22, 70. Which is ideal measure of average for the data?

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

2. Describe various scale of measurement with examples
3. Systematic random sampling
4. Non-probability sampling methods
5. Types of Correlation

SHORT ANSWER (Answer any Five)

5X 3 = 15 Marks

6. Student t test
7. Histogram.
8. Coefficient of variation advantages.
9. Arithmetic mean.
10. Null and Alternate hypothesis
11. Distinguish between primary and secondary data

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