(A DEEMED TO BE UNIVERSITY)

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

Bachelor of Physiotherapy, Second Year Semester-III September 2021 Examination.

TIME - 3 HRS

MAX MARKS:100

EXERCISE THERAPY

O.P. CODE: B3060

Your answers should be specific to questions asked. Draw neat labelled diagrams wherever necessary

LONG ESSAY (Answer any Two)

 $2 \times 10 = 20 \text{ Marks}$

- Define PNF, give the neurophysiological principles and describe D1& D2 upper limb pattern
- Write the principles, types of suspension therapy.enumerate the technique to improve elbow jt flexion/extension
- Explain the tests for co-ordination. Describe the frenkles exercise program for lower limbs in co-ordination

SHORT ESSAY(Answer any Ten)

10X 5 = 50 Marks

- Explain about suspension therapy equipments and accessories
- Write the functional re-education from sitting to standing. 5.
- What is PRE? Describe DeLorme's technique
- Discuss the determinants and tissue response to stretching
- 8. Describe Pre crutch training and its importance.
- What are the Indications for joint mobilization & effects of accessory movements on a joint
- 10. Describe postural mechanisms.
- What are the merits & demerits ofhydrotherapy
- 12. How will you organize group exercise.
- 13. Describe the indications and technique of stretching TFL tightness
- Write the principles and techniques of Co ordination exercises
- 15. Explain the technique of measuring limb length & girth

SHORT ANSWER (Answer any Ten)

10 X 3 = 30 Marks

- Define static power test. 16.
- 17. Give 3 derived position in standing
- 18. Stretching technique for Quadriceps muscle
- 19 List the principles of susepnsion therapy
- 20. Mention any 3 uses of parallel bar
- 21 Write the uses of PFT.
- 22. Define muscle tone
- 23. Define VO2 Max
- 24. Name 3 uses of overhead pulleys
- 25. What are active & inactive postures
- 26. Define isokinetic exercises
- 27. What is BRIME

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Bachelor of Physiotherapy, Second Year Semester-III, September 2021 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

 $1 \times 10 = 10 \text{ marks}$

1. Define and elaborate the laboratory investigations of hemolytic anemia

SHORT ESSAYS (ANSWER ANY THREE)

 $3 \times 5 = 15 \text{ marks}$

- 2. Hepatitis
- 3. Squamous cell carcinoma
- 4. Gastric ulcer
- 5. Risk factors and pathogenesis of atherosclerosis

SHORT ANSWERS (ANSWER ANY FIVE)

 $5 \times 3 = 15 \text{ marks}$

- 6. Differentiate between dysplasia and metaplasia
- 7. Causes of pancreatitis
- 8. Types of hepatitis
- 9. Classify bone tumours
- 10. Causes for megaloblastic anemia
- 11. Blood grouping and cross matching methods

Section - B

Microbiology (40 marks)

QP Code: B3075

LONG ESSAY

 $1 \times 10 = 10 \text{ marks}$

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

SHORT ESSAYS (ANSWER ANY THREE)

 $3 \times 5 = 15 \text{ marks}$

- 2. Describe the principle, uses of Autoclave and add a note on controls used
- 3. Describe bacterial growth curve
- 4. Describe the structure, types, methods of detection of Flagella
- 5. Describe the diseases caused by Staphylococcus aureus

SHORT ANSWERS (ANSWER ANY FIVE)

5 X 3 = 15 marks

- 6. Mention three contributions of Louis Pasteur
- 7. Draw a neat labeled diagram and mention any two biological function of IgM antibody
- 8. Mention six steps of hand hygiene
- 9. Enumerate three intestinal nematodes
- 10. Mention the types and any two clinical significances of Bacterial Spores
- 11. Enumerate three 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. Enumerate various types of Reports. Explain Steps in writing a Research report.

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

- 2. Explain Stratified Random Sampling Technique.
- 3. Differentiate between descriptive & inferential statistics.
- 4. Explain various statistical software available for data analysis.
- 5. Explain criteria for Good Research.

SHORT ANSWER (Answer any Five)

5X 3 = 15 Marks

- 6. Sample Size.
- 7. List the problems in data processing.
- 8. Types of Surveys in Good research.
- 9. Difference between statistic and parameter.
- 10. PICOT Criteria.
- 11. Measures of dispersion.

Section - B

Biostatistics (40 Marks) OP Code: B3086

(Use separate answer booklet for section B)

LONG ESSAY

1X 10 = 10 Marks

1. Discuss various types of frequency distribution with examples. Mention basic principles of frequency distribution

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

- 2. Statistical Averages
- 3. Classify Tests of significance
- 4. Explain scatter diagrams with examples
- 5. Probability sampling and its advantages

SHORT ANSWER (Answer any Five)

5X 3 = 15 Marks

- 6. Use of Standard deviation
- 7. Stratified sampling
- 8. Confidence Interval
- 9. Mode as a measure of central tendency.
- 10. Methods of data collection
- 11. Frequency Polygon

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