

**Bachelor of Physiotherapy (BPT)**  
**Second Year Semester-III, July-2018 Examination**

**Time: 2.30 Hrs.**

**Paper-I**

**[Max. Marks: 80]**

**Microbiology and Pathology**

*Your answer should be specific to the questions asked.*

*Draw neat labeled diagrams wherever necessary.*

*(Use separate answer booklet for section A & B).*

**Section-A**

**Microbiology (40Marks)**

**Q.P Code : BPT-106A**

**LONG ESSAY**

**1 X 10 = 10 Marks**

1. Define and classify sterilization. Describe in detail moist heat sterilization.

**SHORT ESSAY (Answer any Three)**

**3X 5 = 15 Marks**

2. Bacterial cell wall.
3. Describe the laboratory diagnosis of HIV infection.
4. Agglutination reactions: types and clinical applications.
5. laboratory diagnosis of pulmonary tuberculosis.

**SHORT ANSWER (Answer any Five)**

**5X 3 = 15 Marks**

6. IgM antibody.
7. Standard universal precautions.
8. Selective media with examples.
9. Robert Koch.
10. Growth curve.
11. Name the protozoal parasites causing diarrhoea and dysentery.

**Section – B**

**Pathology (40 Marks)**

**Q.P. Code : BPT-106B**

*(Use separate answer booklet for section B)*

**LONG ESSAY**

**1 X 10 = 10 Marks**

1. Discuss the cellular events of acute inflammation.

**SHORT ESSAY (Answer any Three)**

**3X 5 = 15 Marks**

2. Hashimotos thyroiditis.
3. Morphology of lepromatous leprosy.
4. Lobar pneumonia.
5. Morphology of osteosarcoma.

**SHORT ANSWER (Answer any Five)**

**5X 3 = 15 Marks**

6. Mention the transfusion reactions.
7. List causes of splenomegaly.
8. Morphology of meningioma.
9. Clinical features of scurvy.
10. Granuloma.
11. Mention clinical features of Kwashiorkor.

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**Time: 3.00 Hrs.**

**Paper-II**

**[Max. Marks: 100]**

**EXERCISE THERAPY**

**Q.P Code: BPT-107**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY (Answer any Two)**

**2 X 10 = 20 Marks**

1. Define PNF. Describe the neurophysiological principles of PNF. Describe 2 relaxation techniques of PNF.
2. Define suspension therapy. Explain the principles, uses, types and techniques of suspension therapy.
3. Define Posture. Describe good and poor posture. Explain the principles of re-education for various postural deviations.

**SHORT ESSAY (Answer any Ten)**

**10X 5 = 50 Marks**

4. Explain the tests for co-ordination.
5. Write in brief about the angle of pelvic inclination.
6. Explain the principles of stretching.
7. Explain the mobilisation technique to improve knee ROM.
8. Explain the types of resisted exercises.
9. Describe exercise stress test.
10. Describe the techniques of stretching for calf muscles.
11. Explain physiological response to aerobic exercise.
12. Indications and contraindications of massage.
13. Examination and evaluation of impaired balance.
14. Explain gait training with the help of tripod.
15. Functional re-education from quadruped position to sitting.

**SHORT ANSWER (Answer any Ten)**

**10 X 3 = 30 Marks**

16. Kaltenborn's grade of mobilisation.
17. Ballistic stretching
18. Circuit weight training.
19. Types balance retraining.
20. Benefits of group exercises.
21. Indications of passive movements.
22. There Benefits of suspension therapy.
23. Mention any two derived positions from sitting.
24. Define 10 RM
25. Oxford exercise regimen.
26. Describe Concentric and eccentric exercise with an example.
27. Explain Petrissage massage technique.

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**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

**(A DEEMED TO BE UNIVERSITY)**

**Bachelor of Physiotherapy (BPT)**

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**Time: 2.30 Hrs.**

**Paper-III**

**[Max. Marks: 80]**

**Research Methodology and Biostatistics**

*Your answer should be specific to the questions asked.*

*Draw neat labeled diagrams wherever necessary.*

*(Use separate answer booklet for section A & B).*

**Section – A**

**Research Methodology (40 Marks)**

**Q.P Code : BPT-108**

**LONG ESSAY**

**1 X 10 = 10 Marks**

1. What is probability sampling? Mention various probability sampling methods. Disuses systematic random sampling.

**SHORT ESSAY (Answer any Three)**

**3X 5 = 15 Marks**

2. Descriptive approach research.
3. Disuses various types of research and their merits and demerits.
4. Disuses the characteristics of a good research design.
5. Types of data

**SHORT ANSWER (Answer any Five)**

**5X 3 = 15 Marks**

6. Research variables.
7. Types of surveys in research.
8. Disuses the role of questionnaires in data collection.
9. Scales of measurement.
10. Role of computer in research.
11. Pilot study.

**Section – B**

**Biostatistics (40 Marks)**

*(Use separate answer booklet for section B)*

**LONG ESSAY**

**1X 10 = 10 Marks**

1. Discuss briefly the application and usefulness of methods of biostatistics in different disciplines of medicine and physiotherapy.

**SHORT ESSAY (Answer any Three)**

**3X 5 = 15 Marks**

2. What is vital statistics? Point out their usefulness.
3. Role of biostatistics in clinical research.
4. Coefficient of variation.
5. Statistical inference.

**SHORT ANSWER (Answer any Five)**

**5X 3 = 15 Marks**

6. Collection and tabulation of data.
7. Histogram.
8. Standard deviation.
9. Arithmetic mean.
10. Presentation tools.
11. Random sampling.

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