

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Bachelor of Physiotherapy (CBCS)

First Year Semester-II, February-2020 Examination

Time: 3.00 Hrs.

[Max. Marks: 100]

BIOMECHANICS

Q.P Code: B2030

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

LONG ESSAY [Answer any two]

2X10=20MARKS

1. Explain about Shoulder Joint Structure Including Stability & Mobility factors.
2. Describe in detail about the articulating structure, kinematics of tibiofemoral joint.
3. What is the functional position of hand? Add note on power grips.

SHORT ESSAY [Answer any ten]

10X5=50MARKS

4. Biomechanics of cervical spine
5. Explain structure and functions of menisci.
6. Describe about sternoclavicular and acromioclavicular contributions in shoulder motion
7. Explain arches of foot & its functions.
8. Describe the type of joints with example.
9. Explain about patellofemoral joint reaction forces.
10. Define posture. Explain the kinetics of posture.
11. Write the types of Newton's law & explain about law of inertia.
12. Compare Lumbo pelvic rhythm with Scapula humeral rhythm.
13. Describe the order of levers with examples.
14. What is stress & strain? Write in detail about load/deformation curve.
15. Explain screw home mechanism.

SHORT ANSWERS [Answer any ten]

10X3=30 MARKS

16. Classification of muscles.
17. Passive insufficiency versus active insufficiency.
18. Accessory muscles of ventilation.
19. Muscles of shoulder joint and its action in detail.
20. Glenohumeral ligaments and its functions.
21. Define "Q" angle.
22. Articulations of ankle joint.
23. Carrying angle
24. Ulnar negative variance
25. Uses of walking aids
26. Define Myotendinous junction
27. Define joint play.

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Time -2.30 HRS

Max Marks: 80

BICHEMISTRY

Q.P. CODE: B2040

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

LONG ESSAY (Answer any two)

2x10=20 Marks

1. Define Glycolysis. Write the reactions by which glucose is converted to lactate. Add a note on its energetics and regulation.
2. Explain the various factors affecting enzyme activity with Suitable Graphs.
3. Mention the dietary sources, Recommended Daily Allowance, biochemical functions and deficiency manifestations of Vitamin B12.

SHORT ESSAY (Answer any six)

6x5=30 Marks

4. Define lipoproteins. Classify lipoproteins with their functions.
5. What are Glycosaminoglycans? List any four Glycosaminoglycans with their biological significance.
6. Describe the Structure of B form of DNA with neat labeled diagram.
7. Name the Bile salts. Explain their role in lipid digestion and adsorption.
8. Define Specific dynamic action. Mention the values for carbohydrates, fats and proteins. Mention the causes for high SDA for proteins.
9. What is glutathione? Write the composition and write any 3 biological roles of Glutathione.
10. Define Fatty Liver. Mention the causes of fatty liver. Add a note on lipotropic factors.
11. Enumerate the biochemical functions of Vitamin C.

SHORT ANSWER (Answer any Ten)

10 x 3 = 30 Marks

12. What is the Normal Blood pH range? Mention the blood buffers that regulate the Blood pH
13. Name the three ketone bodies.
14. Name the 3 biologically important compounds derived from Tyrosine.
15. What is transamination reaction? Give one example.
16. Write the Biological Reference range of serum levels of a) Sodium b) Potassium c) Calcium
17. Name any three Biologically important nucleotides.
18. List the three essential fatty acids.
19. List any 3 functions of Calcium.
20. Write any three differences between DNA & RNA.
21. Write any three functions of Albumin.
22. List any three Group II Hormones (hormones that act through cell surface receptors)
23. Name the 3 Biologically important compounds derived from Cholesterol.

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Psychology and Sociology

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Draw neat labelled diagrams wherever necessary.

Section - A

Psychology (40 marks)

QP Code : B2055

(Use Separate answer booklet for Section A & B)

LONG ESSAY

1 X 10 = 10 Marks

1. Write the stages of human development? Describe middle age and Old age?

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

2. Name the branches of Psychology ? And describe any 2 ?
3. Describe the theories of motivation.
4. How is mental retardation classified based on the IQ levels? Name 3 tests of intelligence.
5. What is Conflicts? Describe multiple approach – avoidance conflicts

SHORT ANSWER (Answer any Five)

5 X 3 = 15 Marks

6. Write the qualities of Leadership
7. Name three psychotic defense mechanisms
8. Name types of learning
9. Name the theories of motivation
10. Define a hallucination, name different types of hallucination.
11. What is Psychology? Write 2 definitions ?

Section – B

Sociology (40 Marks)

QP Code : B2056

(Use separate answer booklet for section B)

LONG ESSAY

1 X 10 = 10 Marks

1. Define Family? Describe the types and functions of family

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

2. Discuss the causes of population explosion? What are the effects on health?
3. Explain health problems of the rural community
4. Explain the Consequences of poverty
5. Write a note on Culture and health

SHORT ANSWER (Answer any Five)

5 X 3 = 15 Marks

6. Interview method
7. Social welfare programmes
8. Social work
9. Social change
10. Public opinion
11. Methods of study
