Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA)
A Deemed to be University established under Section 3 of the UGC Act, 1956

Program: BPT
Subject Name: Anatomy
Year Period: Dec, 2024 – Jan, 2026
Date: 01.12.2025
Examination Mode: Regular

Year: 1st Year
Subject Code: BPT 0103T
Batch: December, 2024
Time: 09.45 am to 12.45 pm
Max. Marks: 100

General Instructions:

1. Read all the questions carefully and then start writing
2. Do not write anything on the question paper
3. Write your registration number on the rectangular space provided here

Reg No:

Long Essay: (Attempt any Two) – 10 Marks for each Question **02* 10 =20 Marks**

1. Describe the external features of heart. Explain Right atrium in detail
2. Explain the structure and function of the knee joint.
3. Describe the gross anatomy of the eyeball, and explain the visual pathway

Short Essay (Attempt any Twelve) – 5 Marks for each Question **12 *05 =60 Marks**

4. List the different types of peritoneum and state a function for each.
5. Name any four abductors of hip joint and mention about their origin and insertion
6. Elaborate about the dorsum of hand
7. Mention the origin and insertion of muscles of the posterior aspect of leg.
8. Enumerate the importance of pelvic floor muscles. Brief about the pathologies associated with them
9. Explain the location, parts, functions, and blood supply of the kidney
10. Draw a neat and labelled diagram of Ulna
11. Explain the anatomical relationship and function of the popliteal fossa, including the structures passing through it and its clinical relevance
12. Explain the Spleen in detail with required diagrams.
13. Describe right atrium of heart
14. External features of right lung
15. List all the erector spinae muscles along with their origin, insertion and nerve supply.
16. What is meant by first cervical rib? List few features of C7 vertebra
17. Enumerate the different types of ribs present in human body

Short Notes (Attempt any Ten) – 2 Marks for each Question **10 *02 =20 Marks**

18. Nerve supply of the stomach with its one function.

19. Name the nerves of lower limb.

20. If a patient can protrude their tongue normally but lacks the sense of taste from the anterior two-thirds of the tongue, which specific cranial nerve is damaged

21. Acetabular labrum

22. List the importance served by iliotibial tract.

23. Name the muscles of anterior compartment of leg.

24. Name the bones that form the pelvic girdle.

25. Ligamentum flavum

26. Name the arches of foot.

27. Layers of wall of heart

28. Enumerate the contents of posterior mediastinum

29. Which paired bone of the skull forms the main component of the cheekbone, articulates with the maxilla, and protects the lateral wall of the orbit?

Marks

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Program: BPT
Subject Name: Basic Kinesiology
Year Period: Dec, 2024 – Jan, 2026
Date: 26.11.2025
Examination Mode: Regular

Year: 1st Year
Subject Code: BPT 0106T
Batch: December, 2024
Time: 09.45 am to 12.45 pm
Max. Marks: 100

General Instructions:
1. Read all the questions carefully and then start writing
2. Do not write anything on the question paper
3. Write your registration number on the rectangular space provided here

Reg No:

Long Essay: (Attempt any Two) – 10 Marks for each Question **02* 10 =20 Marks**

1. Explain Newton's laws of motion with an example each.
2. What is joint range of motion? Explain its types with an example. Mention different ways by which range of motion is measured.
3. Explain the motor unit with a diagram.

Short Essay (Attempt any Twelve) – 5 Marks for each Question **12 *05 =60 Marks**

4. Which type of levers are commonly seen in the human body? What are its advantages and disadvantages?
5. When do you say that an object is in equilibrium?
6. Describe the structure of a joint with an example.
7. Explain the different types of range of motion.
8. Explain the structure of bone with a diagram.
9. Explain convex- concave rule with respect to movements occurring at joints.
10. Explain angle of pull of muscle with an example.
11. Describe the type of movement available in ball and socket joint with example.
12. Explain the physiological effects of water/pool therapy.
13. What are the effects of injury on muscles?
14. How is the action of prime mover different from synergist? Explain with an example.
15. Explain Mechanical advantage of levers with respect to the three classes of lever.
16. Explain the effects of load on connective tissues.
17. What are single and two joint muscles? Explain with an example.

Short Notes (Attempt any Ten) – 2 Marks for each Question **10 *02 =20 Marks**

18. Define equilibrium and inertia.

19. What is line of gravity?

20. Define joint. Give its classification.

21. What are the functions of joints?

22. What is a lever? Name the different types of lever.

23. What are the different types of anatomic pulleys?

24. What are static and kinetic friction?

25. What is moment arm of a muscle?

26. What is Young's modulus?

27. Name the types of muscle fibres.

28. What are the changes occurring to a joint due to disease?

29. What is Glycosaminoglycan (GAG?)

Marks

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Program: BPT
Subject Name: Biochemistry
Year Period: Dec, 2024 – Jan, 2026
Date: 28.11.2025
Examination Mode: Regular

Year: 1st Year
Subject Code: BPT 0105T
Batch: December, 2024
Time: 09.45 am to 12.45 pm
Max. Marks: 100

General Instructions:

1. Read all the questions carefully and then start writing
2. Do not write anything on the question paper
3. Write your registration number on the rectangular space provided here

Reg No:

Long Essay: (Attempt any Two) – 10 Marks for each Question **02* 10 =20 Marks**

1. Explain β-oxidation of fatty acids with structure and enzymes involved.
2. Describe the Watson & Crick model of DNA.
3. Write an account on factors affecting enzyme activity

Short Essay (Attempt any Twelve) – 5 Marks for each Question **12 *05 =60 Marks**

4. Principle and limitation of ninhydrin test.
5. Classification of lipids.
6. Preparatory phase reactions of glycolysis.
7. Structure and functions of phospholipids.
8. Explain induced-fit theory.
9. Carbohydrate digestion with enzymes.
10. Define peptides and biological importance.
11. Glycogenolysis pathway.
12. Enzyme inhibition.
13. Energetics of palmitic acid oxidation.
14. Collagen and elastin abnormalities.
15. Hormone classification based on mechanism.
16. Body buffers.
17. Source and role of aldosterone.

Short Notes (Attempt any Ten) – 2 Marks for each Question **10 *02 =20 Marks**

18. Glycolysis.

19. Location of gluconeogenesis.

20. Define cofactor.

21. Prosthetic group.

22. Lock and key model.

23. Define nutrition.

24. Minerals maintaining fluid balance.

25. Hyperventilation effect on pH.

26. Define RQ.

27. Define holoenzyme.

28. Name one steroid hormone.

29. Which gland secretes ADH?

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Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA)
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Program: BPT
Subject Name: Human Physiology
Year Period: Dec, 2024 – Jan, 2026
Date: 04.12.2025
Examination Mode: Regular

Year: 1st Year
Subject Code: BPT 0104T
Batch: December, 2024
Time: 09.45 am to 12.45 pm
Max. Marks: 100

General Instructions:

1. Read all the questions carefully and then start writing
2. Do not write anything on the question paper
3. Write your registration number on the rectangular space provided here

Reg No:

Long Essay: (Attempt any Two) – 10 Marks for each Question **02* 10 =20 Marks**

1. Explain in detail deglutition
2. Enlist the hormones secreted by pancreas? Explain the function and regulations of secretion of insulin.
3. What are respiratory centers? Explain in detail on neural regulation on respiration.

Short Essay (Attempt any Twelve) – 5 Marks for each Question **12 *05 =60 Marks**

4. Properties of muscle
5. Write a note on dead space
6. Write a note on electrical changes during muscular contraction
7. Give an account on gastritis
8. Mention the movement of thoracis cage.
9. Write a note on maternal changes during pregnancy.
10. Function of blood
11. Collapsing tendency of lung and factors preventing it.
12. Functions of Thalamus
13. Write note on surfactants?
14. Errors of refraction
15. Structure of nephron
16. Write a note on acclimatization
17. Functions of salivary glands

Short Notes (Attempt any Ten) – 2 Marks for each Question **10 *02 =20 Marks**

18. Enumerate any 4 differences between WBC and RBC

19. Waves of normal ECG

20. What is diffusing capacity?

21. Peptic ulcer

22. What is axonotemesis

23. What is ESR?

24. Functions of pancreatic juices

25. Luteinizing hormone

26. Babinski's sign

27. Ejection fraction

28. Diplopia

29. Iron deficiency anemia

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Marks

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Program: BPT
Subject Name: Sociology
Year Period: Dec, 2024 – Jan, 2026
Date: 24.11.2025
Examination Mode: Regular

Year: 1st Year
Subject Code: BPT 0102 T
Batch: December, 2024
Time: 09.45 am to 11.00 am **(1Hr 15 Min)**
Max. Marks: 40

General Instructions:

1. Read all the questions carefully and then start writing
2. Do not write anything on the question paper
3. Write your registration number on the rectangular space provided here

Reg No:

Long Essay: (Attempt any One) – 10 Marks for each Question **01*10 = 10 Marks**

1. Write a detailed essay on the functions and importance of family in society.
2. Write a detailed essay on the relationship between culture and health.

Short Essay (Attempt any Four) – 5 Marks for each Question **04 *05 =20 Marks**

3. Explain the meaning and nature of socialization.
4. Compare and contrast primary and secondary groups.
5. What are the health hazards faced by urban communities?
6. Describe the role of social change in health programs.
7. Write a Short note on prostitution.
8. Write a note social security in relation to disability.

Short Notes (Attempt any Five) – 2 Marks for each Question **05 *02 =10 Marks**

9. What is the scope of sociology?
10. List any two agencies of socialization.
11. What are secondary groups?
12. What is meant by community health?
13. Mention the reasons for poverty.
14. What is the role of medical social worker?