

MD YOGA

1st Semester

Batch – September, 2024

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

Program: MD (Yoga)
Subject Name: Clinical Methods
Sem Period: September, 2024 – February, 2025
Date: 22.02.2025
Examination Mode: Regular

Semester: 1st Semester
Subject Code: MDYT 102
Batch: September, 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:

Short Notes (Attempt any Ten) – 2 Marks for each Question

10 *02 =20 Marks

1. Hemoptysis and Hematemesis
2. Pectus Carinatum
3. Puddles Sign
4. Transient ischemic attack
5. Classify Alopecia
6. Wilson's Disease
7. Bell's Palsy
8. Tetralogy of Fallot
9. Serum Enzymes in MI
10. Give the FEV1/FVC ratio for normal, Obstructive and Restrictive lung diseases
11. Indications of USG abdomen and pelvis
12. Dextrocardia

Short Essay (Attempt any Eight) – 5 Marks for each Question

08 *05 =40 Marks

13. Examination of peripheral pulses
14. Define clubbing, mention the causes, and grade clubbing
15. Explain in detail about obesity and add a note on Physical examinations in obesity.
16. Mention different types of fever and add a note on Remittent and Intermittent fever
17. Mechanism of production of normal Heart Sounds
18. Write in detail about the assessment of superficial and deep tendon reflexes and mention their grading.
19. Classify Angina and explain in detail about them
20. Cerebellar signs
21. Describe the procedure of Lumbar Puncture and add a note on indications of Lumbar Puncture
22. Explain different methods of Barium studies

Long Essay: (Attempt any Four) – 10 Marks for each Question

04* 10 =40 Marks

23. Explain in detail about symptoms, signs, and clinical examination of the Cardiovascular system.
24. Explain in detail about the examination of higher mental function, add a note on mini-mental state examination.
25. Explain in detail about presenting complaints, signs and physical examination for Tuberculosis and add a note on Clinical Investigations
26. Define Ascites and explain the clinical examination
27. Differences between Obstructive and Restrictive lung diseases add a note on Spirometry changes.
28. Explain in detail about spirometry.



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

Program: MD (Yoga)

Subject Name: Complementary & Integrative Medicine

Sem Period: September, 2024 – February, 2025

Date: 15.02.2025

Examination Mode: Regular

Semester: 3rd Semester

Subject Code: MDYT 302

Batch: August, 2023

Time: 09.45 am to 12.45 pm

Max. Marks: 100

General Instructions:

1. Read all the questions carefully and then start writing
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Reg No:

Short Notes (Attempt any Ten) – 2 Marks for each Question

10 *02 =20 Marks

1. Define Complementary and Alternative Medicine
2. Why is it important to integrate medical systems?
3. Role of Serotonin hormone in preserving health.
4. Define Osteopathy
5. Rules of Massage therapy
6. Relaxation techniques in Yoga
7. Aromatherapy
8. Arogyaraksha Panchatantra
9. What is the importance of a healthy diet in a patient's recovery process?
10. Mithahara
11. Triphala
12. Principles of Homeopathy

Short Essay (Attempt any Eight) – 5 Marks for each Question

08 *05 =40 Marks

13. Science behind the Principles of Naturopathy
14. Write about any 2 modern theories of Acupuncture
15. Write in detail about Chiropractic.
16. Diet therapy for Liver health
17. Role of Traditional Chinese Medicine in the Diagnosis of Diseases
18. Sowarigpa – An overview
19. Elaborate on the various Hydrotherapy methods that can be efficiently used in gastrointestinal disorders
20. Yoga Prescription for Spine Health
21. Ayurveda and Naturopathy prescription for Musculoskeletal health
22. Importance of Patient-Centric Approach in Health Care

23. Define CIM. Classify CIM therapies. Describe the role of CIM in Holistic Health.
24. Global Perspectives of Massage Therapy.
25. Justify with rationale the role of integrative medicine in Palliative Care.
26. As an alternative medicine physician, how would you like to integrate yoga into your clinical practice?
27. Discuss in detail the various treatment methods in the integrative approach of PCOD, focusing on the regulation of menstrual cycle, improving insulin sensitivity, and weight management.
28. AYUSH systems in the field of Wellness.



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

Program: MD (Yoga)
Subject Name: ICT in Medicine
Sem Period: September, 2024 – February, 2025
Date: 22.02.2025
Examination Mode: Regular

Semester: 3rd Semester
Subject Code: MDYT 305
Batch: August, 2023
Time: 09.45 am to 12.45 pm
Max. Marks: 100

General Instructions:

1. Read all the questions carefully and then start writing
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Reg No:

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

1. Differentiate features of Old & Modern Computers.
2. What is basic Office tools used in day-to-day life? How has it helped in documentation?
3. What is a Network Topology? Mention its types.
4. What is Publish & Perish Harzing Software. Add a note on PubMed, Google Scholar & Sci-Hub.
5. What is Simulation? Why it is necessary?
6. Give some examples of Social Media Platforms efficient in Health Care Management
7. What is the difference between Volatile & Non-volatile Memory?
8. Provide names of the apps/software used for Statistical analysis
9. What is Bioinformatics?
10. Define Telemedicine.
11. What is Cloud Storage. Advantages & Disadvantages.
12. Differentiate VGA, HDMI & RJ45 Cables.

Short Essay (Attempt any Eight) – 5 Marks for each Question **08 *05 =40 Marks**

13. What is the role of ICT in the field of Medicine today, explain?
14. Define Analog Signals & Digital signals. Differentiate between Analog Computers & Digital Computers.
15. Explain Memory & its types.
16. What is a Smart Classroom? How has Smart classrooms revolutionized learning today?
17. Explain Virtual & Augmented Reality
18. Differentiate Primary & Secondary Storages
19. Explain the types of Networks.
20. What is Data Privacy? What are different ways of maintaining data privacy in Medicine & Health?
21. Mention differences between traditional medical records & Electronic Health Records.
22. Explain the role of Artificial Intelligence (AI) in Health Care

23. Explain briefly the generations & Evolution of computers. Mention its advantages & disadvantages of computers.
24. Explain the role of Bioinformatics in Healthcare. Add a note on Data Analytics.
25. Explain the procedure for Operating System (OS) Installation to a Personal Computer. Add a note on Troubleshooting the Challenges.
26. Explain important aspects of ICT in Research.
27. What is EHR? Explain in detail the requirements for EHR & the advantages & challenges in implementation of EHR in clinical settings.
28. Explain the basics of Computer. Add a note on Memory



Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA)
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Program: MD (Yoga)
Subject Name: Nutrition and Dietetics
Sem Period: September, 2024 – February, 2025
Date: 20.02.2025
Examination Mode: Regular

Semester: 3rd Semester
Subject Code: MDYT 304
Batch: August, 2023
Time: 09.45 am to 12.45 pm
Max. Marks: 100

General Instructions:

1. Read all the questions carefully and then start writing
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Reg No:

Short Notes (Attempt any Ten) – 2 Marks for each Question

10 *02 =20 Marks

1. Give the importance of nutrition in the body
2. Explain the process of homogenization of milk
3. What is RDA?
4. What is adequate intake?
5. What are phytochemicals?
6. What is BMI?
7. What is 24 hrs recall method?
8. What is weaning?
9. What are lactogogues?
10. Explain the dietary rule for CVD
11. What is freezing?
12. Mention any two recent developments in the field of nutrition.

Short Essay (Attempt any Eight) – 5 Marks for each Question

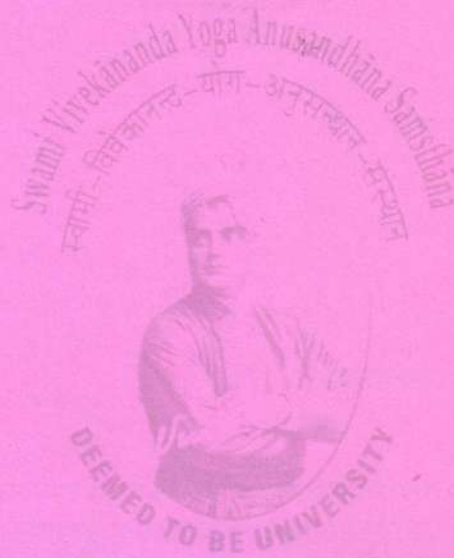
08 *05 =40 Marks

13. Draw the structure of food pyramid and explain
14. How will you plan a menu for the individual?
15. What are anthropometric measurements?
16. What is packed lunch? Give some examples
17. Write about PEM
18. Explain the relationship between maternal and fetal nutrition
19. Explain the dietary modifications for iron deficiency anaemia
20. Explain in detail about food additives
21. Explain the concept of food in Ayurveda
22. Detail about the recent developments in the field of food technology

Long Essay: (Attempt any Four) – 10 Marks for each Question

04* 10 =40 Marks

23. Define the different types of dry heat cooking methods along with its advantages and disadvantages.
24. Explain the nutritional assessments for pregnant women.
25. Describe the impact of nutritional deficiency on the outcome of lactation.
26. Explain the dietary changes which you have to adopt for GI with diabetes patients.
27. Compare and justify on the foods of ancient and modern era
28. Write about the following in detail
 - a. Sathwic food
 - b. Rajasic food
 - c. Tamasic food



Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA)
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Program: MD (Yoga)
Subject Name: Patanjali Yoga Sutras & Yoga Vasishta
Sem Period: September, 2024 – February, 2025
Date: 18.02.2025
Examination Mode: Regular

Semester: 3rd Semester
Subject Code: MDYT 303
Batch: August, 2023
Time: 09.45 am to 12.45 pm
Max. Marks: 100

General Instructions:

1. Read all the questions carefully and then start writing
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Reg No:

Short Notes (Attempt any Ten) – 2 Marks for each Question

10 *02 =20 Marks

1. What is the concept of Chitta from yoga sutra's perspective?
2. What is Nidra-vritti? What is its speciality
3. Write a short note on Ritambhara prajna
4. What is Avidya?
5. What are the benefits of Kriya-yoga practice?
6. Two methods to overcome Kleshas
7. What is Samyama?
8. Why Antaranga-yoga is considered outside the category of Nirbija
9. How the siddhi of understanding the language of other species obtained?
10. What is the view of yoga sutra's on past and present
11. What is the sequence of the manifestation of Aadhis and Vyadhis?
12. What is the opening question of Sri-Rama to sage Vashishta regarding Aadhi-Vyadhi

Short Essay (Attempt any Eight) – 5 Marks for each Question

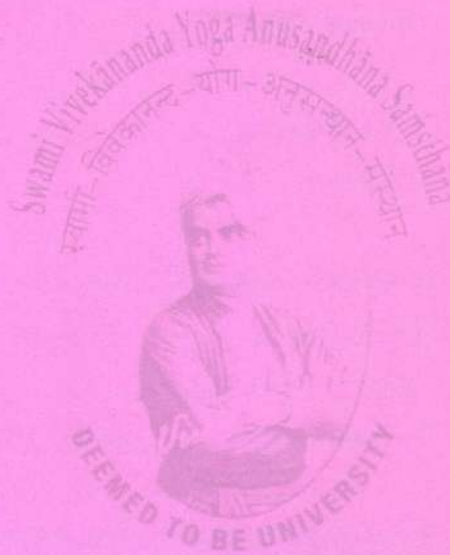
08 *05 =40 Marks

13. What are the obstacles described in PYS?
14. Explain the concept of Eswara quoting and elaborating relevant sutras
15. What is the meaning of sutra *Ksheena vritti.....savitarka samapatti.*
16. Write short note on the concept of Heya and Heya-hetu
17. What is a Viveki's view on the world of material experiences?
18. Briefly explain the concept of Krama and its relationship with the phenomenon of Parinama
19. How the siddhi of indriyajaya achieved?
20. Brief note on the concept of Nirmana chitta
21. Write a short note on types of Vyadhis as per Yoga vasishta
22. Benefits of practicing Yama.

Long Essay: (Attempt any Four) – 10 Marks for each Question

04* 10 =40 Marks

23. List and explain any five techniques to overcome Antarayas in the path of yoga.
24. Elaborate on the concept of Drishya and Drishta, and their nature and difference
25. Briefly explain any 10 siddhis and its basis.
26. Explain in detail the concept of Dharma-megha samadhi and its implications.
27. Explain the concept of Vasana, its origins and its relationship between Karma, Smriti & Samaskara and its disappearance
28. Explain in detail the relationship between an agitated mind, pranic flow and manifestation of diseases.



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

Program: MD (Yoga)
Subject Name: Research Methodology
Sem Period: September, 2024 – February, 2025
Date: 18.02.2025
Examination Mode: Regular

Semester: 1st Semester
Subject Code: MDYT 105
Batch: September, 2024
Time: 09.45 am to 12.45 pm
Max. Marks: 100

General Instructions:

1. Read all the questions carefully and then start writing
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Reg No:

Short Notes (Attempt any Ten) – 2 Marks for each Question

10 *02 =20 Marks

1. What is the difference between population and sample?
2. What is a research problem?
3. What are the differences between quantitative and qualitative research?
4. What are the different data types? Give examples for each?
5. Main differences between an experimental and a quasi-experimental design
6. What are the different types of variables in a research study?
7. What is Z-scores? What is its usefulness?
8. What is bivariate analysis. Explain with examples
9. What is the difference between point estimate and interval estimate?
10. Explain the term 'Confidence Interval'
11. What is the definition of Reliability?
12. What are the components of a questionnaire?

Short Essay (Attempt any Eight) – 5 Marks for each Question

08 *05 =40 Marks

13. What are the qualities of a good researcher?
14. What are the differences between fundamental and applied research? Explain with some examples
15. What is meant by inclusion and exclusion criteria. Explain its purpose with examples.
16. What is meant by sampling method? What are the different types of sampling methods?
17. What is meant by randomization? What is its purpose? and what are the different ways randomization is done?
18. Explain the concept of Type-I and Type-II errors.
19. Explain the concept of correlation and the different correlation tests used in statistics
20. Write a note on measurement tools in psychological research
21. What is the need for yoga research?
22. What are the different types of hypotheses? Explain them with examples.

23. Write a detailed note on the purpose and importance of literature review.
24. Describe in detail the research processes involved in a research study
25. Write a detailed note on outliers and missing data
26. Explain in detail various t-tests, its assumptions and the statistics obtained by 't-tests'
27. Explain the process of Null Hypothesis Significance Testing in detail.
28. Explain in detail the concept of 'Validity' and its types in psychological research with examples.



Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA)
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Program: MD (Yoga)
Subject Name: Samskritam
Sem Period: September, 2024 – February, 2025
Date: 15.02.2025
Examination Mode: Regular

Semester: 1st Semester
Subject Code: MDYT 104
Batch: August, 2024
Time: 09.45 am to 12.45 pm
Max. Marks: 100

General Instructions:

1. Read all the questions carefully and then start writing
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Reg No:

Short Notes (Attempt any Ten) – 2 Marks for each Question

10 *02 =20 Marks

1. Write any 2 alpaprāṇas
2. Write any 2 ayogavāhas
3. Write any 2 saṃyuktākṣaras
4. Write in Devanagari- ष, षा
5. Write in IAST – ऋ, ॠ
6. Write the IAST of the following- दुर्गे दुर्गतिनाशिनि वन्दे
7. Write the संयुक्ताक्षर 'ligature' of the following-
a) द्+य्+अ, b) श्+र्+ई, c) क्+त्+अ d) क्+ष्+अ
8. Transliteration means same as translation. True/False?
9. The full form of IAST is
10. The script of Samskritam is called and English is called
11. The उच्चारणस्थान sutra for अनुनासिकs is
12. वकारस्य

Short Essay (Attempt any Eight) – 5 Marks for each Question

08 *05 =40 Marks

13. Write the following shloka in Devanagari
kṣaṇaśaḥ kaṇaśaścaiva vidyāmarthaṃ ca sādhaḥ |
kṣaṇe naṣṭe kuto vidyā kaṇe naṣṭe kuto dhanam ||
14. Write the वर्णमाला in IAST fully
15. Write the योगगणपतिमूलमन्त्र (of प्रार्थना मिलन) fully.
16. Write all the महाप्राण letters present in वर्णमाला in देवनागरी।
17. Write the दक्षिणामूर्तिगुरुस्तोत्र (of प्रार्थना मिलन) fully
18. Write the आनुपूर्वी of the following श्लोक
काराग्रे वसते लक्ष्मीः करमध्ये सरस्वती।
करमूले स्थिता गौरी प्रभाते करदर्शनम्॥

19. Write all the अवर्गीय letters present in वर्णमाला in देवनागरी।
20. Write the गुणिताक्षरs for any three व्यञ्जनs of your choice
21. Write all the वर्गपञ्चम letters present in वर्णमाला in देवनागरी।
22. Write the first stanza of वन्दे मातरम् song (of प्रार्थना मिलन)

Long Essay: (Attempt any Four) – 10 Marks for each Question

04* 10 =40 Marks

23. What are व्यञ्जनs and their kinds? Explain fully with examples
24. Explain संयुक्ताक्षरs and their types
25. Write all the गुणिताक्षर s for all these संयुक्ताक्षरs – ङ, श्व, श्र, द्र, स्य
26. Write all the उच्चारणस्थानसूत्रs अकुह etc.
27. Write these three shlokas in Devanagari script.

hayagrīva hayagrīva hayagrīveti yo vadet |
tasya nissarate vāṇī jahnukanyā pravāhavat ||

namaḥ sūryāya candrāya maṅgalāya budhāya ca |
guruśukraśanibhyaśca rāhave ketave namaḥ ||

mṛtyuñjayāya rudrāya nīlakaṅṭhāya śambhave |
amṛteśāya śarvāya mahādevāya te namaḥ ||

28. Write these three shlokas in IAST-

अ) शारदा शारदाम्भोजवदना वदनाम्बुजे ।
सर्वदा सर्वदास्माकं सन्निधिं सन्निधिं क्रियात् ॥

आ) गुरुरेव गतिर्गुरुमेव भजे गुरुणैव सहास्मि नमो गुरवे ।
न गुरोः परमं शिशुरस्मि गुरोः मतिरस्ति गुरौ मम पाहि गुरो ॥

इ) निधये सर्वविद्यानां भिषजे भवरोगिणाम् ।
गुरवे सर्वलोकानां दक्षिणामूर्तये नमः ॥

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

Program: MD (Yoga)
Subject Name: Vedas, Upanishads, and Darshanas
Sem Period: September, 2024 – February, 2025
Date: 20.02.2025
Examination Mode: Regular

Semester: 1st Semester
Subject Code: MDYT 103
Batch: September, 2024
Time: 09.45 am to 12.45 pm
Max. Marks: 100

General Instructions:

1. Read all the questions carefully and then start writing
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Short Notes (Attempt any Ten) – 2 Marks for each Question

10 *02 =20 Marks

1. What are the Purusharthas?
2. What is the meaning of word Upanishad?
3. What are the three-fold sufferings mentioned in the Samkhya Darshana?
4. What is the theory of Satkarya vada?
5. What are the Kleshas mentioned in Patanjali Yoga Sutra?
6. What is the speciality of Charvaka philosophy?
7. What does the word 'Anekantavada' means and why?
8. What is Arambhavada?
9. What does the word 'Jina' mean and why?
10. Epistemology of Nyaya darshana
11. What is the meaning of Uttara-Mimamsa and why it is called so?
12. Name the sub-schools of Vedanta

Short Essay (Attempt any Eight) – 5 Marks for each Question

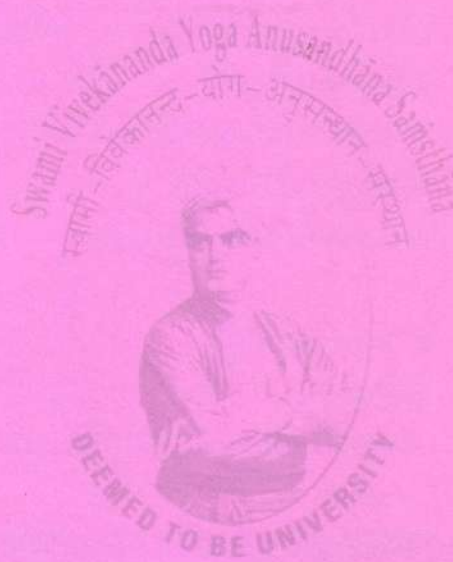
08 *05 =40 Marks

13. What are the Upavedas? What is their contribution to Indian culture?
14. What are the main Mahavakyas in Upanishad and explain them?
15. List the obstacles in the path of Yoga, as defined in Yoga Sutras of Patanjali.
16. Briefly explain the 'Ashtanga marga' of Buddhism
17. What is the theory of Pratityasamutpada-vada of Sri Buddha?
18. What is the difference between Satkarya vada and Asatkarya vada. Which among the Shad darshanas follows these theories of causation?
19. Briefly explain the Parmanu-sidhanta (atomic theory) of Vaisheshika Darshana
20. Briefly explain the main features of Vishistadvaita sub-school of Vedanta
21. Briefly explain the 'Four Noble truth' of Buddhism
22. Why Vedas are considered to be the foundation of Indian culture?

Long Essay: (Attempt any Four) – 10 Marks for each Question

04* 10 =40 Marks

23. Write a detailed note on happiness analysis based on Upanishadic wisdom.
24. Write in detail the science and technological developments seen in Vedic period.
25. Explain in detail the fundamentals of Samkhya Darshana and its main features
26. Write in the detail the metaphysics, epistemology, and the concept of bondage and liberation in Jaina philosophy'
27. Write in the detail the metaphysics, epistemology, and the concept of bondage and liberation in Sthaviravada Buddhism.
28. Explain in detail the metaphysics, epistemology and concept of bondage and liberation of Advaita Vedanta Darshana.



Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA)
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Program: MD (Yoga)
Subject Name: Yoga Medicine I
Sem Period: September, 2024 – February, 2025
Date: 13.02.2025
Examination Mode: Regular

Semester: 1st Semester
Subject Code: MDYT 101
Batch: August, 2024
Time: 09.45 am to 12.45 pm
Max. Marks: 100

General Instructions:

1. Read all the questions carefully and then start writing
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Reg No:

Short Notes (Attempt any Ten) – 2 Marks for each Question

10 *02 =20 Marks

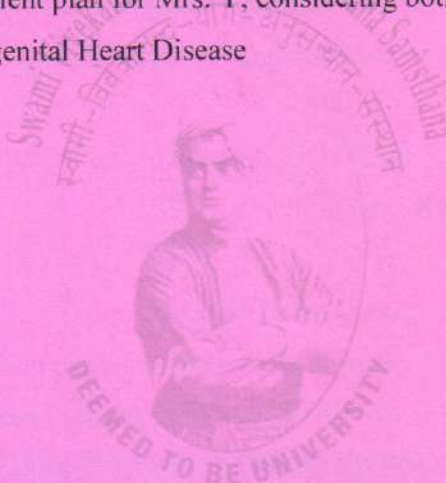
1. Type of Atelectasis
2. Ventilation – Perfusion Ratio
3. Samter's Triad
4. Difference between Obstructive & Restrictive Lung diseases
5. Radiological findings in Chronic Bronchitis & Emphysema
6. Chelation Therapy
7. Mention two risk factors for the development of Pulmonary Tuberculosis
8. Community acquired Pneumonia
9. Venous Return
10. Specific practices for Coronary Artery Diseases
11. What are the primary components of an atherosclerotic plaque?
12. Mention a diagnostic test commonly used in assessing vasculitis

Short Essay (Attempt any Eight) – 5 Marks for each Question

08 *05 =40 Marks

13. Oxygen – Haemoglobin Dissociation Curve
14. Difference between Extrinsic and Intrinsic Asthma
15. Raynaud's Phenomenon
16. Modified MRC Dyspnoea scale
17. Explain the role of Arachidonic acid in Asthma
18. Nervous mechanism for regulation of Blood Pressure
19. Brief on Antihypertensives
20. Explain Aneurysm in detail in relation Cardiovascular system
21. Explain the use of Neti for Rhino-Sinusitis
22. Patent Ductus Foramen

23. Chemical Mechanism of regulation of Respiration
24. Elaborate on the role of pulmonary rehabilitation in the comprehensive management of COPD
25. Explain therapeutic effects of Shatkarmas on respiratory disorders
26. Is Kapalabhati and Bhastrika contraindicated in patients with Cardiovascular diseases? Explain with possible mechanisms
27. Mrs. Y, a 62-year-old postmenopausal woman, is admitted to the hospital with a diagnosis of acute myocardial infarction (AMI). She has a past medical history of diabetes mellitus, hypertension, and a family history of cardiovascular disease. Mrs. Anderson has been a smoker for several years and has not been compliant with her medications. During the hospital stay, coronary angiography confirms severe atherosclerotic lesions in her coronary arteries. Provide a detailed discussion on the pathophysiology of atherosclerosis in this case, the contributing risk factors, complications, and the comprehensive management plan for Mrs. Y, considering both acute and long-term aspects
28. Explain in detail about Congenital Heart Disease



Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA)
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Program: MD (Yoga)
Subject Name: Yoga Medicine III
Sem Period: September, 2024 – February, 2025
Date: 13.02.2025
Examination Mode: Regular

Semester: 3rd Semester
Subject Code: MDYT 301
Batch: August, 2023
Time: 09.45 am to 12.45 pm
Max. Marks: 100

General Instructions:

1. Read all the questions carefully and then start writing
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Reg No:

Short Notes (Attempt any Ten) – 2 Marks for each Question

10 *02 =20 Marks

1. Write about Grading of Osteoarthritis
2. What is Muscular Dystrophy?
3. Define osteoporosis. Mention any 2 causes
4. Mention the clinical features of SLE
5. Name two biomarkers used in the diagnosis and monitoring of IBD
6. Gastro- colic Reflux
7. What type of disease is IBS according to yoga? Justify your answer
8. Causes of Acid Peptic Disease
9. Non-Excretory functions of Kidney
10. Differentiate Nephritic and Nephrotic Syndrome
11. Juxta- glomerular Apparatus
12. Glomerulonephritis

Short Essay (Attempt any Eight) – 5 Marks for each Question

08 *05 =40 Marks

13. Explain the Role of Autoantibodies in development of Myasthenia Gravis. Add a note on clinical features
14. Resting leg syndrome. Mention its causes, symptoms, and pathophysiology. What type of disease is Resting leg syndrome according to yoga?
15. What is scleroderma, clinical features, signs, and symptoms.
16. Compare and contrast the clinical features, histological findings, and diagnostic criteria for Crohn's disease and ulcerative colitis
17. Increasing evidence has associated gut microbiota to both gastrointestinal and extra gastrointestinal diseases. Justify
18. Awareness is half a solution to a problem. How do you apply this in digestive disorders?
19. Explore the potential comorbidities and psychological aspects often associated with fibromyalgia. How can yogic approach benefit patients in managing this condition?
20. Pyelonephritis. Types and pathophysiology, Investigations

21. Write definitions and pathophysiology of gout

22. Mention the different stages and pathophysiology of NAFLD

Long Essay: (Attempt any Four) – 10 Marks for each Question

04* 10 =40 Marks

23. A 69 old female came with a chief complaint of pain in increased bilateral knee pain since past 1 and ½ years. She finds it difficult to climb up stairs and waling for a long duration. She is a known case of Type 2 Diabetes Mellitus and Hypothyroidism and Hypertension since past 5 years. Plan a detailed management through yoga therapy with relevant scientific evidences.
24. The parents carry a 7-year-old boy to the clinic for trouble walking. The child walked at 13 months old. He often falls walking and tends to walk on his toes. His mother's brother had similar characteristics and passed away in his twenties. Examination shows deteriorated hip musculature, pelvic instability, B/L calf enlargement, and Gower sign positive. Briefly explain the condition and how do you consider yoga as an effective therapeutic strategy
25. Summarize the scientific evidence on the physiological and therapeutic effects of the Shatkarmas on digestive disorders.
26. A 36-year-old woman comes to the office due to nonbloody diarrhea and intermittent abdominal pain for the past two months. She describes the pain as crampy and located in the mid-abdomen. She believes some diet items exacerbate symptoms. Abdominal examination shows mild tenderness in the right lower quadrant without rebound or rigidity. Her Hb is 10.4g/dl, Leukocytes 15,600/mm³, Platelets 4,90,000/mm³, ESR is 68mm/hr. Explain the condition in detail with yogic management.
27. What are the cleansing procedures that help digestive disorders with evidence-based mechanism of action?
28. A 58-year-old male with a history of hypertension, presents to the emergency department with lower back pain, swelling in his legs, and a decrease in urine output. Laboratory results reveal elevated serum creatinine levels, decreased glomerular filtration rate (GFR), proteinuria, and haematuria. Write a detailed aims and objective for managing this patient and potential role of yoga.