

GUJARAT AYURVED UNIVERSITY, JAMNAGAR.  
BACHELOR OF NATUROPATHY AND YOGA SCIENCES (B.N.Y.S.)  
FIRST YEAR EXAMINATION JULY-2021  
SANSKRUTA EVAM SIDDHANTA

Date :- 15.07.2021  
Thursday

Time :- 10:00 a.m. to 01:00 p.m.  
Total Marks :- 100

- Instructions: 1. Every question is compulsory.  
2. Every question bears the marks written on the right side.

SECTION-A

1. Describe the उच्चारण स्थान (articulatory places) and प्रयत्न (effort). 10
2. Answer any **one** out of two questions: 10
  - A. Enumerate and enlist the karak (cases) and explain th Chaturthi and Panchmi Vibhakti.
  - B. Defining participle, describe its types and give their suitable example.
3. Write short notes on any **Four** questions: 20
  - A. Differentiating between विभक्ति: and कारक, enumerate and enlist the कारक.
  - B. Give the Sanskrit word for the following:  
1. Donkey 2. Tiger 3. Crocodile 4. Father 5. Brother
  - C. Find of the verbs from the following sentences and identify them.
    1. बालकौ विद्यालयम् गच्छतः।
    2. मेघः आकाशे गर्जति ।
    3. रामः लंकानगरीं अगच्छत् ।
    4. अहं पुस्तकं अपठम् ।
    5. पितय सुखाय भवति ।
  - D. Write all the three forms of the roots as directed:
    1. पिब् - future tense third person (प्रथम पुरुष)
    2. स्मृ - present tense second person (मध्यम पुरुष).
    3. गम् - present tense second person (मध्यम पुरुष).
    4. लिख् - imperative third person (प्रथम पुरुष).
    5. नम् - future tense first person (उत्तम पुरुष).
  - E. Prepare one sentence from each of the following verbs:  
(A) करिष्यामि (B) पश्यतः (C) अपिबन् (D) पठथः (E) कीडामः
4. Answer any **Five** questions (two to three sentences): 10
  - A. Make one sentence each using the adjective उष्ण and शीत.
  - B. How many Matra are there in ह्रस्व, दीर्घ प्लुत.
  - C. Write first three maheshwar Sutras.
  - D. Write the form of present tense in second person of the following roots:
    1. लिङ् 2. अट् 3. गम् 4. पत्
  - E. Write the form of the following roots as directed:
    1. कीड् - present tense first person (उत्तमपुरुष).
    2. कृ - present tense second person (मध्यम पुरुष).
  - F. Give two example of Avyaya with their meaning.

**SECTION-B**

1. Define Pramana and detail the Yukti & Upamana Pramana. 10
2. Answer any one question: 10
  - A. What is Shad Padartha? Explain the Utility & Importance of Samanya-Vishesha.
  - B. What is Brihatrayi? Describe the formation of Sushruta Samhita with its importance.
3. Answer any **Four** questions: 20
  - A. Write a short note on "Atreya School".
  - B. Write a short note on "Types of Anumana Pramana".
  - C. Who is an Apta? Describe the importance of Aptopadesha.
  - D. Write a short note on "Classification of Dravya".
  - E. Differentiate between Samanya and Vishesha.
4. Answer any **Five** questions : 10
  - A. What is Prama?
  - B. Name the types of kaala.
  - C. Write the definition of Ayurveda.
  - D. Define Disha.
  - E. What is Pratyaksha?
  - F. Which subject is detailed in the Madhava Nidana?

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Date :- 16.07.2021

Friday

Time :- 10:00 a.m. to 01:00 p.m.

Total Marks :- 100

- Instructions: 1. Every question is compulsory.  
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**SECTION-A**

1. Define Garbha and describe Garbha Vriddhikara Bhav. 10  
2. Enlist upper limb bones and describe radius bone. 10

**OR**

Enlist lower limb bones and describe Tibia bone.

3. Write short notes on any **Four** of the following : 20  
A. Write short note on "Pesi" and "Snayu"  
B. Write short note on "Types of Sandhi"  
C. Write short note on "Types of bone"  
D. Write short note on "Lungs"  
E. Write short note on shoulder joint.

4. Answer any **Five** of the following :(two to three sentences) 10  
A. Define "Sarira" and "Sharira"  
B. According to Sushrut Samhita, How many bones are present in human body.  
C. Enlist the types of muscles.  
D. Give location and functions of bronchioles.  
E. Enlist the body cavities.  
F. Write location of trachea.

**SECTION-B**

5. Explain the surface anatomy and detailed study of Liver. 10  
6. Explain Cardio-vascular system. 10

**OR**

Give a brief detail about Pancreas

7. Write short notes on any **Four** of the following : 20  
A. Write short note on "Rakta"  
B. Write short note on "Spleen"  
C. Write short note on "Amashaya"  
D. Give composition of Lymph and describe lymphatic circulation.  
E. Write a short note on "Duodenum"

8. Answer any **Five** of the following :(two to three sentences) 10  
A. What is meant by "Shira"  
B. Give composition of Plasma  
C. Write functions of Thrombocytes.  
D. What is meant by "Unduka"  
E. Name the types of salivary gland and their location  
F. Give location of tricuspid valve.

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**FIRST YEAR EXAMINATION JULY-2021**

**HUMAN ANATOMY – 2**

Date :- 17.07.2021  
 Saturday

Time :- 10:00 a.m. to 01:00 p.m.  
 Total Marks :- 100

- Instructions: 1. Every question is compulsory.  
 2. Every question bears the marks written on the right side.

SECTION-A		
1.	Enlist the organs of Urinary system and explain the kidney in detail.	10
2.	Answer any one question:	10
	A. Explain the yoni and Garbhashaya in detail.	
	B. Describe the classification of glands and explain the thyroid gland in detail.	
3.	Answer any <b>Four</b> questions:	20
	A. Importance of Marma.	
	B. Basti.	
	C. Anjali Pramana.	
	D. Testis.	
	E. Ovary.	
4.	Answer any <b>Five</b> questions :	10
	A. Gavini.	
	B. Vas deferens.	
	C. Stapani Marma.	
	D. Write the Location of Pituitary Gland.	
	E. Write the Location of Prostate Gland.	
	F. Define Anguli Pramana.	
SECTION-B		
5.	Describe the classification of nervous system in detail.	10
6.	Answer any one question:	10
	A. Write the definition and types of strotas according to Acharya Sushruta.	
	B. Explain the ear in detail.	
7.	Answer any <b>Four</b> questions:	20
	A. Anaahata chakra.	
	B. Brachial Plexus.	
	C. Introduction of Indriya Sharira.	
	D. Layers of Twacha according to Acharya Charaka	
	E. Cranial Nerves.	
8.	Answer any <b>Five</b> questions :	10
	A. Ila Nadi.	
	B. Motor Nerve.	
	C. IRIS.	
	D. Write the location of Anjina chakra.	
	E. Introduction of Acquous humor.	
	F. Define Netra mandala.	

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HUMAN PHYSIOLOGY - I

Date :- 19.07.2021

Monday

Time :- 10:00 a.m. to 01:00 p.m.

Total Marks :- 100

- Instructions: 1. Every question is compulsory.  
2. Every question bears the marks written on the right side.

SECTION-A

1. Explain Manas Prukruti in Details. 10
2. Answer any one question. 10
  - A. Describe the function of Dosha in Details.
  - B. Describe the Srotas along with their classification & function.
3. Answer any **Four** questions: 20
  - A. Write a short note on Bio-Electrical Potential.
  - B. Write a short note on function of Asthi Dhatu.
  - C. Explain the relation between Chestavaha Srotas & Mana.
  - D. Write a short note on Dhatvagni.
  - E. What is membrane ? Describe its functions.
4. Answer any **Five** questions: 10
  - A. What is Homeostasis?
  - B. Enlist Mala.
  - C. Define words: Kaya and Deha.
  - D. Name the cell membrane.
  - E. Define Moola of Pranavaha Srotas.
  - F. What is Dhatuposhana ? Write the name of Dhatuposhana Nyaya.

SECTION-B

5. Write the physical properties and function of blood. 10
6. Answer any one question. 10
  - A. Describe muscles.
  - B. Describe the metabolism of fat in detail.
7. Answer any **Four** questions: 20
  - A. Write a short note on portal circulation.
  - B. Describe mechanism occur during vomiting.
  - C. Write a short note on cardiac cycle.
  - D. Write a short note on cerebellum.
  - E. Write a short note on physiological relevance of Anemia & Jaundice.
8. Answer any **Five** questions: 10
  - A. Enlist Ahara Parinamkara Bhava.
  - B. Define heart sound.
  - C. What are the functions of saliva ?
  - D. Classify nerve conduction.
  - E. What is blood group ?
  - F. Enlist nerve fibers.

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FIRST YEAR EXAMINATION JULY-2021

**HUMAN PHYSIOLOGY – 2**

Date :- 20.07.2021  
Tuesday

Time :- 10:00 a.m. to 01:00 p.m.  
Total Marks :- 100

- Instructions: 1. Every question is compulsory.  
2. Every question bears the marks written on the right side.

**SECTION-A**

1. Describe composition of urine and excretion. 10
2. Answer any one question: 10
  - A. Describe respiration according to Sharangdhara Samhita.
  - B. What is Semen? Describe spermatogenesis.
3. Answer any **Four** questions: 20
  - A. Write a short note on function of pancreatic gland.
  - B. Write a short note on secondary sex characters of male and female.
  - C. Write short note on mechanism of sweating and temperature regulation by skin study.
  - D. Write short note on Thymus gland.
  - E. Write a short note on differentiation and chromosomal study.
4. Answer any **Five** questions : 10
  - A. Write the full form of UPT.
  - B. Write the name of female gonadotropins.
  - C. What is TSH ?
  - D. Enlist the normal functions of skin.
  - E. Define normal volume of the alveolar ventilation.
  - F. Define Veeryotpatti.

**SECTION-B**

5. Write introduction of Indriyas along with physiology of touch. 10
6. Answer any one question: 10
  - A. Explain the physiology of sleep.
  - B. Describe the functional classification of receptor in details.
7. Answer any **Four** questions: 20
  - A. Write a short note on learning and speech.
  - B. Write a short note on sympathetic nervous system.
  - C. Write a short note on Immunity.
  - D. Write a short note on function of Shatchakras.
  - E. Write a short note on functional aspects of reflexes.
8. Answer any **Five** questions : 10
  - A. Write the full form of EEG.
  - B. Enlist the function of Shushumana Nadi.
  - C. Enlist the name of any two reflexes.
  - D. Enlist the receptors.
  - E. Define hypothermia.
  - F. Define normal temperature.

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**FIRST YEAR EXAMINATION JULY-2021**

**BIO-CHEMISTRY**

Date :- 22.07.2021  
Thursday

Time :- 10:00 a.m. to 01:00 p.m.  
Total Marks :- 100

- Instructions: 1. Every question is compulsory  
2. Every question bears the marks written on the right side

**SECTION - A**

1. Define lipids and write detailed classification of fatty acids. [10]
2. Write about the different transport mechanisms across the membrane in a cell. [10]

OR

Write a note on various methods of enzyme inhibition

3. Write short notes on any Four of the following: [20]
  - A. Glycolysis pathway
  - B. Iso-enzymes
  - C. Structural organization of proteins
  - D. Structure and functions of mitochondria and Endoplasmic reticulum
  - E. Prostaglandins
4. Answer any Five of the following (two to three sentences) [10]
  - A. What are the diagnostic symptoms of Diabetes mellitus?
  - B. What are Polysaccharides? Give examples.
  - C. Enlist any four biological functions of carbohydrates.
  - D. What are D- and L- isomers?
  - E. How can we classify amino acids on the basis of nutritional value? Give examples
  - F. What are coenzymes? Give examples.

**SECTION - B**

5. Give a detailed description of structure of DNA. [10]
6. Write a note on metabolism of xenobiotics. [10]

OR

Write a note on feed fast cycle

7. Write short notes on any Four of the following: [20]
  - A. Kwashiorkor
  - B. Acidosis
  - C. Vitamin B<sub>7</sub>
  - D. Iron as a micro nutrient
  - E. F<sub>1</sub>-F<sub>0</sub> ATPase
8. Answer any Five of the following (two to three sentences) [10]
  - A. What is specific dynamic action?
  - B. What are leading and lagging strands?
  - C. What is nutritional healing?
  - D. Define Beer's and Lambert's law.
  - E. Name the diseases caused by deficiency of Vitamin A, D, C and B<sub>12</sub>.
  - F. Define DNA Transcription

Date :- 23.07.2021

Friday

Time :- 10:00 a.m. to 01:00 p.m.

Total Marks :- 100

- Instructions: 1. Every question is compulsory.  
2. Every question bears the marks written on the right side.

**SECTION-A**

1. Objectives and importance of Yoga in present era. 10  
2. Contribution of any two ancient personalities in the field of Yoga. 10

**OR**

Describe about the Bihar School of Yoga in detail.

3. Write short notes on any **Four** of the following : 20  
A. Write a short note on : Raja Yoga  
B. Write a short note on : Life Sketch of Swami Satyanand Saraswati  
C. Write a short note on : Shiv Samhita  
D. Write the contribution of Yoga and Kriya text.  
E. Give the introduction of Maharshi Mahesh Yogi Foundation.  
4. Answer any **Five** of the following :(two to three sentences) 10  
A. Write the contents of Yoga Vashishtha.  
B. What is Karma Yoga ?  
C. Write in brief: contribution of Dharendra Brahmachary  
D. Write the time period and author of Yoga Philosophy and Religion.  
E. Write the name of texts written by Swami Kvalyananda  
F. Write the time period and author of Hath Pradeepika.

**SECTION-B**

5. Development of Nisargopachara in abroad. 10  
6. Describe the contribution of Adolf Just in the field of Nisargopachara. 10

**OR**

Detail introduction of Nisargopachar Ashram, Urulikanchan.

7. Write short notes on any **Four** of the following : 20  
A. Write a short note on : Dr. S.J. Singh  
B. Write a short note on : Dr. Sukhbirsingh  
C. Educational and research activities in the field of Nisargopachara by GAU  
D. Write a short note on : J.H. Kellogs  
E. Write a short note on : Dr. E.D. Babbit  
8. Answer any **Five** of the following :(two to three sentences) 10  
A. Write the contribution of sigmond freud.  
B. Objectives of Nisargopachara.  
C. Write the name and establishment year of the Nisargopachara centre in Gorakhpur.  
D. Enlist the works by Aesculapius.  
E. Enlist the books written by Louis kuhne.  
F. Write the full form and establishment year of CCRAS.

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