

GUJARAT AYURVED UNIVERSITY, JAMNAGAR.  
BACHELOR OF NATUROPATHY AND YOGA SCIENCES (B.N.Y.S.)  
FIRST YEAR EXAMINATION APRIL-2022  
SANSKRUTA EVAM SIDDHANTA

Date :- 04.04.2022  
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. Write the “उच्चारण स्थान” for the all alphabets. 10
2. Answer any **one** out of two questions: 10
  - A. How many विभक्ति: are there? Explain तृतीयाविभक्ति:
  - B. Explain the total number of लकार used in Sanskrit language with their names and uses giving suitable examples of any five of them.
3. Write short notes on any **Four** questions: 20
  - A. Explain चतुर्थी विभक्ति:
  - B. Give the Sanskrit word for the following:  
1. Puppy 2. Deer 3. Crocodile 4. Father 5. Brother
  - C. Find out of the verbs from the following sentences and identify them.  
1. अहं नगरं गच्छामि ।  
2. मार्गे मृगाः धावन्ति ।  
3. रामः लंकानगरीं गमिष्यति ।  
4. मया पुस्तकं पठ्यते ।  
5. विनय सुखाय भवति ।
  - D. Write all the three forms of the roots as directed:  
1. वद् - future tense third person (प्रथम पुरुष).  
2. स्मृ - present tense second person (मध्यम पुरुष).  
3. पच् - present tense second person (मध्यम पुरुष).  
4. लिख् -imperative third person (प्रथम पुरुष).  
5. कृध् - future tense first person (उत्तम पुरुष)
  - E. Prepare one sentence from each of the following verbs:  
(A) खादन्तु (B) वदिष्यति (C) पश्यति (D) पठथः (E) क्रीडामः
4. Answer any **Five** questions (two to three sentences): 10
  - A. Make one sentence each using the adjective श्याम and श्वेत.
  - B. How many Matra are there in ह्रस्व, दीर्घ & प्लुत.
  - C. Write last three Maheshwar Sutras.
  - D. Write the form of present tense in second person of the following roots:  
1. वन्द् 2. चुर् 3. धाव् 4. पत्
  - E. Write the form of the following roots as directed:  
1. क्रीड् - present tense first person (उत्तमपुरुष).  
2. कृ - present tense second person (मध्यम पुरुष).
  - F. Make one sentence each using the indeclinable बहिः and अन्तः.

\*\*\*\*\*

### SECTION-B

1. Define the word Pramana and describe the Pratyaksha Pramana. 10
2. Answer any one question: 10
  - A. Name the Shad Padartha and describe the classification of Dravya.
  - B. Explain the "Brihatrayi" in detail.
3. Answer any **Four** questions: 20
  - A. Write a short note on "Dhanvantari School".
  - B. Write a short note on "Madhav Nidan".
  - C. What is "Disha"? Name its types and importance in Ayurveda.
  - D. Write a short note on "Yukti Pramana".
  - E. Write the definition of Ayu and explain its types.
4. Answer any **Five** questions : 10
  - A. Enlist Ashtang Ayurved.
  - B. Define "Samanya".
  - C. Define the word "Kaala".
  - D. What is Prameya?
  - E. What is Mahabhuta?
  - F. Enlist the types of Vishesha.

\*\*\*\*\*

**GUJARAT AYURVED UNIVERSITY, JAMNAGAR.**  
**BACHELOR OF NATUROPATHY AND YOGA SCIENCES (B.N.Y.S.)**

**FIRST YEAR EXAMINATION APRIL-2022**

**HUMAN ANATOMY - 1**

Date :- 05.04.2022  
 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.

<b>SECTION-A</b>		
1.	Describe the Panchabhautikatva and Shadangatva of Sharira in detail.	10
2.	Answer any one question:	10
A.	Write the types of bones according to western concept.	
B.	Enlist the organs of respiratory system and explain the pharynx in detail.	
3.	Answer any <b>Four</b> questions:	20
A.	Introduction of Tissue.	
B.	Introduction of Snayu.	
C.	RIBS.	
D.	Garbha Vriddhikara Bhava.	
E.	Write the origin , insertion, nerve supply and action of Triceps Muscile.	
4.	Answer any <b>Five</b> questions :	10
A.	Define Mesoderm.	
B.	Define Fetus.	
C.	Define Cavities.	
D.	What is Mediastinum?	
E.	Definition of Peshi.	
F.	Definition of Sandhi.	
<b>SECTION-B</b>		
5.	Enlist the organs of digestive system and explain the stomach in detail.	10
6.	Answer any one question:	10
A.	Explain the composition and circulation of Lymph in detail.	
B.	Describe the Mukha guha and Pittashaya in detail.	
7.	Answer any <b>Four</b> questions:	20
A.	Introduction of Hridaya.	
B.	Shuddha Rakta lakshana.	
C.	Portal Circulation.	
D.	White Blood Cell.	
E.	Peritoneum.	
8.	Answer any <b>Five</b> questions :	10
A.	Write the Blood supply of Liver.	
B.	Write the Location of Rectum.	
C.	Write the Difference between Sira and Dhamanee. (any two)	
D.	Define Unduka.	
E.	Define Superior Vena cava.	
F.	Define Aorta.	

\*\*\*\*\*

Date :- 06.04.2022  
Wednesday

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 female Reproductive Organs and Describe OVARY. 10
2. Define Marma and Describe Sadhya Pranhar Marma. 10

OR

Enlist Male Reproductive system and Describe Testis.

3. Write short notes on any **Four** of the following : 20
  - A. Thyroid Gland.
  - B. Hypothalamus
  - C. Anjali Pramana
  - D. Vaikalyakar marma
  - E. Urinary bladder.

4. Answer any **Five** of the following :(two to three sentences) 10
  - A. Enlist Parts of male Urethra.
  - B. Enlist Ligaments of Uterus.
  - C. Define Rujakarmarma.
  - D. Location of Suprarenal gland.
  - E. Which Gland is responsible for Lowering calcium ion in blood.
  - F. What is Malphigian Body.

### SECTION-B

5. Define SROTAS and Describe it. 10
6. Describe Brain and Spinal cord. 10

OR

Enlist the Name of INDRIYA and Describe eye in detail.

7. Write short notes on any **Four** of the following : 20
  - A. Brachial Plexus.
  - B. Cranial nerve.
  - C. Pranvaha Srotas.
  - D. Nadi according to ancient context.
  - E. TWACHA

8. Answer any **Five** of the following :(two to three sentences) 10
  - A. Length and Weight of Spinal cord of human being.
  - B. Function of cerebellum.
  - C. Name of moolas of Medovaha srotas.
  - D. How many layers of the skin according to Sushruta Samhita.
  - E. Name the canal joining middle ear and pharynx.
  - F. How many papille are present in human tongue and Name them.

\*\*\*\*\*

**GUJARAT AYURVED UNIVERSITY, JAMNAGAR.**  
**BACHELOR OF NATUROPATHY AND YOGA SCIENCES (B.N.Y.S.)**  
**FIRST YEAR EXAMINATION APRIL-2022**

**HUMAN PHYSIOLOGY - 1**

Date :- 07.04.2022

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 Mala in details. 10
2. Answer any one question. 10
  - A. Write about the general function of cell.
  - B. Describe the detail function of Vata.
3. Answer any **Four** questions: 20
  - A. Describe the importance of body fluid.
  - B. Write a short note on Manas Prakruti.
  - C. Write a short note on function of Mana.
  - D. Write a short note on function of Pitta.
  - E. Write a short note on Agni.
4. Answer any **Five** questions: 10
  - A. Enlist the type of Kapha.
  - B. What is meant by Homeostasis?
  - C. Write the composition of membrane.
  - D. Define Physiology.
  - E. Enlist the function of Sleshak Kapha.
  - F. Enlist four characteristic of Pitta Prakruti person.

**SECTION-B**

5. Describe the function of stomach along with composition of gastric juice. 10
6. Answer any one question. 10
  - A. Describe the function of blood.
  - B. Describe the Cardiac Cycle.
7. Answer any **Four** questions: 20
  - A. Write a short note on Anticoagulants.
  - B. Write a short note on Anemia.
  - C. Write a short note on functional classification of nerve fiber.
  - D. Write a short note on cerebellum.
  - E. Write a short note on Digestion and Absorption of fat.
8. Answer any **Five** questions: 10
  - A. What is blood group ?
  - B. Name the salivary glands.
  - C. Define Nisthapaka.
  - D. Enlist Ahara Parinamkara Bhava.
  - E. What is plasma protien.
  - F. Enlist the type of nerve conduction tests.

\*\*\*\*\*

**GUJARAT AYURVED UNIVERSITY, JAMNAGAR.**  
**BACHELOR OF NATUROPATHY AND YOGA SCIENCES (B.N.Y.S.)**  
**FIRST YEAR EXAMINATION APRIL-2022**

**HUMAN PHYSIOLOGY – 2**

Date :- 08.04.2022  
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. Explain the urine formation according to ancient texts. 10
2. Answer any one question: 10
  - A. Describe ovary in details.
  - B. Explain the mechanism of respiration.
3. Answer any **Four** questions : 20
  - A. Write a short note on function of pituitary gland.
  - B. Write a short note on mechanism of micturition.
  - C. Write a short note on spermatogenesis.
  - D. Write a short note on pineal gland.
  - E. Write a short note on physiological base for laboratory test of ovulation.
4. Answer any **Five** questions : 10
  - A. Enlist the type of labour.
  - B. Normal value of urine out-put per day.
  - C. What are Pseudo hermaphrodites.
  - D. Write the normal lung volume in healthy male.
  - E. Mention the temperature regulatory center.
  - F. Write the composition of semen.

**SECTION-B**

5. What is Oja ? Write it's function and importance in detail. 10
6. Answer any one question: 10
  - A. Describe the function of Jnanendriya & Karmendriya.
  - B. Explain the physiology of hearing in details.
7. Answer any **Four** questions : 20
  - A. Write a short note on cellular and hormonal immunity.
  - B. Write a short note on functional aspects of various Nadis.
  - C. Write a short note on hypothermia.
  - D. Describe behaviour and emotions.
  - E. Write a short note on para-sympathetic nervous system.
8. Answer any **Five** questions : 10
  - A. Write the name of any four cranial nerve.
  - B. Enlist the function of Ida Nadi.
  - C. What is stereognosis ?
  - D. Enlist the name of Shatachakras.
  - E. Enlist the types of Bala.
  - F. Define Pyrexia.

\*\*\*\*\*

**GUJARAT AYURVED UNIVERSITY, JAMNAGAR.**  
**BACHELOR OF NATUROPATHY AND YOGA SCIENCES (B.N.Y.S.)**  
**FIRST YEAR EXAMINATION APRIL-2022**

**BIO-CHEMISTRY**

Date :- 09.04.2022  
 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.	Define and classify proteins.	10
2.	Answer any one question:	10
	A. Write a note on glycolysis.	
	B. Describe in brief various methods of enzyme inhibition.	
3.	Write short notes on any <b>Four</b> questions:	20
	A. Active transport mechanism	
	B. Structure and mechanism of action of an enzyme	
	C. Diabetes mellitus	
	D. Ketone bodies	
	E. Nitrogen balance	
4.	Answer any <b>Five</b> questions (two to three sentences):	10
	A. Define osmosis.	
	B. Define Km value.	
	C. Write full forms of HMP and TCA cycles.	
	D. What are compound lipids? Give examples.	
	E. What are the causes and symptoms of phenylketonuria?	
	F. Define carbohydrates. Give examples.	
SECTION-B		
5.	Write a note on Vitamin A.	10
6.	Answer any one question:	10
	A. Write a note on DNA replication.	
	B. Write a note on liver function tests.	
7.	Write short notes on any <b>Four</b> questions:	20
	A. Genetic code	
	B. Classification of minerals	
	C. Complex I of ETC	
	D. Acidosis	
	E. Kwashiorkor	
8.	Answer any <b>Five</b> questions (two to three sentences):	10
	A. What are the roles of: a. DNA polymerase b. DNA helicase	
	B. Write key biological roles of: a. Calcium b. Iron	
	C. What are high energy compounds? Give examples.	
	D. What are xenobiotics? Give examples.	
	E. What are the biochemical characteristics of cancer?	
	F. Name vitamins which have the following key roles: a. Bone formation b. Healthy foetus development	

\*\*\*\*\*

GUJARAT AYURVED UNIVERSITY, JAMNAGAR.  
BACHELOR OF NATUROPATHY AND YOGA SCIENCES (B.N.Y.S.)  
FIRST YEAR EXAMINATION APRIL-2022  
HISTORY OF YOGA AND NATUROPATHY

Date :- 11.04.2022  
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. Define Yoga, Objectives and importance of Yoga in details. 10
2. Answer any one question: 10
  - A. Write a details information of Gorakha Samhita.
  - B. Define a details introduction of Shiva Samhita.
3. Write short notes on any **Four** of the following : 20
  - A. Write a short note on :- Yoga and kriya by Bihar School of Yoga.
  - B. Write a short note on :- Life sketch of Swami Dayananda Sarasvti.
  - C. Write a short note on :- Shiva Svarodaya.
  - D. Write a short note on :- Krishnamachari Yoga Mandiram - Chennai.
  - E. Write a short note on :- Life sketch of Swami Satyananda Saraswati.
4. Answer any **Five** of the following :(two to three sentences) 10
  - A. Write the full form and place of SVYASA.
  - B. Enlist any four publications by Bihar School of Yoga, Munger.
  - C. Write the place and date of establishment of Maharshi Mahesha Yogi Foundation.
  - D. Enlist any five chapters of Shrimada Bhagvad Geeta.
  - E. Write any two works authored by B.K.S. Iyengar.
  - F. Write the full form and place of M.P.I.Y.N.E.R.

**SECTION-B**

5. Contribution of Mahatma Gandhi & Vegiraju Krishnamraju in Naturopathy. 10
6. Answer any one question: 10
  - A. Roots of Nisargopachar in Vedic & Ayurvedic literatures.
  - B. Write about definition, objectives & importance of Nisargopachara.
7. Write short notes on any **Four** of the following : 20
  - A. Details of Jindal Naturopathy Institute.
  - B. Hippocrates.
  - C. Educational & Reasearch activities in GAU.
  - D. Details of Nisargopachar Kendra, Gotri.
  - E. Sebastein Kneipp.
8. Answer any **Five** of the following :(two to three sentences) 10
  - A. Works of NIN.
  - B. Works of Dr. E.D. Babbit..
  - C. Full form name of CCRYN.
  - D. Father of Naturopathy in India.
  - E. Two books written by Henry Lindlhar.
  - F. Introducer of "Spinal bath tub".

\*\*\*\*\*