

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

FIRST YEAR EXAMINATION OCTOBER-2019

SANSKRUTA EVAM SIDDHANTA

Date :- 07.10.2019
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. Describe the उच्चारण स्थान (articulatory places) and प्रयत्न (effort). 10
2. Enumerate and enlist the karakas and explain the Chaturth and Panchmi Vibhakti. 10

OR

Explain the total number of लकार use in Sanskrit language with their names and uses giving suitable examples of any five of them.

3. Write short notes on any **Four** of the following : 20

- A. Explain सप्तमी विभक्तिः
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 ग्रामं गच्छामि ।
2. मार्गं मृगाः धावन्ति ।
3. रामः वनम् 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. (अन्य पुरुष)
2. स्मृ – present tense second person. (मध्यम पुरुष)
3. पच् – present tense second person. (मध्यम पुरुष)
4. लिख् - imperative third person. (अन्य पुरुष)
5. पठ् - future tense first person. (उत्तम पुरुष)
E. Prepare one sentence from each of the following verbs:
1. तिष्ठति 2. वदिष्यति 3. वदतु 4. स्मरति 5. क्रीडामः

4. Answer any **Five** of the following :(two to three sentences) 10

- A. How many Matra are there in हस्व, दीर्घ & प्लुत.
B. Make one sentence each using indeclinable यावत् and तावत्.
C. Make one sentence each using the adjectives श्वेत and श्याम.
D. Write the form of present tense in second person of the following roots:
1. गम् 2. चूर् 3. धाव् 4. वन्द्
E. Give detail identification of the forms :
1. पठानि 2. भवति
F. Write first two Maheshwar Sutras.

[P.T.O.]

SECTION-B

5. Explain the definition of AYU and AYURVED 10

6. Briefly describe PRAMANA according to SUSHRUTA SAMHITA. 10

OR

Write an essay on DRAVYA

7. Write short notes on any **Four** of the following : 20

A. Enlist "DISHA" and briefly explain its utility in Ayurveda.

B. VISHESHA

C. KALA

D. ANUMANA

E. Characteristics of "APTOPADESH"

8. Answer any **Five** of the following :(two to three sentences) 10

A. Enlist MAHABHUTA.

B. Define YUKTI.

C. Define DRAVYA.

D. How many branches of Ayurveda? Enlist.

E. Define DRAVYA.

F. What is the meaning of BRUHADTRAYI ?

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HUMAN ANATOMY - 1

Date :- 09.10.2019
 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.	Write the definition of Garbha and explain the Garbhavruddhikara bhava in detail.	10
2.	Answer any one question:	10
	A. Enlist the organs of respiratory system and explain the Larynx in detail.	
	B. Describe the types of asthi according to eastern concept.	
3.	Answer any Four questions:	20
	A. Introduction of Cell.	
	B. Formation of Germ layers.	
	C. Clavicle Bone.	
	D. Introduction of Peshi.	
	E. Panchabhautikatva of Sharira.	
4.	Answer any Five questions :	10
	A. Definition of Shaarira.	
	B. Write the Name of Carpal Bones.	
	C. Write the differences between Embryo and Fetus.	
	D. Define Snayu.	
	E. Define Sandhi.	
	F. Write the difference between right and left lungs.(any two)	
SECTION-B		
5.	Enlist the organs of digestive System and explain the liver in detail.	10
6.	Answer any one question:	10
	A. Write the Location, Surface anatomy and atrium of heart in detail.	
	B. Write the Grahani, Pakvashaya and Agnyashaya in detail.	
7.	Answer any Four questions:	20
	A. Plasma.	
	B. Lymph Nodes.	
	C. Introduction of Pleeha.	
	D. Shuddha Rakta Lakshana.	
	E. Write the structure of veins.	
8.	Answer any Five questions :	10
	A. Define Dhamanee.	
	B. Write The Location of Stomach.	
	C. Define Inferior Vena Cava.	
	D. Pulmonary trunk.	
	E. What is Lymph?	
	F. Sthulaguda.	

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HUMAN ANATOMY – 2

Date :- 10.10.2019
 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.	Enlist the organs of Female reproductive system and explain the uterus in detail.	10
2.	Answer any one question:	10
	A. Describe the Anguli Pramana according to Acharya Sushruta.	
	B. Write about exocrine glands and explain the parathyroid in detail.	
3.	Answer any Four questions:	20
	A. Vrikka.	
	B. Vishalyaghna Marma.	
	C. Ureter.	
	D. Pituitary Gland.	
	E. Scrotum.	
4.	Answer any Five questions :	10
	A. Medhra.	
	B. Epididymis.	
	C. Write the Location of Thymus Gland.	
	D. Define Vidhura marma.	
	E. Define Anjali Pramana.	
	F. Write the Location of Urinary bladder.	
SECTION-B		
5.	Describe the medulla oblongata in detail.	10
6.	Answer any one question:	10
	A. Write about swadhishtana and vishuddha chakra in detail.	
	B. Explain the tongue in detail.	
7.	Answer any Four questions:	20
	A. Dermis	
	B. Prana and Udakavaha Srotas.	
	C. Middle Ear.	
	D. Introduction of Indriya.	
	E. Spinal cord.	
8.	Answer any Five questions :	10
	A. Saraswati Nadi .	
	B. Mixed Nerve.	
	C. Trigeminal Nerve.	
	D. Cornea.	
	E. Define Srotas.	
	F. Eustachian tube.	

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FIRST YEAR EXAMINATION OCTOBER-2019

HUMAN PHYSIOLOGY - 1

Date :- 11.10.2019
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 physiology of transport across the cell membrane. 10
2. Concise about the "*Prakruti*" concept. 10

OR

Explain about the "*Shukra Dhatu*".

3. Write short notes on any **Four** of the following : 20
- A. Explain about the "*Rasa-samhanan*".
- B. Define the term "*Mala*" and mention the normal function of "*Sweda*".
- C. Mention the Normal function of "*Pachaka*" and "*Ranjaka Pitta*".
- D. Mention the normal functions of "*Meda Dhatu*" and "*Majja Dhatu*".
- E. Mention the normal functions of "*Kapha*" and "*Vata Dosha*".
4. Answer any **Five** of the following :(two to three sentences) 10
- A. Mention the subjects of "*Mana*".
- B. Mention the location of "*Avalambhaka Kapha*".
- C. Define the term "*Srotas*".
- D. Mention the Root of "*Asthivaha Srotas*".
- E. Mention the normal function of "*Apana Vayu*".
- F. Define the term "*Agni*".

SECTION-B

5. Explain about mechanism of defecation process. 10
6. Explain the physiology of ascending tract. 10
- OR**
- Explain the physiology of excitation-contraction.
7. Write short notes on any **Four** of the following : 20
- A. Explain the physiology of short term blood pressure regulation mechanism.
- B. Explain the physiology of heart sounds.
- C. Mention the large intestine functions.
- D. Explain about the mastication process.
- E. Mention the Liver functions.
8. Answer any **Five** of the following :(two to three sentences) 10
- A. Mention the functions of blood.
- B. Mention the types of Haemoglobin.
- C. Mention the normal platelet cell count.
- D. Mention the full form of ESR.
- E. Define the term Pack cell volume.
- F. Mention some important anti-coagulants.

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HUMAN PHYSIOLOGY – 2

Date :- 12.10.2019
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 & describe urine formulation. 10
2. Answer any one question. 10
 - A. Enlist the organ of female reproductive system & describe menstrual cycle.
 - B. Explain about chemical regulation of respiration
3. Answer any **Four** questions : 20
 - A. Describe the function of Adrenal gland.
 - B. Write a short note on function of placenta.
 - C. Write a short note on Veeryotpatti.
 - D. Write a short note on Alveolar ventilation.
 - E. Write a short note on normal function of calcitonin hormone.
4. Answer any **Five** of the questions : 10
 - A. Write the normal value of blood urea.
 - B. Enlist the symptoms of hypothyroidism.
 - C. Enlist the pancreatic hormones.
 - D. Enlist the types of labour.
 - E. Name the unit of filtration in kidney.
 - F. Write the name of the male gonadotropine.

SECTION-B

5. Write the name of Jnanendriya and Karmendriya & describe the process of smell. 10
6. Answer any one question: 10
 - A. Explain the physiology of immunity.
 - B. Explain the para-sympathetic nervous system.
7. Answer any **Four** questions: 20
 - A. Function of Shatchakras and their co-relation with various plexuses.
 - B. Physiology of sleep.
 - C. Write a short note on Pyrexia.
 - D. Write a short note on physiology of speech intellectual activity.
 - E. Write a short note on function of Oja.
8. Answer any **Five** questions : 10
 - A. What is Bala?
 - B. Enlist the function of Pingala Nadi.
 - C. Write the types of taste buds.
 - D. Enlist the types of immunity.
 - E. Define hypothermia.
 - F. Write the function of Karmendriya.

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BIO-CHEMISTRY

Date :- 14.10.2019
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 a note on gluconeogenesis. 10
2. Write the definition and classification of lipids. 10

OR

Define enzymes. Write about the factors affecting enzyme activity.

3. Write short notes on any **Four** of the following : 20
A. Inborn errors of amino acid metabolism.
B. Enzyme classification.
C. Structure and functions of chloroplast and lysosomes.
D. Passive transport mechanism.
E. Fructose and galactose metabolism.
4. Answer any **Five** of the following :(two to three sentences) 10
A. What is diabetes mellitus ?
B. Define proteins. Give examples.
C. What is the importance of HMP shunt pathway ?
D. Write a note on nitrogen balance.
E. What are aldose and ketose sugars ?
F. What is GTF?

SECTION-B

5. What are xenobiotics ? Give the details. 10
6. Write a note on LFT. 10

OR

Write about DNA structure and its types.

7. Write short notes on any **Four** of the following : 20
A. RNA and its types.
B. Vitamin A.
C. Oxidative phosphorylation.
D. PEM.
E. Biochemistry of starvation.
8. Answer any **Five** of the following :(two to three sentences) 10
A. What is the role of electron transport chain ?
B. What are the different roles of phospholipids ?
C. What is the role of copper and iodine in the body ?
D. What is genetic code ?
E. What is the role of biotin and vitamin C ?
F. Write any four roles of carbohydrates and lipids.

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HISTORY OF YOGA AND NATUROPATHY

Date :- 15.10.2019
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. Write a detail introduction of Gheranda Samhita. 10
2. Answer any one question: 10
 - A. Describe the origin and development of Yoga in India and abroad.
 - B. Describe Shiva Svarodaya and its contribution in field of Yoga.
3. Write short notes on any **Four** of the following : 20
 - A. Write a short note on :- Goraksha Samhita.
 - B. Write a short note on :- Swami Vivekananda.
 - C. Write a short note on :- Life Sketch of Maharishi Patanjali.
 - D. Write a short note on :- Yoga and Kriya by Bihar School of Yoga.
 - E. Write the contribution of the text "Light on Yoga."
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Write the full form and Author of "A.P.M.B."
 - B. Enlist the limbs of Hatha Pradipika.
 - C. Write the time period and author of "Shiva Samhita".
 - D. Activities of AYUSH in the field of Yoga.
 - E. What is the contribution of Mahatma Gandhi in Yoga?
 - F. Write any three objectives of Yoga.

SECTION-B

5. Describe about roots of Nisargopachara in Vedic and Ayurveda Literatures. 10
6. Answer any one question: 10
 - A. Describe origin & development of Naturopathy in India & abroad.
 - B. Contribution of Mahatma Gandhi & Vegiraju Krishnamraju in Naturopathy.
7. Write short notes on any **Four** of the following : 20
 - A. Details of Nisargopachara Ashram – Urulikanchan.
 - B. Life sketch of Hippocrates.
 - C. Educational & Reasearch activities in GAU.
 - D. Details of NIN – Pune.
 - E. Life sketch of Sebastein Kneipp.
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Full form of place of SVYASA.
 - B. Works of Sigmond Freud.
 - C. Father of Naturopathy.
 - D. Define Nature Cure.
 - E. Author of book "Return to Nature".
 - F. Introducer of "Spinal bath tub".
