

JAGANNATH UNIVERSITY JAIPUR

Department of Physiotherapy

TIME-TABLE

BPT 1st YEAR

TIME & DAYS	9:00-10:00	10:00-11:00	11:00-12:00	12:00-1:00	1:00-2:00	2:00-3:00	3:00-3:45	3:45-4
TUESDAY	ANATOMY	ENGLISH	B.PHYSIOTHERAPY	L	PHYSIOLOGY	BIOCHEM.	PHYSIOLOGY PRACTICAL	PHYSIOLOGY PRACTICAL
WEDNESDAY	ENGLISH	ANATOMY	B.PHYSIOTHERAPY	U	PHYSIOLOGY	BIOCHEM	ANATOMY PRACTICAL	ANATOMY PRACTICAL
THURSDAY	ANATOMY	SOCIOLOGY	PSYCHOLOGY	N	B.PHYSIOTHERAPY	BIOCHEM	B.PHYSIOTHERAPY PRACTICAL	B.PHYSIOTHERAPY PRACTICAL
FRIDAY	ANATOMY	PHYSIOLOGY	PSYCHOLOGY	C	SOCIOLOGY	ANATOMY LAB	ANATOMY LAB	LIBRARY
SATURDAY	PHYSIOLOGY	SOCIOLOGY	PSYCHOLOGY	H	PHYSIOLOGY LAB	PHYSIOLOGY LAB	PRESENTATION	SPORTS

Dr Joydip-B.Physiotherapy
Dr Deepika -Sociology

Dr Sonia Sharma-Psychology
Dr Sunanda-Anatomy

Dr Nikita Mathur -Physiology
Ms.Ritu Saxena-Biochemistry



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**FACULTY OF MEDICAL, PARAMEDICAL
& ALLIED HEALTH SCIENCES**

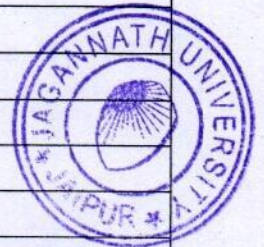
ACADEMIC CALENDAR-Term-2 (Jan-July, 2020)

1. Commencement of New Session	: 07 th January, 2020
2. Physio Box Cricket	: 24-26 January, 2020
3. Department Picnic	: 30/31 January, 2020
4. Annual Convocation	: 8 th February, 2020
5. Sports Tournaments (PCL)	: 21-23 February, 2020
6. Spandan-19	: 19-22 February, 2020
7. Workshop	: 25-28 February, 2020
8. Filling up of Examination Forms (II, IV, VI, VIII, X Sem.)	: 2 nd to 7 th March, 2020
9. Mid-Term Examination	: 2 nd to 7 th March, 2020
10. Filling up of Examination Forms (II, IV, VI, VIII, X Sem.) with late Fees	: 9 th to 14 th March, 2020
11. CME/Workshop/Conference	: 11-12 April, 2020
12. Poster Presentation	: In April, 2020
13. Filling up of Examination Forms for Special Due (I, III, V, VII & IX Sem.)	: 1 st to 08 th April, 2020
14. Filling up of Examination Forms for Special Due (I, III, V, VII & IX Sem.) with Late Fees	: 9 th to 16 th April, 2020
15. Last Working Day for Teaching	: 18 th April, 2020
16. Preparatory Leave /Practical Examinations	: 20 th to 25 th April, 2020
17. End-Term Examination (II, IV, VI, VIII & X Sem.) (For all Programmes)	: 27 th April-05 th June, 2020
18. Conduct of End Term Examination	: 18 th May to 27 th June, 2020
19. Special Due (I, III, V, VII & IX Semester)	(II – Shift)
20. Summer Break	: upto 26 th July, 2020
21. Commencement of Semester for existing batches	: 27 th July, 2020
22. Commencement of new Semester for New Batch	: 05 th August, 2020

Note: Common Events are marked in red.

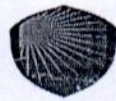
LIST OF HOLIDAYS

S.No.	Date	Occasion	Day
1.	01 st January, 2020	New Year	Wednesday
2.	26 th January, 2020	Republic Day	Sunday
3.	21 st February, 2020	Mahashivratri	Friday
4.	09 th March, 2020	Holi	Monday
5.	10 th March, 2020	Dhulandi	Tuesday
6.	02 nd April, 2020	Ram Navami	Thursday
7.	06 th April, 2020	Mahaveer Jayanti	Monday
8.	14 th April, 2020	Ambedkar Jayanti	Tuesday
9.	24 th May, 2020	Idu'l Fitar	Sunday



Two Holidays declared by District Collector (Makar Sankranti & Shitla Asthami)

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**FACULTY OF MEDICAL, PARAMEDICAL
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ACADEMIC CALENDAR- Term 1(July-December, 2019)

1 Commencement of New Session (Existing Batch)	:20 th August, 2019
2 Commencement of New Session (New Batch:	: 3 th September, 2019
3 Physiotherapy Day Celebration	: 8 th September, 2019
4 Guest Lectures for BPT & MPT students (2days)	: 2 nd week of September, 2019
5 Filling up of Examination Forms (Due Papers: I year)	: 11 th to 18 th September, 2019
6 Orientation Day	: 1 st October, 2019
7 Fresher's Party	: 19 th October, 2019
8 Dissection hall visit	: 3 rd week October, 2019
9 Academic visits to hospital & CP rehab Centre	: 2 nd week of November, 2019
10 Academic visits to Special School	: 4 th week of November, 2019
11 Guest lectures for BPT & MPT students (2 days)	: 2 nd week of November, 2019
12 Last working day of teaching (Term-1)	: 16 th December, 2019
9. Mid-Term Examination(Term-1)	: 17 th -24 th December, 2019
10. Term Break	: 25 th Dec., 2019 to 6 th Jan,2020
11. Commencement of New Semester	: 07 th January, 2020

Note: Common Events are marked in red.

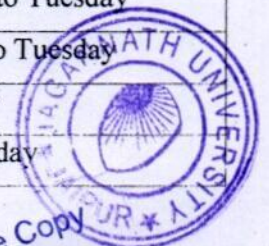
LIST OF HOLIDAYS

S.No.	Date	Occasion	Day
1.	12 th August, 2019	Idu'l Zuha*	Monday
2.	15 th August, 2019	Independence Day / Rakshabandhan	Thursday
3.	24 th August, 2019	Janmashtmi	Saturday
4.	10 th September, 2019	Moharram*	Tuesday
5.	29 th September, 2019	Navratra Sthapana	Sunday
6.	02 nd October, 2019	Gandhi Jayanti	Wednesday
7.	6 th to 08 th October, 2019	Ashtami, Navmi & Dussehra	Sunday to Tuesday
8.	25 th to 29 th October, 2019	Deepawali, Goverdhan Puja & Bhai Duj	Friday to Tuesday
9.	12 th November, 2019	Guru Nanak Jayanti	Tuesday
10	25 th December, 2019	Christmas	Wednesday

**Subject to sighting of moon*

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- LESSON PLAN
- SYLLABUS PRINT

Faculty Guidelines (Core/ Visiting)

The following rules have been drawn for creating a conducive and a healthy academic environment in the University. All the faculty members are requested to observe the same both in letter and spirit.

- The **classes should commence sharply at the scheduled time** and should be left at the scheduled time only, even if the teacher has completed the planned lecture. Leaving the class beforehand may cause disturbance to other ongoing classes.
- The faculties need to **intimate beforehand** for the adjustment of their classes to their respective coordinators. **No class would be adjusted** if intimation is received on the day on which the lecture is scheduled.
- The faculty members can **avail leave** only after prior approval of the Dean and intimation to the Coordinator. Faculty members are requested to adjust their classes in consultation with the course coordinators before availing leave.
- The students should **not be given any break** during the lecture period.
- The students are expected to be in the class as soon as the bell rings. However it the sole discretion of the concern faculty member to permit a student in the class not latter than 10 minutes of commencement of the class.
- It is the entire responsibility of the teacher to maintain the discipline in the class.
- Faculties should ensure that all the **Mobiles of the students are on switched off mode** before the commencement of the lecture. Also the faculty members are requested to keep their mobile phones **either on switched off mode or on silent mode** and not to attend any call during the class.
- The attendance will be maintained in **Cumulative** form e.g. 1, 2, 3, 4. Faculty members are requested to take the attendance themselves & the same should be signed after calculating the daily class strength.
- Faculties should take the **Attendance at the end of the lecture**, & not in between or in the beginning to avoid the class-bunking.
- Faculty members are requested to provide subject notes to the students, give assignments and conduct class tests regularly.
- They need to update the **Teaching Assignment Form** regularly w.r.t. Lecture Dates, Course/ topic covered in subsequent lectures.
- Faculty members are requested to assign minimum **2 Class Tests & 3 Assignments** during the Semester & submit the marks for the same to the coordinator in the prescribed **Student Assessment Sheet** at the Semester End in order to **Update the Internal Assessment** of the student concerned.



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- It is essential to attach one copy of the Assignment given, Class Tests conducted, Notes/ Handouts distributed in the Attendance Register for office record.
- Faculty members are requested to cover the syllabus unit wise and lesson plan wise.
- Faculty members are requested to discuss the progress of the course covered, as well as class discipline with the course coordinator/HOD as & when required.
- Faculty members are requested to **cover 60% of the syllabi** before Mid-term Examinations. The Mid-term Examinations would generally be scheduled after 8 weeks of subsequent teaching.
- **Faculty members need to conclude their syllabi within the assigned module as mentioned in the syllabus**
- Faculty members are also expected to discuss the Previous Year's Question Papers in subsequent class lectures. They should take Extra efforts with slow learners to improve their performance.
- For LCD/ LAB requirements please intimate the respective Course Coordinator at least one week in advance.
- It is also desired that faculties will regularly discuss the course coverage with other faculty members taking the same paper in a given semester.
- Faculties will be preparing a Common Question Paper for Mid-term & a Model Question paper for End-term Examination & submit the same in a soft copy to the Controller of Examinations when specified.



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5 UNIT

B.P.T. 1ST YEAR

PAPER - PHYSIOLOGY
CODE-BP102
THEORY—70

Course Description:

The course is designed to assist the students to acquire knowledge of the normal Physiology of various body systems and understand the alteration in physiology in disease and practice of Physiotherapy as applicable for each systemic disorder.

UNIT:-I

Learning objectives

Describe the physiology of cell, tissues, Membranes and glands.

Content:

Cell Physiology

Cell structures, functions and homeostasis. Cell membrane permeability and transport mechanisms. Bio electric potentials.

Teaching Learning activities.

Lecture discussion

Assessment methods

Short answer question, objective type.

UNIT-II

Learning objectives

Describe the contraction and tone various chemical & mechanical activities taking place in muscles & Nerves with special reference to injuries should be able to demonstrate fatigue and then phenomena related to muscles.

Content:

Muscle & Nerve

- General introduction types of responses by living organism, essentials of a system to produce movements. Structure of neuron neuromuscular junction and synapse.
- Electrophysiology of nerve and muscle. Generation conduction and transmission of nerve impulse.
- Classification of nerve fibers.
- Properties of nerve fibers, strength duration curve, accommodation.
- Structure and properties of different types of muscle.
- Physiology of neuromuscular transmission. Site and mode of action of blocking substances of neuromuscular transmission. Excitation- contraction coupling and molecular basis of muscle contraction, mechanisms of muscle contraction. Twitch summation, length tension relation ships-isotonic and isometric contraction. Factor affecting muscle tension.
- Energetics of muscle contraction.



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- V. **Mouth:**
1. State the main features of the mouth cavity tongue, palate salivary glands, teeth and gums.
 2. Mention the sensory and motor innervation of the tongue.
 3. Identify the salivary glands.
 4. Demonstrate movements of the tongue and palate.
 5. Test and produce the swallowing (gag) reflex.
 6. Predict the sequelae of lesions of the VIIth and XIIth cranial nerves.
- W. **Pharynx:**
1. State the position and extent of the pharynx.
 2. State the three subdivisions and the features of each subdivision.
 3. Name the muscles of pharynx and their action.
 4. Mention the sensory and motor innervation of the pharynx
- X. **LARYNX AND TRACHEA.**
1. Identify the hyoid and state its parts
 2. Identify the larynx and name the laryngeal cartilages.
 3. State the boundaries of laryngeal inlet and glottis.
 4. Identify the vocal and vestibular folds.
 5. State the movements of the laryngeal cartilages. Name the laryngeal muscles and mentions their attachments, action and nerve supply.
 6. Define the position, extent and gross structure of the trachea.
 7. State the mechanics of phonation and speech, production of voice and speech.
- Y. **Ear:**
1. State the basic structural plan of the organs of hearing and equilibrium.
 2. Mention the three subdivisions of the ear.
 3. Mention the nerve ending for hearing and equilibrium.
- Z. **Cranial nerves:**
1. Enumerate the cranial nerves in serial order.
 2. Relate interpret the number to the name.
 3. Indicate the nuclei of origin of termination.
 4. Mention the attachments of the brain and the cranial exit.
 5. State the sensory and motor distribution.
 6. State the position and course of VII nerve.
 7. Predict the sequel of lesion.

BOOK REFERENCES:-

1. Grays Anatomy
2. Human Anatomy- Snell
3. Anatomy – BD Chourasiya, Volume-I,II, & II
4. Human Anatomy – Kadasemn Volume -I , II & III
5. Human Anatomy- Dutta

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- Degeneration and regeneration of nerves lower motor neuron and its lesions, nutrition of muscle and effect of training. Electromyography, path physiology paralysis, paresis, peripheral neuritis defects of neuromuscular transmission.

Teaching Learning activities.

- Lecture discussion,
- Explain using charts, models and films.
- Demonstration of joint movements.

Assessment methods

Short answer question, objective type.

UNIT-III

Learning objectives

- Describe the physiology of blood as applicable to various component of blood and should be able to carryout various hematological examination.

Content

Blood:

- Composition and functions of blood plasma proteins, functions. Red blood cell-site of production, function
- Erythropoiesis and regulation, physiological and pathological variations.
- Hemoglobin function, abnormal hemoglobin, haemolysis and jaandice. Leucocytes, functions and leucopoiesis Platelets –role in haemostasis, coagulation of blood, anticoagulants and fibrinolytic system, bleeding disorders, thrombosis.
- Inflammation, Lymphocytes and cellular immunity.
- Blood groups and blood transfusion. Blood volume, methods of measurement.

Teaching Learning activities

- Lecture discussion, Explain using charts, models slides, specimen and films. Demonstrate the blood cell count Estimation of Hemoglobin determination of BT & CT, Blood grouping & ESR. W.B.C. count, RBC count & indices of Blood & DLC.

Assessment methods

- Short Answers Question , Objective Type

UNIT-IV

Learning objectives

- Describe the physiology of sympathetic & parasympathetic action & reflexes

Content

Autonomic nervous system.

Sympathetic and parasympathetic transmission at ganglia and post ganglionic terminals and autonomic reflexes.

Teaching learning activities

- Lecture discussion, Explain using charts, models and films. Demonstrate nerve stimulus, reflex action reflexes.

Assessment methods.

- Short answer, question, Objective type.



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UNIT-V

Learning objectives

- Describe the physiology and mechanism of respiration and control of respiration should be able to do clinical examination of Respiratory system & should be able to resuscitate in emergencies.

Content

Respiratory system.

- Introduction functional anatomy, functions respiratory and non respiratory.
- Mechanics of respiration inspiration, expiration, intra alveolar and intra pleural pressures, pneumo thorax. Pulmonary ventilation, airways resistance, compliance, work of breathing,
- Lung volumes and capacities. Gas law, partial pressures. Gas tension, Alveolar ventilation, composition of inspired alveolar and expired gases.
- Dead space of Anatomical and physiological perfusion-ventilation relationship and diffusion capacities. O₂ Transport and O₂ dissociation curve. Carbon dioxide transport and factors affecting. Control of respiration organization of respiratory centers, neural regulation.
- Control of respiration chemical apnoea, Hypoxia, asphyxia, hyperpnoea cheyne stokes breathing, hypercapnia, hypocapnia, respiratory failure, Dyspnoea and cyanosis.

Teaching learning activities.

- Lecture discussion, Explain using, charts films, respiratory efficiency test. Artificial respiration, Determination of vital capacity Determination of lung, volume & capacities by spirometry, Auscultation of breath sounds.

+ Ambu - bag

Assessment methods:

- Short answer, question, Objective type.

UNIT-VI

Learning objectives

- Describe the physiology and functions of Heart and BP regulation & should be able to examine the CVS & record ECG.

Content:

Cardiovascular system

- Properties of cardiac muscle, functional tissues, effects of ions on cardiac muscle. Origin and spread of cardiac impulse, resting membrane potential, pace maker potential and action potential.
- Electrocardiography
- Cardiac cycle pressure volume changes, Heart sounds, pulse arterial and venous relationship with cardiac cycle. Cardiac output determination, regulation. Heart rate, its regulation
- Haemodynamics
- Blood pressure, measurement, regulation short term, intermediate and long term. Regulatory mechanisms. Venous circulation flow, pressure and factors affecting venous circulation, central venous mechanism, venous circulation-flow, pressure, factor affecting, central venous pressure. Microcirculation. Coronary circulation and patho physiological considerations. regional circulation-

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pulmonary, cerebral, fetal, placental. Shock, syncope, heart failure, hypertension and hypotension.

Physiology of exercise. The lymphatic system, interstitial fluid dynamics and edema.

Teaching learning activities

- Lecture discussion, Explain using, charts films. Measurement of BP. Pulse, effect of exercise Circulatory efficiency test. Auscultation of heart sounds.

Assessment methods:

- Short answer, question, Objective type.

UNIT-VII

Learning objectives

- Describe the physiology of digestive system.

Content.

Gastro intestinal system.

- Introduction, functional anatomy, mastication swallowing. Physiology of gastro-intestinal secretions in general, Functions and regulation of gastric, Pancreatic, intestinal and bile secretions. Movement of alimentary canal, gastric emptying and intestinal movements
- Defecation. Assessment of functions gastric pancreatic and intestinal juice, vomiting, peptic ulcer, dumping syndrome, diarrhea and constipation.

Teaching learning activities

- Lecture discussion, Explain using, charts films.

Assessment methods:

- Short answer, question, Objective type.

UNIT-VIII

Unit - IV
Autonomic N. System

Learning objectives

- Describe the physiology of nervous system. Describe physiology of nerve stimulus. Reflexes, brain, cranial and spinal nerves. Demonstrate reflex action and stimulus.

Content:

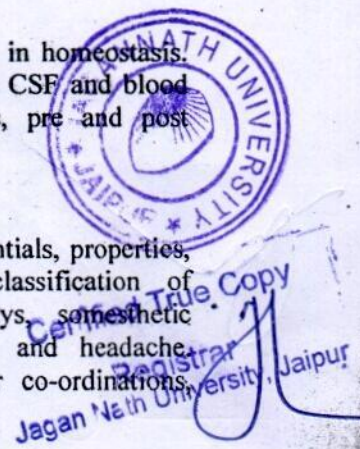
Nervous system.

I) General

Functional organization of nervous system, encephalization and role in homeostasis. C.S.F.-Site and mechanism of formation, circulation, functions and Blood CSE and blood brain barriers-clinical significance. Synapse-properties, neurotransmitters, pre and post synaptic events.

II) Sensory

Receptors, definition, classification, transducer action, generator potentials, properties, stimulus and strength relationship, modality of sensations and classification of sensations. Specific sensations, sensory and other ascending pathways, somesthetic sensations, proprioceptions and kinesthesia, pathophysiology of pain and headache. Thalamus- organization, connections, role in sensory functions, motor co-ordinations.



autonomic and emotional behavior sleep consciousness and thalamic syndrome. Cerebral cortex-sensory and motor organization, somatotopic representation, tactile localization and discrimination stereognosis.

III) Motor

Functional organization of motor system. Reflex action, properties and their significance. Stretch reflex, muscle spindle, role of gamma motor neuron, static and dynamic responses, polysynaptic reflexes. Reciprocal innervations, crossed extensor reflex, positive and negative supporting reaction. Cortical motor areas, pyramidal and extra pyramidal systems. Reticular formation organization ascending and descending components. Basal ganglia organization, circuits function and disorders. Role of bioamines. Regulation of tone and posture -postural reflexes spinal decerebrate, thalamic and decorticate preparations. Cerebellum-Functional anatomy, functions and pathology of sensory-motor mechanisms spinal cord lesions transection, hemi section, upper motor neuron lesion. Posterior column defects. Hypothalamus -Functional anatomy, connection and functions. Role in homeostasis. Limbic system-Components role in visceral, somatic and endocrinal activities, preservation of self and species, and psychosomatic implications.

IV) Higher Nervous Function

Condition reflex, properties, neural basis, relation to learning memory and habit formations. Learning and memory higher intellectual functions, Communication and speech and disorders. Electroencephalogram- neurophysiologic basis, relation to sleep and wakefulness and clinical applications.

V) Special Senses

Eye-functional anatomy, intra-ocular fluid pressure and clinical significance optic of vision, schematic eye, accommodation, errors of refraction and aberrations. Photoreceptor mechanisms, theories of vision, dark and light adaptations and color vision. Visual pathways central mechanism of vision visual reflexes. Field of vision, lesions of optic pathways. Ear functional anatomy, sound wave characteristics. Transmission of sound attenuation reflex. Physiology of internal ear, organ of cortianalysis of pitch and loudness, Cochlear micro phonics. Auditory pathways, central mechanisms of hearing, auditory cortex, hearing defects. Vestibular apparatus , functions. Clinical significance nystangmus, motion sickness. Physiology- taste and smell.

Teaching learning activities

- Lecture discussion, Explain using, charts films. Reflexes superficial & deep. Examination of sensory system. Examination of motor system. Examination of cranial nerve. Rinnes test & Weber's test for hearing.

Assessment methods:

- Short answer, question, Objective type.

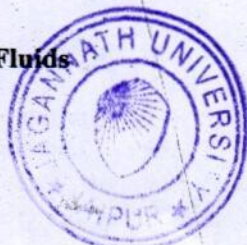
UNIT-IX

Learning objectives

- Describe the physiology of excretory system.

Content

Kidney and Body Fluids



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- Introduction, functional anatomy and functions in general including non excretory function
- Glomerular functions, filtration and its regulation. Function of renal tubule – reabsorption, secretions renal clearance transport maximum. Role of kidney in fluid balance electrolytes and non electrolytes. PH and Osmolarity. Physiology of micturition. Renal function tests. Body fluids- distribution, volume and regulation. Path physiology of kidney-Renal failure -, Artificial Kidney Diuretics.

Teaching learning activities

- Lecture discussion, Explain using, charts films.

Assessment methods:

- Short answer, question, Objective type.

UNIT-X

Learning objectives

- Describe the physiology of endocrine glands.

Content

Endocrinology

- Introduction, Hormone-definition,
- Method of study.
- Role of endocrine system in homeostasis, hypothalamic hypophyseal axis. Target tissue-negative and positive feed –back control system. Influence of external environmental on the endocrine system. Physiology of pituitary gland- Adenohypophysis. neurohypophysis Physiology of thyroid gland, thyroid function tests. Physiology of adrenal gland Adrenal cortex function and function tests, Adrenal medullary hormone, functions parathyroid, regulation, Hypo and Hyperactive parathyroid states. Pancreas-insulin, glucogen, somatostatin (physiological aspects) pineal gland, Thymus, local hormones prostaglandin.

Teaching learning activities

- Lecture discussion, Explain using, charts films. Demonstration of BMR.
-

Assessment methods:

- Short answer, question, Objective type.

UNIT-XI

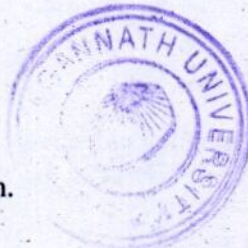
Learning objectives

- Describe the physiology male and female reproductive system.

Content

Reproduction

Introduction, an overview of preservation of species as against preservation of self, puberty, sex drive, menopause, cyclic activities in females, no cycling activities in male, spermatogenesis, ovulation, fertilization, implantation, pregnancy, lactation, parental behavior. Reproduction in males, testes structure, spermatogenesis, seminal fluid, ejaculation. Testicular hormones-, functions and regulation, hyper and hypoactive states of male gonad. Ovarian function-structure, oogenesis follicular growth, ovulation, function of



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corpus inteu. Female sex hormone, function and regulation. Menstrual cycle neurohormonal basis, hypothalamic-hypophyseal –gonadal axis, changes accessory organs, effect on behavior. Fertilization, implantation functions of placenta. Physiology of pregnancy and and parturition, changes in reproductive organs and different systems of the body. Physiology of lactation, mamogenesis, galactopoiesis, secretion and ejection of milk, lactation Ammenorthoea. Foetal and placental circulation.

Teaching learning activities

- Lecture discussion, Explain using, charts films, models, specimens.

Assessment methods:

- Short answer, question, Objective type

UNIT-XII

Learning objectives

- Describe the physiology of Skin and Sweating.

Content

~~Skin~~

Structure, blood circulation, functions, Temperature regulation-physical.

Teaching learning activities

- Lecture discussion, Explain using, charts films.

Assessment methods:

- Short answer, question, Objective type

UNIT-XIII

Learning objectives

- Describe the effect of Environment on normal physiology.

Content

Environmental Physiology

Altitude, space and underwater physiology.

Teaching learning activities

- Lecture discussion, Explain using, charts films.

Assessment methods:

- Short answer, question, Objective type

UNIT-XIV

Learning objective

- Describe the effect of physical stimuli and exercise and Muscle & Nerve.

Content

Applied physiology

Effects of heat and cold (localized and generalized)

Effects of electrical stimulation on skin, muscle and nerves, Effect of mechanical pressure.

Effect of local and general exercise. Compensation and training in nervous system.
Effects of various sensory proprioceptive stimuli etc.

Teaching learning activities

➤ Lecture discussion, Explain using, charts films.

Assessment methods:

➤ Short answer, question, Objective type

Book Reference:-

1. Concise medical physiology. Dr. S.C. Choudhary
2. Human physiology Dr. C.C. Chatterjee.
3. Samsan writes applied physiology handbook –by Cyril a keeleeric B. Neil
4. Best and Taylor's physiological basic of Medical practice- C.H. Best aetal
5. Medical physiology Dr. A.C. Gutton.
6. Review of Medical Phÿsiology – William F. Ganong.



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Lecture Plan

Subject: Physiology

Credit Hours 200

LECTURE	TOPIC
2	Cell Function, Homeostasis
4	Cell transport & Bioelectric Potentials
10	Respiratory system overview, Mechanism of Respiration, Lung Volume etc.
20	Cardiovascular system
10	Muscle & Nerve
20	Mouth, Pharynx & Larynx
5	Ears
2	Cranial Nerves
15	Blood
2	Autonomic Nervous System
10	Gastro Intestinal System
10	Kidney & Body fluids
10	Endocrinology
10	Reproduction
3	Skin
5	Environmental Physiology
10	Nervous system



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APPLIED Physiology

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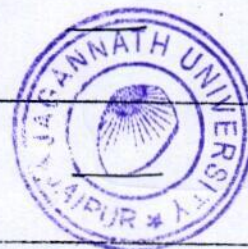
Teaching Assignment Form

Name of the Teacher: DHRIANIKITA MATHUR

Course: BPT Academic Year: 2019-23

Subject: Physiology

S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks
1.	14/11/19	Cell & its structure	Presentation on Ribosomes & Mitochondria	<u>Mathura</u>
2.	15/11/19	Homeostasis (10 – 11 AM)	—	<u>Mathura</u>
3.	15/11/19	Presentations (11 – 12 AM)	Presentation on Lysosomes, Nucleus ER etc.	<u>Mathura</u>
4.	16/11/19	Homeostasis (9 – 10)	—	<u>Mathura</u>
5.	16/11/19	Presentation (1 – 2.30)	To learn homeostasis & past topic	<u>Mathura</u>
6.	19/11/19	Cell Death (Apoptosis, Necrosis) (1 – 1.40)	—	<u>Mathura</u>
7.	21/11/19	Passive transport (10 – 11)		<u>Mathura</u>
8.	23/11/19	Active transport Na-K Pump, type of Carrier Protein		<u>Mathura</u>
9.	23/11/19	Ca, H ion transport other transport & Revision		<u>Mathura</u>

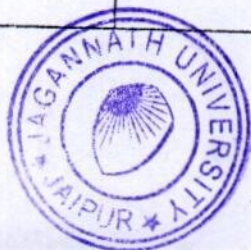


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S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks
10.	26/11/19	Respiration Anatomy	—	<u>Atkula</u>
11.	26/11/19	Function of Resp. unit	—	<u>Atkula</u>
12.	26/11/19	Cough & Sneezing reflex	—	<u>Atkula</u>
13.	27/11/19	Resp Movement, Movement of thoracic cage	—	<u>Atkula</u>
14.	29/11/19	Respiratory Mus.	—	<u>Atkula</u>
15.	30/11/19	Compliance & Work of breathing	—	<u>Atkula</u>
16.	30/11/19	Volume & Capacity of Lungs. Spirometry	—	<u>Atkula</u>
17.	30/11/19	Breast Sound Practical	—	<u>Atkula</u>
18.	3/12/19	Transport of O ₂ & CO ₂	—	<u>Atkula</u>
19.	3/12/19 3/12/19	Chapt 119-121 Circulation, ventilation, etc. Spirometer Practical	—	<u>Atkula</u>
20.	4/12/19 4/12/19	Regulation of Respiration	Class-Test On Saturday. On Resp.	<u>Atkula</u>
21.	6/12/19	Apnea	—	<u>Atkula</u>



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S.No	Date	Topic Discussed	Home Work - Assignment / Tutorial Allotted	Remarks
22.	7/12/19	Hypoxia	—	<u>Niketa</u>
23.	7/12/19 (1-2) 7/12/19	Asphyxia * Class Test	— —	<u>Niketa</u>
24.	(2-3) 10/12/19	Pneumothorax Cynosis	—	<u>Niketa</u>
25.	11/12/19	Revision	—	<u>Niketa</u>
26.	13/12/19	Hyperventilation Hypoventilation	—	<u>Niketa</u>
27.	14/12/19	Examination of Resp. System	—	<u>Niketa</u>
JANUARY 2020				
28.	07/1/20 (1-2)	Introduction of Cardiovascular system	—	<u>Niketa</u>
29.	07/1/20 (3-4,30)	Quality of Cardiac Mus.	—	<u>Niketa</u>
30.	08/1/20 (1-2)	Conductivity & Contractibility of Heart	—	<u>Niketa</u>
31.	11/1/20 (9-11)	Heart Rate Cardiac Cycle Intro	—	<u>Niketa</u>
32.	17/1/20	Space Physiology & underwater Physiology	—	<u>Niketa</u>
33.	18/1/20 (9-10)	Cardiac Muscles	—	<u>Niketa</u>

14 JAN :- MAKAR SANKRANTI

10 JAN :- Workshop

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S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks	NO. OF CLASS
34.	18/1/20 (1-3)	Skin & its Functions	—	<u>Noted</u>	
35.	21/1/20 (1-2)	Cardiac Cycle (Ventricular Event)	—	<u>Noted</u>	01
36.	21/1/20 (3-4:30)	Pressure Curve in Cardiac Cycle	—	<u>Noted</u>	02
37.	22/1/20	Hemodynamics	—	<u>Noted</u>	01
38.	24/1/20	ECG (Intro, leads & Placement)	—	<u>Noted</u>	01
39.	25/1/20	class test & class assignment given	—	<u>Noted</u>	03
40.	28/1/20	Freshers's Party (Students are absent)	—	<u>Noted</u>	03
41.	29/1/20	Capillary Circulation Placental Circulation	—	<u>Noted</u>	01
42.	31/1/20	ECG (Wave's) Segment & Interval	—	<u>Noted</u>	01
43.	1/2/20 (9-10)	Blood Pressure	Feb 2020		
44.	4/2/20 (1-2) (2-4)	Cardiac output versus Return BP Practical	—	<u>Noted</u>	
45.	4/2/20 (1-2) (3-3:45)	Microcirculation Effect of EES on CVS Shock	—	<u>Noted</u>	03

(3.45-4.30) Practical BP



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Teaching Assignment Form

Name of the Teacher: Dr. Nikita MathurCourse: MPT IV year Academic Year: 2019-2020Subject: Physiology

S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks
1.	5/2/20	Introduction of Digestive system	—	<u>Nikita</u>
2.	7/2/20	Nerve supply of GI tract	—	<u>Nikita</u>
3.	18/2/20 (1-2)	Salivary Gland, Salivary Secretion & Nervous Control	—	<u>Nikita</u>
4.	18/2/20 (3-4:30)	Gastric gland, HCL Production	—	<u>Nikita</u> (2)
5.	12/2/20	Regulation of Gastric Phase (Cephalic phase)	—	<u>Nikita</u>
6.	14/2/20	Regulation of Pancreatic Juice	—	<u>Nikita</u>
7.	15/2/20 (9-10)	Small & Large Intestine	—	<u>Nikita</u>
8.	15/2/20 (2-3)	Mastication & Deglutition (GI Motility)	APPLIED Physiology of Digestive System Assignment.	<u>Nikita</u>
9.	25/2/20 (1-2)	Gall bladder & Liver Functions	—	<u>Nikita</u>

★ 8/2/2020 – Convocation



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S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks
10.	25/2/2020 25/2/2020	Gall bladder Regulation APPLIED Physiology	—	<u>Niketa</u> <u>Niketa</u>
11.	26/2/2020 (1-2)	Peptic ulcers Vomiting, GDS	—	<u>Niketa</u>
12.	28/2/2020	Conference on Digital Resources	—	<u>Niketa</u>
13.	29/2/2020	Nephron/Kidney	—	<u>Niketa</u>
14.	29/2/2020 (1-2) 29/2/2020	glomerulus apparatus Renal function test	—	<u>Niketa</u>
15.	(2-3) 3/3/2020	urine formation (glomerulus filtration)	—	<u>Niketa</u>
16.	3/3/2020 3/3/2020	tubular Reabsorption class test revision (Practical)	—	<u>Niketa</u> #73
17.	4/3/2020	Acidification of urine	—	<u>Niketa</u>
18.	5/3/2020 (10-11) 5/3/2020	<u>class test</u> (Cardiac Cycle, ECG, V.P & Cardiacmus)	—	<u>Niketa</u>
19.	(11-12) 5/3/2020 (1-2)	Practical Mean Arterial Pressure	—	<u>Niketa</u>
20.	6/3/2020 (10-11) 6/3/2020 (11-12)	Micturition Reflex Practical BP	—	<u>Niketa</u> <u>Niketa</u>
21.	7/3/2020	Dilysis & Diuretics	—	<u>Niketa</u>

S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks
22.	7/3/2020	Male Reproductive System Intro	"	<u>Niketa</u>
23.	11/3/2020	Larynx, Pharynx, Trachea (Anatomy)	"	<u>Sunanda</u>
24.	12/3/2020	Female Reproductive System/Physiology of Lactation	"	<u>Niketa</u>
25.	13/3/2020	Menstrual Cycle.	"	<u>Niketa</u>
26.	13/3/2020	Ovulation	"	<u>Niketa</u>
27.	14/3/2020 (9-10)	Maternal change during pregnancy.	"	<u>Niketa</u>
28.	14/3/2020 (1-2)	Pasturisation	"	<u>Niketa</u>
29.	14/3/2020 (2-3)	Practical-file Work (Revision all.)		
30.	1/4/2020	Introduction of Endocrine System & Hormones	"	<u>Niketa</u>
31.	2/4/2020	Feedback Mechanism & Homeostasis	"	<u>Niketa</u>
32.	3/4/2020	Thyroid Gland	"	<u>Niketa</u>
33.	4/4/2020	Thyroid Fun. Test & Endocrine fun of Pancreas	"	<u>Niketa</u>



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S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks
34.	6/4/2020	Anterior Pituitary Gland	—	<u>Niketa</u>
35.	7/4/2020	Posterior Pituitary Gland	—	<u>Niketa</u>
36.	8/4/2020	APPT Adrenal Gland	Assignment on applied Physiology adrenal gland	<u>Niketa</u>
37.	9/4/2020	Pineal Gland & Thymus	Thyroid & Para-thyroid gland	<u>Niketa</u>
38.	9/4/2020	Local Hormones	—	<u>Niketa</u>
39.	10/4/2020	Muscle Physiology Introduction	—	<u>Niketa</u>
40.	11/4/2020	Immunity	—	<u>Niketa</u>
41.	11/4/2020	Blood transfusion & thyroid hormone in gene transcription	—	<u>Niketa</u>
42.	13/4/2020	Muscle Contraction	—	<u>Niketa</u>
43.	13/4/2020	Classification of X-lane Fibers	—	<u>Niketa</u>
44.	14/4/2020	Energetics of Mus. Contraction	—	<u>Niketa</u>
45.	14/4/2020	S-D Curve	—	<u>Niketa</u>



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S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks
10.	15/4/2020	Cranial Nerve's Introduction	—	<u>Nukula</u>
11.	15/4/2020	Cranial Nerve Fun & Testing	—	<u>Nukula</u>
12.	16/4/2020	Facial Nerve	—	<u>Nukula</u>
13.	16/4/2020	12 th Cranial Nerve	—	<u>Nukula</u>
14.	17/4/2020	olfactory nerve	—	<u>Nukula</u>
15.	17/4/2020	Optic Nerve	—	<u>Nukula</u>
16.	18/4/2020	Oculomotor Nerve	—	<u>Nukula</u>
17.	18/4/2020	Trochlear Nerve	—	<u>Nukula</u>
18.	20/4/2020	Facial Nerve Revision + Facial Palsy	—	<u>Nukula</u>
19.	20/4/2020	Tongue Nerve & abducent Nerve	—	<u>Nukula</u>
20.	21/4/2020	Vestibulocochlear Nerve	—	<u>Nukula</u>
21.	21/4/2020	Vestibulocochlear Nerve	—	<u>Nukula</u>



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S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks
22.	22/4/2020	Glossopharyngeal Nerve	—	Noted
23.	22/4/2020	Salivary Reflex	—	Noted
24.	23/4/2020	Vagus Nerve Course	Learning assignment on facial Mus.	Noted
25.	23/4/2020	Vagus Nerve Applied Physiology	—	Noted
26.	24/4/2020	Mus. of facial Expression	—	Noted
27.	24/4/2020	Vagus & Glossopharyngeal N. Course	—	Noted
28.	25/4/2020	Accessory Cranial Nerve Course	—	Noted
29.	25/4/2020	Accessory N. applied Physiology	—	Noted
30.	27/4/2020	Hypoglossal N. Course	—	Noted
31.	27/4/2020	Hypoglossal N. applied Physiology	—	Noted
32.	28/4/2020	Introduction of Blood	—	Noted
33.	28/4/2020	Component of Blood	—	Noted



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S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks
34.	29/4/2020	Trigeminal & abducent C.N. overview	—	Nikhil
35.	29/4/2020	Doubt class abt all Cranial N.	—	Nikhil
36.	30/4/2020 (1-3)	Class Test On Google Form	—	Nikhil
37.	1/5/2020	Plasma Protein	—	Nikhil
38.	1/5/2020	RBC Structure	—	Nikhil
39.	2/5/2020	Formation of Hb.	—	Nikhil
40.	2/5/2020	Structure of Hb.	—	Nikhil
41.	4/5/2020	ESR	—	Nikhil
42.	4/5/2020	Erythropoiesis	—	Nikhil
43.	6/5/2020	Blood Indices	—	Nikhil
44.	6/5/2020	Introduction of WBC	—	Nikhil
45.	7/5/2020	Jaundice	—	Nikhil



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S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks
10.	7/5/2020	Blood Groups (ABO)	-	<u>Nikita</u>
11.	8/5/2020	Spleen	-	<u>Nikita</u>
12.	8/5/2020	Platelets	-	<u>Nikita</u>
13.	9/5/2020	Rh. Blood Group)	Blood	<u>Nikita</u>
14.	9/5/2020	Anemia	-	<u>Nikita</u>
15.	11/5/2020	CT/BT Practical	-	<u>Nikita</u>
16.	11/5/2020	Physiology of Hearing	-	<u>Nikita</u>
17.	12/5/2020	Anatomy of ear	-	<u>Nikita</u>
18.	13/5/2020	Effect of Proprioceptive Stimuli	-	<u>Nikita</u>
19.	13/5/2020	Mechanoreceptors	-	<u>Nikita</u>
20.	14/5/2020	effect of Electric Stim. on Nerve	-	<u>Nikita</u>
21.	14/5/2020	effect of Electric Stim on muscle	-	<u>Nikita</u>



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S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks
22.	15/5/2020	Exercise Physiology Introduction	—	<u>Noted</u>
23.	15/5/2020	Effect of Exs on Body System	—	<u>Noted</u>
24.	16/5/2020	Effect of Heat	—	<u>Noted</u>
25.	16/5/2020	effect of Cold	—	<u>Noted</u>
26.	18/5/2020	Inflammation Introduction	—	<u>Noted</u>
27.	19/5/2020	Pathophysiology of Inflammation	—	<u>Noted</u>
28.	19/5/2020	Movement of Tongue & Mus. Responsible for it	—	<u>Noted</u>
29.	20/5/2020	Tongue Anatomy	—	<u>Noted</u>
30.	20/5/2020	Innervation of Pharynx	—	<u>Noted</u>
31.	21/5/2020	Anatomy of Pharynx	—	<u>Noted</u>
32.	21/5/2020	Physiology of Pharynx	—	<u>Noted</u>
33.	22/5/2020	Anatomy of Larynx	—	<u>Noted</u>



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S.No	Date	Topic Discussed	Home Work – Assignment / Tutorial Allotted	Remarks
34.	23/5/2020	Anatomy of Mouth Cavity	-	absent
35.	23/5/2020	Physiology of speech	-	absent
36.	26/5/2020	Revision + B (Cell / blood & Mus.)	-	absent
37.	27/5/2020	Revision (ANS & Resp.)	-	absent
38.	28/5/2020	Revision (CVS & GI System)	-	absent
39.	29/5/2020	Revision (Excretory / Endocrine system)	-	absent
40.	30/5/2020	Revision Skin, environmental physiology	-	absent
41.	1/6/2020	edema	-	absent
42.				
43.				
44.				
45.				



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Dr. Nikita Mathus
 Dr. Sunanda

Attendance Sheet (of BPT-2018-2022)

Month: OCT / NOV 2021

Subject: *Physics*

S.No.	Name of Student	Enrollment No.	22/10	05/11	05/11	14/11	15/11	16/11	16/11	19/11	20/11	22/11	23/11	23/11
1	Parameet		.	1	2	3	4	5	.	.	.	6	7	8
2	Yashika		.	1	2	3	4	5	6	7	8	9	10	11
3	Anvini		1	2	3	4	5	6	7	8	9	10	.	.
4	Subesh		.	+1	2	3	4	5	6	7	8	.	.	.
5	Pushpendra		.	.	.	.	.	.	.	.	.	.	.	.
6	Garraj		.	.	.	1	2	3	4	5	.	.	.	.
7	Varia		1	2	3	4	5	6	7	8	9	10	11	.
8	Amit		.	1	2	3	4	5	6	7	8	9	.	10
9	Ravinesh		.	1	2	3	4	5	6	7	8	9	.	.
10	Akasha		1	2	3	4	5	6	7	8	9	10	11	12
11	Shivangi		.	.	.	1	2	3	4	5	6	7	8	9
12	Ambika		.	1	2	3	4	5	6	7	8	9	.	.
13	Nishi		.	.	.	.	.	.	.	1	2	3	4	.
14	Anup	
15	Vikas		.	.	.	1	2	3	4	5	6	7	8	9
16	Rohan		1	2	3	4	5	6	7	8	9	10	11	12
17	Aarshad		.	1	2	3	4	5	6	7	8	9	.	.



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Dr. Dinku Mathur JAGANNATH UNIVERSITY, JAIPUR

Attendance Sheet of BPT (2018-2022)

Name of Faculty : Dr. Sunanda Subject : Physiology (11112) Month: Oct/Nov/2019

S.No.	Name of Student	Enrollment No.	22/10/11	05/10/11	12/10/11	19/10/11	26/10/11	02/11/11	09/11/11	16/11/11	23/11/11	30/11/11	07/12/11	14/12/11	21/12/11	28/12/11
18	Pooja		-	-	-	-	-	-	3	2	4	5	-	-	-	-
19	Dhananjay		-	-	1	2	3	4	5	6	7	8	9	10	-	-
20	Ram		-	-	-	-	-	-	-	-	-	1	2	3	-	-
21	Indu		-	-	1	2	3	4	5	6	7	8	9	-	-	-
22	Pooja		1	2	3	4	5	6	7	8	9	10	11	12	13	-
23	Ashok		1	2	3	4	5	6	7	8	9	10	11	12	13	-
24	Deepanshu		-	-	-	1	2	3	4	5	6	7	8	9	10	-
25	Manisha		-	-	-	1	2	3	4	5	6	7	8	9	10	-



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Attendance Sheet of BPT (2018-2022)

Name of Faculty : Dr. Nikita Mathur Subject : Physics Month : Nov - Dec

S.No.	Name of Student	Enrollment No.	26/11	27/11	28/11	30/11	30/11	30/11	16/22
1	Pasamjeet	19	10	12	13	14	15	16	16/22
2	Yashika	14	15	17	18	19	20	21	21/22
3	Arvind	11	12	13	14	15	16	16	16/22
4	Suhesh	9	10	12	13	14	15	15	15/22
5	Rushpendra	-	-	-	-	-	-	-	-
6	Gajraj	6	7	8	9	10	11	12	10/22
7	Dania	12	13	14	15	16	17	18	19/22
8	Amit	11	12	13	14	15	16	17	17/22
9	Rajneesh	10	11	12	13	14	15	16	17/22
10	Akansha	15	16	17	18	19	20	21	22/22
11	Shwangi	10	11	12	13	14	15	16	17/22
12	Ambika	8	9	10	11	12	13	14	15/22
13	Nidhi	5	6	7	8	9	10	11	11/22
14	Anup	4	-	-	-	-	-	-	-
15	Vikas	1	-	-	4	-	-	-	4/22
16	Roshan	15	16	17	18	19	20	21	21/22
17	Arushal	10	11	12	13	14	15	16	16/22



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Attendance Sheet of BPT (2018-2022)

Name of Faculty: Nikits Mathus
 Name of Student: P.K. Mathur
 Subject: Phy. & Chemistry
 Month: Nov
 Year: 2021

S.No.	Name of Student	Enrollment No.	26/11	27/11	28/11	29/11	30/11	31/11	Total Present at Vert. E
18	Pooja	6	7	8	9	10	11	12	12/21
19	Dhananjay	11	12	13	14	15	16	17	18/22
20	Ram	4	5	6	7	8	9	10	11/22
21	Indes	10	11	12	13	14	15	16	17/21
22	Taray	14	15	16	17	18	19	20	-
23	Ashok	10	11	12	13	14	15	16	17/22
24	Debarshu	-	-	-	-	-	-	-	-
25	Manisha	8	9	10	11	12	13	14	15/21



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Attendance Sheet of BPT (2018-2022)

Name of Faculty : Dr. N. K. Mathur Subject : Physiology

Month December

S.No.	Name of Student	Enrollment No.	3/12	3/12	3/12	4/12	4/12	4/12	5/12	5/12	5/12	6/12	6/12	6/12	7/12	7/12	7/12	8/12	8/12	8/12	9/12	9/12	9/12	10/12	10/12	10/12	11/12	11/12	11/12	12/12	12/12	Total	
19	Dhananjay		19	20	21	22	23	24																									
20	Ram		12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31											
21	Indar		18	19	20	21	22	23	24	25	26	27	28	29	30	31																	
22	Tanay			21	20	21	22	23	24	25	26	27	28	29	30	31																	
23	Ashok		18			19	20	21	22	23	24	25	26	27	28	29	30	31															
24	Debanisha					9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
25	Manisha		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31															



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Attendance Sheet (01 SEPT (2018-2022))

Name of Faculty: Dr. N. K. Ta. Mathur Subject: Maths Month: December

No.	Name of Student	Enrollment No.	14/12	15/12	16/12	17/12	18/12	19/12	20/12	21/12	22/12	23/12	24/12	25/12	26/12	27/12	28/12	29/12	30/12	31/12	Total	absent	
1.	Pasamjeet		26	27	28																	12/17	
2.	Yashika		-	-	-																		10/17
3.	Aarind		-	-	-																		4/17
4.	Suhesh		21	22	23																		
5.	Pushpendra		-	-	-																		
6.	Grayson		-	-	-																		
7.	Varia		-	-	-																		
8.	Amit		-	22	23																		
9.	Rajesh		23	24	25																		
10.	Akansha		34	35	36																		
11.	Shiwangi		24	25	26																		
12.	Ambika		15	16	17																		
13.	Xidhi		-	-	-																		
14.	Anup		-	-	-																		
15.	Vikas		-	-	-																		
16.	Rohan		-	-	-																		
17.	Anshul		23	24	25																		
18.	Pooja		-	-	-																		



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Attendance Sheet of BPT (2018-2022)

Name of Faculty : Dr. NIKITA MATHUR Subject :

Month: December

No.	Name of Student	Enrollment No.	14/12	14/12	14/12	Date															
9.	Dhananjay		26	-	-																
10.	Ram		23	-	-																
11	Indes		29	-	-																
12	Tanay		,	,	,																
13	AsheK		,	,	,																
4	Depanshu		17	18	19																
25.	Manisha		24	25	26																

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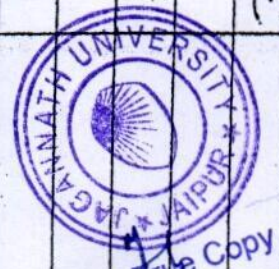
JAGANNATH UNIVERSITY JAIPUR

Attendance Sheet of BPT (2018-2022)

Name of Faculty: Dr. NIKITA MATHUR (PT) Subject:

Month: January 2020

S.No.	Name of Student	Enrollment No.	7/01	7/01	8/01	11/01	17/01	18/01	18/01	18/01	21/01	21/01	21/01	21/01	23/01	24/01
1.	Pasamijeet		29	30	31	32	33	34	35	36	37	38	39	40	41	42
2.	Yashika		32	33	34	35	36	37	38	39	40	41	42	43	44	45
3.	Arvind		22	23	23	24	25	26	27	28	29	30	31	32	33	34
4.	Suhesh		24	25	26	27	28	29	30	31	32	33	34	35	36	37
5.	Pushpendra		-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.	Grajraj		20	21	22	23	24	25	26	27	28	29	30	31	32	33
7.	Vania		-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.	Amit		-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.	Rajnish		-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.	AKansha		36	37	38	39	40	41	42	43	44	45	46	47	48	49
11.	Shi wangi		27	28	29	30	31	32	33	34	35	36	37	38	39	40
12.	Ambika		18	19	20	21	22	23	24	25	26	27	28	29	30	31
13.	Nidhi		-	15	-	-	16	17	-	-	-	-	-	-	-	-
14.	Anup		-	-	-	-	-	-	-	-	-	-	-	-	-	-
15.	Vikas		-	-	13	14	15	16	17	18	19	20	21	22	23	24
16.	Roshan		36	37	38	39	40	41	42	43	44	45	46	47	48	49
17.	Anshul		-	-	-	-	-	-	-	-	-	-	-	-	-	-



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Attendance Sheet of BPT (2018-2022)

Name of Faculty : Dr. NIKITA MATHUR Subject

Month: January 2020

S.No.	Name of Student	Enrollment No.	7/01	7/01	8/01	11/01	17/01	18/01	18/01	8/01	21/01	21/01	21/01	23/01	24/01	
18.	PooJA					19	-	-	20	21	-	-	-	22	-	
19.	Dhananjay						-	-			-	-	-	27	-	
20.	Ram						-	-			-	-	-		-	
21.	Indes						-	-			-	-	-	30	-	
22.	Tanay				26		27	28	29	30	31	32	33	34	35	
23.	Ashok		30	31	32		33	34	35	36	37	38	39	40	-	
24.	Depanshu				20	21	22	-	-	-	-	-	-		23	
25.	Manisha				27	28	29	-	-	-	30	31	32	33	34	
26.	Babita		1	2	3	4	5	6	7	8	9	10	11	12	13	14



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Attendance Sheet of BPT (2018-2022)

Name of Faculty : Dr. NIKITA MAJHAR Subject: _____ Month: January 2020

S.No.	Name of Student	Enrollment No.	28/01/20	29/01/20	31/01/20
1.	Parasmit		43	-	-
2.	Yashika		-	48	
3.	Agwind			31	
4.	Suhesh			34	
5.	Pushpendra			-	
6.	brajraj			-	
7.	Vania			35	
8.	Amit			27	
9.	Rajnish		29	30	
10.	Akansha		47	48	
11.	Shuwangi		36	37	
12.	Ambika		29	30	
13.	Nelhi			-	
14.	Anup			-	
15.	Vikas				
16.	Koshan		50	51	
17.	Anshul		27	28	
18.	Pooja				23

Freshers's Party



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Attendance Sheet of BPT (2018-2022)

Name of Faculty : Dr. N.K.G. Mathur Subject

Mon: January 2020

S.No.	Name of Student	Enrollment No.	28/1	29/1	30/1
19.	Dhananjay		←	28	29
20.	Ram			24	25
21.	Indes			31	32
22.	Tanay			36	-
23.	Ashok			41	-
24.	Depanshu				-
25.	Manisha			35	36
26.	Babita			15	16

← Freshers →



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Attendance Sheet of BPT (2018-2022)

Name of Faculty : **Dr. Nikita Mathu** Subject : **Physics**

Month: **February 2020**

S.No.	Name of Student	Enrollment No.	01/02	02/02	03/02	04/02	05/02	06/02	07/02	08/02	09/02	10/02	11/02	12/02	13/02	14/02	15/02	16/02	17/02	18/02	19/02	20/02	
1	Paramjeet		-	-	44	45	-	46	47	48	49	50	51	-	-	52	53	54	55	56	57	58	59
2	Yashika	47	48	49	50	51	52	53	-	-	-	41	42	43	44	45	46	47	48	49	50	51	52
3	Aswind	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
4	Suhesh	-	35	36	37	-	-	-	-	-	-	42	43	44	45	46	47	48	49	50	51	52	53
5	Pushpendra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Gajraj	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
7	Vania	36	-	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
8	Amit	-	-	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
9	Rajneesh	-	-	31	32	-	33	34	35	36	37	38	-	-	39	40	41	42	43	44	45	46	47
10	Akansha	49	50	51	52	53	-	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69
11	Shwargi	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
12	Ambika	31	32	33	34	35	36	-	37	38	39	40	-	-	41	42	43	44	45	46	47	48	49
13	Nueli	-	-	19	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Anup	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Alikas	-	-	22	23	-	-	-	24	25	26	-	-	-	-	-	-	-	-	-	-	-	-
16	Roshan	-	-	52	53	54	55	-	-	-	-	56	-	-	-	-	-	-	-	-	-	-	-
17	Anshul	29	-	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49



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Attendance Sheet of BERT (2018-2022)

Name of Faculty : Dr. Nikita Mathur Subject :

Subject :

Date: 14th Mon Feb 2020

S.No.	Name of Student	Enrollment No.	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	13/02	14/02	15/02	16/02	16 1/2	
18	Pooja		-	24		25	26												16 1/2	
19	Dhananjay		30	31	32	33	34	35	36	37	38	39		40	41		42	43	44	
20	Ram		26	27	28	29	30	31	32	33	34	35		36	37		38	39	39	
21	Inoles		33	34	35	36	37	38	39					40	41		42	43	43	
22	Tarun		37	38	39	40			41					42		43	44			
23	Ashok		42	43	44	45	46	47	48						49	50	51			
24	Deepanshu		24		25			26	27					28	29	30	31	32	33	
25	Manisha		37	38	39					40	41	42		43	44	45	46	47	48	
26	Babita		17	18	19			20	21	22	23	24	25	26						27



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★ 15/2/2020 - 1-2 = Motivational lectures
★ 6th 2/2020 - Thursday - No class.

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Attendance Sheet of BPT (2018-2022)

Month: Feb. 2020

Subject: Psychology

Name of Faculty: Dr. Nikita Mathur

S.No.	Name of Student	Enrollment No.	26/2	28/2	29/2	29/2	29/2	29/2	Total Classes at Month End
1)	Pasamjeet		54	↑	-	-	-	-	
2)	Yashika		60	↑	-	-	-	-	
3)	Agwind		-	-	-	-	48	-	
4)	Suhesh		-	0	-	-	48	49	
5)	Pushpendra		-	0	-	-	-	-	
6)	Geisray		43	Z	-	-	-	-	
7)	Vania		-	H	51	52	53	-	
8)	Amit		-	A	-	-	-	-	
9)	Rajnish		43	R	44	-	-	-	
10)	Akansha		65	A	-	-	-	-	
11)	Shivangi		53	Z	54	55	56	-	
12)	Ambika		-	0	45	46	47	-	
13)	Nialti		-	M	-	-	-	-	
14)	Anup		-	-	-	-	-	-	
15)	Vikas		-	-	-	-	-	-	
16)	Roshan		59	↓	-	-	-	-	
17)	Anshul		-	↓	-	-	45	46	
18)	Pooja		-	-	-	-	-	-	



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18/2/2020 - 22/2/2020 - SPAN.DAN
27/2/2020 - Thursday

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Attendance Sheet of BPT (2018-2022)

Name of Faculty: *Dr. Nikita Mathur* Subject: *Physiology*

Month: *Feb. 2020*

S.No.	Name of Student	Enrollment No.	26/2	27/2	28/2	29/2	29/2	29/2	Total Classes at Month End
19.	<i>Dhananjay</i>		45	-	28/2	29/2	29/2	29/2	
20.	<i>Ram</i>		40	-					
21.	<i>Indes</i>		-	-					
22.	<i>Tanay</i>		45	-					
23.	<i>Ashok</i>		-	52	53	54			
24.	<i>Deepanshu</i>		35	36	37	38			
25.	<i>Manisha</i>		50	-					
26.	<i>Babita</i>		28	-					



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Attendance Sheet of BPT (2018-2022)

Name of Faculty: Dr. Nikita Mishra Subject: Physics

Month: March 2020

S.No.	Name of Student	Enrollment No.	3/3	3/3	4/3	5/3	5/3	5/3	6/3	6/3	7/3	7/3	12/3	13/3	13/3	Total Classes at Month End	
1	Paramjeet		-	55	56	57	58	59	60	61	62	63	64	65	66	67	
2	Yashika		61	62	63	64	65	66	67	68	69	70	71	72	73	-	
3	Axvind		49	50	51	52	53	54	55	56	57	-	-	58	59	-	
4	Subesh		-	50	51	52	53	54	55	56	57	-	-	58	59	60	
5	Pushpendra		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	Gajraj		-	44	45	46	47	48	49	50	51	-	-	-	-	52	
7	Vani		54	55	56	57	58	59	60	61	62	-	63	64	65	-	
8	Amit		-	42	43	-	44	45	46	47	48	-	49	50	51	-	
9	Rajneesh		-	45	46	47	48	49	50	51	52	-	53	54	55	-	
10	Akash		66	67	68	69	70	71	72	73	74	75	76	77	78	-	
11	Shivangi		-	57	58	59	60	61	62	63	64	-	65	66	67	-	
12	Ambika		-	48	49	50	51	52	53	54	55	-	56	57	58	-	
13	Nidhi		-	-	-	-	-	-	-	-	-	-	-	21	-	-	
14	Anup		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	Vikas		27	28	29	28	29	30	-	-	31	-	-	-	-	-	
16	Roshan		-	-	60	61	62	63	64	64	65	66	-	67	68	-	
17	Arshul		47	48	49	50	51	52	53	54	-	-	55	56	57	-	
18	Pooja		-	24	25	26	27	28	29	30	31	32	33	34	35	36	37



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Attendance Sheet of BPT (2018-2022)

Month: 13/3/2022

Name of Faculty: Dr. Nikita Mathur
 Subject: Pharmacology

S.No.	Name of Student	Enrollment No.	3/3	3/3	4/3	5/3	5/3	6/3	6/3	7/3	7/3	12/3	13/3	13/3	Total Classes to Month End		
19.	Dhananjay		46	47	48	49	50	51	52	-	-	-	-	-	-		
20	Ram		-	-	-	-	-	-	-	-	-	-	-	-	-		
21	Index		-	-	-	-	-	-	-	-	-	-	-	-	-		
22	Tanay		-	-	46	47	48	49	50	51	-	-	52	53	-		
23	Ashok		55	56	57	58	59	60	61	62	63	64	65	66	67	68	69
24	Deepanshu		-	-	39	-	-	-	-	-	-	-	40	41	42	-	
25	Manisha		51	52	53	54	-	-	-	55	56	57	58	59	60	-	
26	Babita		-	29	30	31	32	33	34	35	36	37	38	39	40	-	



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Attendance Sheet of BPT (2018-2022)

Month: March 2020

Name of Faculty: Dr. Nikita Mathur

Subject: Phytology

S.No.	Name of Student	Enrollment No.	14/3	14/3	Total Classes at Month End
1.	Parameet		68	69	
2.	Yashika		-		
3.	Agwind		-		
4.	Suhesh		61	62	
5.	Pushpendra		-		
6.	Gajraj		53	54	
7.	Vania		66	67	
8.	Amit		52	53	
9.	Rajesh		56	57	
10.	Akansha		79		
11.	Shivangi		68	69	
12.	Ambika		59	60	
13.	Nidhi		-		
14.	Anub		-		
15.	Vikas		-		
16.	Roshan		69	-	
17.	Anshul		58	-	
18.	Pooja		-		



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Attendance Sheet of BPT (2018-2022)

Name of Faculty: Dr. Nulsate Mathias Subject: Physiology

Month: March 2020

S.No.	Name of Student	Enrollment No.	14/3	14/3	Total Classes at Month End
19.	Dhananjay		-	-	
20.	Ram		-	-	
21.	Indes		-	-	
22.	Tanay		-	-	
23.	Ashok		70	71	
24.	Deepanshu		43	44	
25.	Manisha		60	-	
26.	Babita		41	42	



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Attendance Sheet of BPT (2018-2022)

Month: April 2020

Name of Faculty: Dr. Nikita Mathur Subject: Phy. 107

S.No.	Name of Student	Enrollment No.	Attendance														Total Classes at Month End						
			1/4	2/4	3/4	4/4	5/4	6/4	7/4	8/4	9/4	9/4	10/4	11/4	11/4	13/4		13/4					
1.	Akansha Jain			80				81		82				83		84				85			
2.	Ambika Nehra		61	62	63	64	65	66	67	68	69	70	71	72	73	74					74		
3.	Amit Dhaka		54	55						56													
4.	Arvind Nais			60																			
5.	Ashok Kumar			72	73	74			75	76	77	78	79	80	81	82							
6.	Babita Patel				43	44	45	46	47	48	49	50	51	52	53	54							
7.	Deepanshu		45	46	47	48	49	50	51	52	53	54	55	56	57	58	59						
8.	Dhananjay					53	54	55	56	57	58	59	60	61	62	63							
9.	Grajraj																						
10.	Indira Kumar		43	44																			
11.	Manisha Pasraek																						
12.	Paramjeet				62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	
13.	Suhesh			63																		70	71
14.	Nichhi			22	23																		
15.	Pooja																						
16.	Rajneesh							58															
17.	Ram																						
18.	Roshan								74	75	76	77	78	79	80	81	82						


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* 5/4/2020 - Sunday

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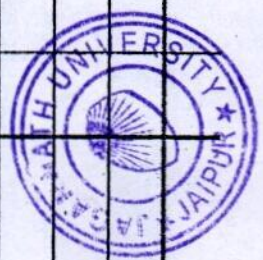
Attendance Sheet of BPT (2018-2022)

Month: April 2020

Name of Faculty: Dr. Nikita

Subject: Physiology

S.No.	Name of Student	Enrollment No.	1/4	2/4	3/4	4/4	5/4	6/4	7/4	8/4	9/4	10/4	11/4	12/4	13/4	13/4	Total Classes at Month End
19.	Shivangi		70	71	70	-	72	-	73	74	75	76	77	77	78	-	
20.	Tanav				54	-	-	-	-	-	-	-	55	-	-	-	
21.	Varid				68	-	-	69	-	-	70	-	71	-	-	-	
22.	Vikas			31	31	-	-	-	-	-	-	-	-	-	-	-	
23.	Yashika		74	75	76	77	78	79	80	81	82	83	84	85	86	87	
24.	Anshul				-	-	-	-	-	-	-	-	-	-	-	-	



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Attendance Sheet of BPT (2018-2022)

Name of Faculty: Dr. XIKITA MATHUR

Subject: Maths

Month: APRIL

2020

S.No.	Name of Student	Enrollment No.	14/4	15/4	16/4	17/4	18/4	18/4	20/4	20/4	21/4	21/4	22/4	Total Classes	Month End
1.	Akansha Jain		86	87	88	90	91	92	93	94	95	96	96	-	-
2.	Ambika Nehra		75	76	77	78	79	80	81	82	83	84	85	86	91
3.	Amit Dharka		57	58	59	60	61	62	63	64	65	66	67	-	-
4.	Ashok Kumar		83	84	85	86	87	88	89	90	91	92	93	94	98
5.	Babita Patel		54	55	56	57	58	59	60	61	62	63	64	65	68
6.	Deepanshu		54	55	56	57	58	59	60	61	62	63	64	65	68
7.	Gayraj														
8.	Jyoti Kumari														
9.	Manisha Paroel		71	72	73	74	75	76	77	78	79	80	81	82	86
10.	Paramjeet														
11.	Subesh														
12.	Nidhi														
13.	Pooja														
14.	Roynesh														
15.	Ram		61												
16.	Roshan														
17.	Dhananjay		83	84	85	86	87	88	89	90	91	92	93	94	97
18.			60	62	63	64	65	66	67	68	69	70	71	72	72



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Attendance Sheet of BPT (2018-2022)

Name of Faculty: Dr. Nikita Mathia
 Subject: BPT
 Month: April 2020

S.No.	Name of Student	Enrollment No.	14/4	15/4	16/4	17/4	18/4	19/4	20/4	21/4	22/4	Total Classes at Month End
18.	Shivangi		79	80	81	82	83	84	85	86	87	93
19.	Tandy		56	57								-
20.	Vania							72		77	78	81
21.	Vikay							32				-
22.	Yashika		88	89		90	91	92	93	94	95	101
23.	Anshul			59	60							-



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Attendance Sheet of BPT 2019-20

Name of Faculty: D. S. Nikita Mathur Subject: Phy. Biology

Month: APRIL 2020

S.No.	Name of Student	Enrollment No.	23/4	23/4	24/4	24/4	25/4	25/4	27/4	27/4	28/4	28/4	29/4	29/4	30/4	Total Classes at Month End
1.	Akansha Jain		97	98	99	100	101	102	103	104	105	106	107	108	109	110
2.	Ambika Nehra		92	93	94	95	96	97	98	99	100	101	102	103	104	105
3.	Amit Dhaka		68	69	70	71	72	73	74	75	76	77	78	79	80	81
4.	Azwind		69	70	71	72	73	74	75	76	77	78	79	80	81	82
5.	Ashok		91	92	93	94	95	96	97	98	99	100	101	102	103	104
6.	Babita Patel		69	70	71	72	73	74	75	76	77	78	79	80	81	82
7.	Deepanshu		64	65	66	67	68	69	70	71	72	73	74	75	76	77
8.	Dhananjay		73	74	75	76	77	78	79	80	81	82	83	84	85	86
9.	Grayson		64	65	66	67	68	69	70	71	72	73	74	75	76	77
10.	Indra Kumar		64	65	66	67	68	69	70	71	72	73	74	75	76	77
11.	Manisha		87	88	89	90	91	92	93	94	95	96	97	98	99	100
12.	Pasameet		90	91	92	93	94	95	96	97	98	99	100	101	102	103
13.	Suhesh		83	84	85	86	87	88	89	90	91	92	93	94	95	96
14.	Nidhi		32	33	34	35	36	37	38	39	40	41	42	43	44	45
15.	Pooja		37	38	39	40	41	42	43	44	45	46	47	48	49	50
16.	Rajnish		72	73	74	75	76	77	78	79	80	81	82	83	84	85
17.	Ram		64	65	66	67	68	69	70	71	72	73	74	75	76	77
18.	Roshan		98	99	100	101	102	103	104	105	106	107	108	109	110	111



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Attendance Sheet of MPT 2019-20

Month: April 2020

Name of Faculty: Dr. Nikita Mathus Subject: Physics

S.No.	Name of Student	Enrollment No.	23/4	24/4	24/4	25/4	27/4	27/4	28/4	28/4	29/4	29/4	30/4	30/4	Total Classes at Month End
19.	Shivangi		94	95	96	97	98	99	100	101	102	103	104	105	107
20.	Tanay		-	-	-	-	-	-	-	-	-	-	-	-	-
21.	Vanita		82	83	84	85	86	87	88	89	90	91	92	93	94
22.	Vikas		-	-	-	-	-	-	-	-	-	-	-	-	-
23.	Yashika		102	103	104	105	106	107	108	109	110	111	112	113	114
24.	Anshul		-	-	-	-	-	-	61	62	63	64	65	66	-



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Attendance Sheet of BPT (2018-2022)

Month: May 2020

Name of Faculty: Dr. NIKITA MATHUR Subject: _____

S.No.	Name of Student	Enrollment No.	1/5	2/5	3/5	4/5	5/5	5/5	6/5	6/5	7/5	7/5	8/5	8/5	Total Classes at Month End	
1.	Akansha Jain		111	112	113	114	115	116	117	118	119	120	121	122	123	124
2.	Ambika		104	105	106	107	108	109			110	111	112	113	114	115
3.	Amit Dhaka				81	82			83	84						
4.	Arvind Nais				77			78								
5.	Ashok Kumar		101	102		103	104				105	106	107	108		
6.	Babita Patel		81	82	83	84	85	86	87	88	89	90	91		92	
7.	Deebanshu					71		72	73		74	75	76	77		
8.	Dhanraj		86	87	88	89	90	91	92	93	94	95	96		97	
9.	Gajraj		69	70	71			72	73	74	75	76	77	78		
10.	Jachra Kumar															
11.	Manisha		98	99	100	101	102	103	104	105	106	107			108	109
12.	Parameet		103	104	105		106	107	108	109	110	111		L	L	L
13.	Subesh		93	94	95		96	97	98	99			100	101		102
14.	Nikhil		42	43			44		45	46						
15.	Pooja		46	47			48									
16.	Rajesh		82	83	84		85	86	87		88	89			90	91
17.	Ram															
18.	Roshan		108	109	110	111	112			113	114				115	116



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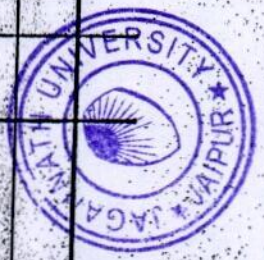
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Attendance Sheet of BPT (2018-2022)

Name of Faculty: Dr. Nikita Math Subject: Maths

Month: May 2022

S.No.	Name of Student	Enrollment No.	1/5	2/5	3/5	4/5	4/5	5/5	5/5	6/5	6/5	7/5	7/5	8/5	8/5	Total Classes at Month End
19.	Shivangi		108	110	111	112	113	114	115	116	117	118	119	-	-	
20	Tanaji		.	.	.	.	.	.	.	.	.	.	.	.	.
21.	Varia		96	97	98	99	100	101	102	103	104	105	L	106	107	
22.	Vikas		.	.	.	.	33	34	.	.	.	35	36	37	38	
23.	Yashika		116	117	118	119	120	121	122	123	124	125	126	127	128	129
24.	Anshul		67	68	.	69	70	71	.	72	.	73	74	.	.	



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Attendance Sheet of BPT 2019-20

Name of Faculty : Dr. Nikita Mathuria

Subject : Physics

Month : May 2020

S.No.	Name of Student	Enrollment No.	9/5	10/5	11/5	12/5	13/5	13/5	14/5	14/5	15/5	15/5	16/5	16/5	18/5	Total Classes at Month End
	Akansha jain		125	126	127	128	129	130	131	132	133	134	135	136	137	138
	ambika nehra		.	116	117	118	119	.	120	121	122	123	124	125	126	
	amit dhaka		85	86	.	87	88	.	.	.	.	89	90	.	.	
	arvind nair		.	79	.	80	.	.	.	.	.	.	.	81	82	83
	ashok kumar		.	.	109	.	110	.	.	.	.	.	.	111	112	.
	babita patel		93	94	95	96	.	97	98	99	.	.	100	.	.	
	deepanshu		78	.	79	.	80	81	.	82	83	.	.	84	85	
	dhananjay		98	99	100	101	.	102	103	104	105	106	107	108	109	
	gajraj		79	80	.	81	.	82	83	.	84	85	.	.	.	
	indra kumar		.	.	.	.	.	.	.	.	.	.	.	.	.
	manisha pareek		110	111	112	113	114	115	116	117	118	119	120	121	122	123
	paramjeet		L	L	112	.	113	114	115	116	117	118	119	120	.	121
	suhesh		103	104	.	105	106	107	108	109	110	111	.	112	.	113
	nidhi		47	48	.	.	.	.	.	49	50	.	.	51	52	53
	pooja		.	.	55	56	57	58	59	.	.	.	.	60	61	62
	rajnesh		.	92	93	94	95	96	97	98	99	100	101	102	.	103
	ram	
	roshan		117	118	.	.	119	120	121	122	123	124	125	.	.	.



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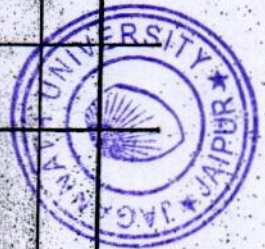
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Attendance Sheet of BPT (2018-2022)

Month: May 2022

Name of Faculty: Dr. Nikita Mathur Subject: Physics

S.No.	Name of Student	Enrollment No.	9/5	10/5	11/5	12/5	13/5	13/5	14/5	14/5	15/5	15/5	16/5	16/5	17/5	18/5	Total Classes at Month End
19	Shivangi			120	121	122	123	124	125	126	127	128	129	130	131	132	
20	Tanay																
21	Vania	108409	110	111	112	113	114	115	116	117	118	119	120	121			
22	Vikas	3940		41	42			43		44				45			
23	Yashika				130	131	132	133	134	135	136	137	138				
24	Anshul		75		76	77	78			79			80	81	82		



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Attendance Sheet of BPT 2019-20

Name of Faculty : Dr. Nikita Mathus Subject : Physiology

Month : May 2020

S.No.	Name of Student	19/5	20/5	21/5	22/5	23/5	23/5	26/5	27/5	28/5	29/5	30/5	1/6	Total classes at Month End		
1.	aKansha Jain	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153
2.	Ambika Nehra	127	128	129	130	131	132	133	-	-	134	135	-	-	-	-
3.	Amit Dhaka	-	-	-	-	94	-	-	-	-	-	-	-	-	-	-
4.	Arvind Nais	84	-	-	-	-	-	-	-	-	85	-	-	-	-	-
5.	Ashok Kumar	113	114	115	116	117	118	119	120	-	-	-	86	-	-	-
6.	Babika Patel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.	Deepanshu	86	87	88	89	-	90	91	92	93	-	-	-	-	-	-
8.	Dhananjay	-	110	111	112	113	114	115	116	117	118	119	120	121	122	123
9.	Gajraj	-	-	-	-	86	-	-	-	-	-	-	-	87	-	88
10.	Indrakumar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.	Manisha Parsook	124	125	126	127	128	129	130	131	132	-	133	-	134	135	-
12.	Paramjeet	122	-	-	-	123	-	124	-	-	-	125	-	126	127	-
13.	Suhesh	114	-	-	-	115	-	116	117	118	119	-	-	-	120	121
14.	Nidhi	54	-	55	-	-	-	56	57	58	-	59	-	-	-	60
15.	Pooja	63	64	65	66	-	67	68	69	70	71	72	73	-	74	-
16.	Rajnish	104	105	106	107	108	109	110	111	112	113	-	114	-	115	116
17.	Ram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18.	Roshan	-	126	127	-	-	128	129	130	-	-	131	132	-	133	-



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Total No. of classes
= 179

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Attendance Sheet of BPT 2019-20

Month : MAY 2020

Name of Faculty : D.S. Nikita Mathur Subject : Physiology.....

S.No.	Name of Student	Enrolment No.	21/5	22/5	23/5	23/5	23/5	26/5	27/5	28/5	29/5	30/5	1/6	Total classes at Month End
19.	Shivangi	132	133	-	-	136	137	138	-	-	139	-	-	
20.	Tanay	-	-	-	-	-	-	-	-	-	-	-	-	
21.	Vanid	122	123	124	125	128	129	130	131	133	134	135	136	
22.	Vikas	-	-	46	47	-	48	-	49	50	51	-	-	
23.	Yashika	139	140	141	142	144	145	147	148	149	150	151	152	
24.	Anshul	83	84	-	-	85	86	87	88	89	90	-	-	

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 ASSIGNMENT EVL SHEET OF BPT (2018-2022) Year:

Class Level Assignments

Subject: Physiology

Feb March 10/4 30/4 22/5

S.No	Name of Student	Enrollment No.	Assign.1	Assign.2	Assign.3	Assign.4	Assign.5	Assign.6	Assign.7	Assign.8	Total
1.	Paramjeet		7.5	✓	90	80	95				
2.	Yashika		15.5	✓	95	90	100				
3.	Aruvind		AB	✓	-	-	-				
4.	Suhesh		AB	✓	-	80	70				
5.	Pushpendra		AB	✓	-	-	-				
6.	brayraj		AB	✓	-	-	-				
7.	Vania		AB	✓	90	-	95				
8.	Amit		AB	✓	-	-	-				
9.	Raynesh		AB	✓	-	-	90				
10.	Akanshs		7	✓	70	90	95				
11.	shwangi		AB	✓	75	90	70				
12.	Ambika		AB	✓	75	80	75				
13.	Nuolli		AB	✓	-	-	-				
14.	Vikas		AB	✓	-	-	-				
15.	Roshan		14	✓	90	90	-				
16.	Anshul		AB	✓	-	-	70				
17.	peerja		AB	✓	-	-	-				

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ASSIGNMENT EVL SHEET OF BPT (2018-2022) Year:

Subject: ...Psychology.....

S.No	Name of Student	Enrollment No.	Feb. Assign.1	March Assign.2	April Assign.3	April Assign.4	May Assign.5	Assign.6	Assign.7	Assign.8	Total
18	Dananjay		AB	✓	—	90	95				
29	Ram		4.5	✓	—	—	—				
20	Incles		2	✓	—	—	—				
27	Taray		AB	✓	90	—	—				
28	Ashok		7	AB	90	—	—				
23	Debarshu		1	✓	90	—	92				
25	Manisha		AB	✓	—	90	85				
25	Babita		—	—	90	95	—				



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Date : _____ Page : _____

Topic : _____

NAME : **YASHIKA BASUR**

COURSE : **BPT 1ST YEAR**

SUBJECT : **PHYSIOLOGY**

SUBMITTED TO : **NIKITA MA'AM**

SUBMISSION DATE : **18 Jan. 2020**

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Date: 17/1/20

Page: 1

Topic:

Cardiac Cycle

The 'Cardiac Cycle' is the performance of the human heart from the ending of one heart beat to the beginning of the next.

Definition:

Cardiac cycle is defined as the succession of (sequence of) coordinated events taking place in the heart during each beat.

Each Heartbeat consists of two major periods:-

(i) SYSTOLE (Contractions)

(ii) DIASTOLE (Relaxations)

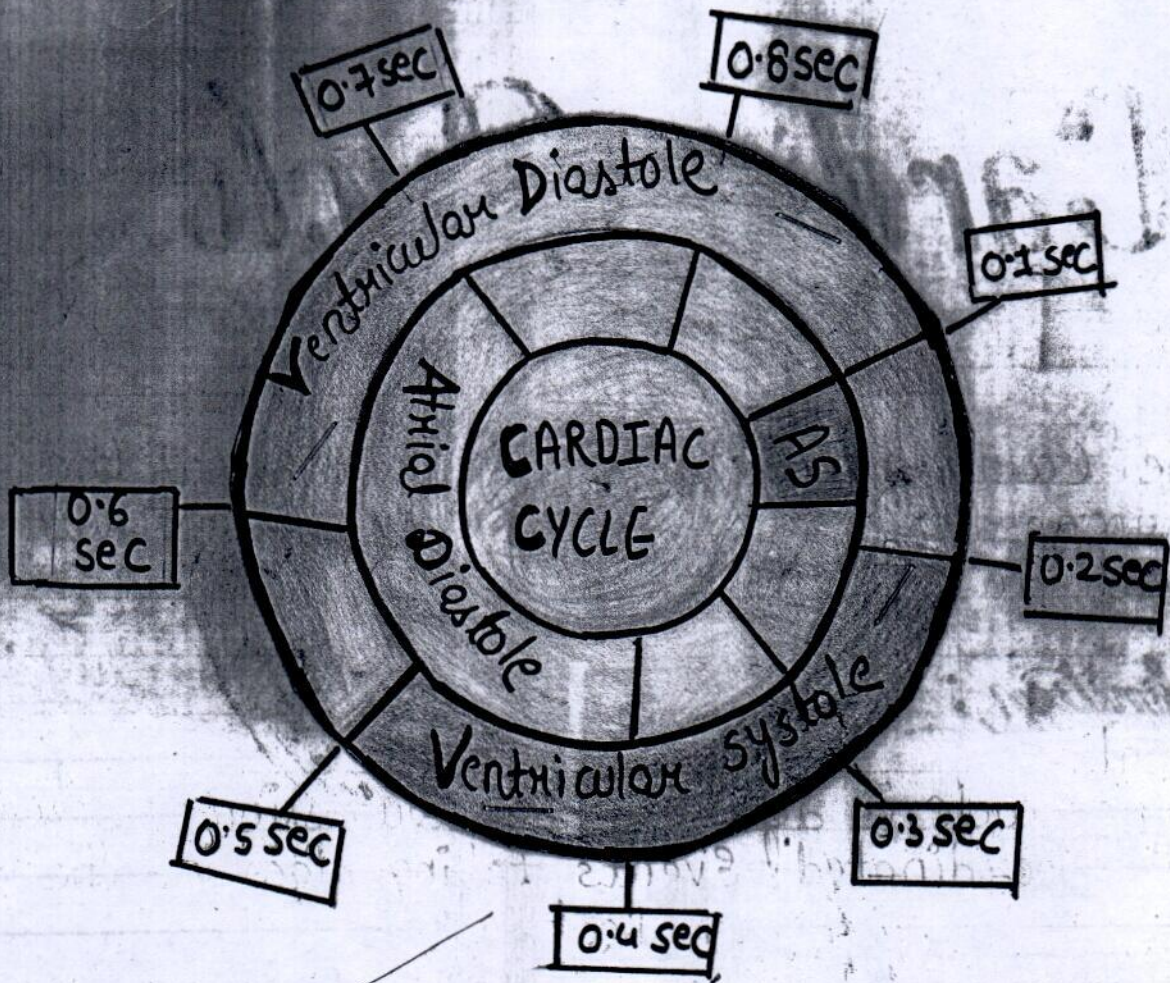


During 'SYSTOLE' heart contracts and pumps the blood through arteries.

During 'DIASTOLE' heart relaxes and blood is filled in the HEART.

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Graph

- SYSTOLE
- DIASTOLE

Fig: Atrial and Ventricular Events
of Cardiac Cycle

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Topic:

Duration of Cardiac Cycle

Duration:- Duration of each Cardiac cycle is about 0.8 seconds.

Heart beat at normal rate is 72 beat per minute

Events of Cardiac Cycle

Events are classified into two types:-

(a) ATRIAL EVENTS

(b) VENTRICULAR EVENTS

Description of Atrial Events

Atrial Events are divided into two divisions:-

(i) Atrial Systole

(ii) Atrial Diastole

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Date: 17/11/20

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Topic:

Atrial Systole

During this period only a small amount i.e 10% of blood is forced from Atria into Ventricles

Atrial systole is not essential for the maintenance of circulation. Many persons with ATRIAL FIBRILLATION survive for several years without suffering from circulatory insufficiency. However, such persons feel difficult to cope up with the 'PHYSICAL STRESS' like Exercise

Duration of Atrial Systole

Atrial systole is last about 0.11 (0.1) seconds

It is also known as 'Last Rapid Filling Phase' or 'Presystole'

It is usually considered as Last Phase of ventricular Diastole.



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Date : 17/11/20

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Topic :

Pressure & Volume Changes

During atrial systole, the intra-atrial pressure increases. Intra-ventricular pressure and ventricular volume also increase.

Fourth Heart Sound

Contraction of atrial musculature causes the production of fourth heart sound normally,

It is an inaudible sound.

It becomes audible only in pathological conditions during ventricular stiffness. It occurs in the conditions like: ventricular hypertrophy, long standing hypertension and aortic stenosis.

To overcome the ventricular stiffness the atria contract forcefully producing audible 4th heart sound.



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Topic :

Atrial Diastole

After 'Atrial Systole', the atrial diastole starts simultaneously, Ventricular systole also starts.

DURATION:- Atrial Diastole last for about '0.7 second' (average duration is 0.69 Sec)

This long 'Atrial Diastole' is necessary because this is the period during which 'Atrial filling' takes place.

Right atrium receives 'Deoxygenated blood' from all over the body through 'Superior and Inferior Venae Cavae'.

Left Atrium receives 'Oxygenated Blood' from Lungs through 'Pulmonary Veins'.

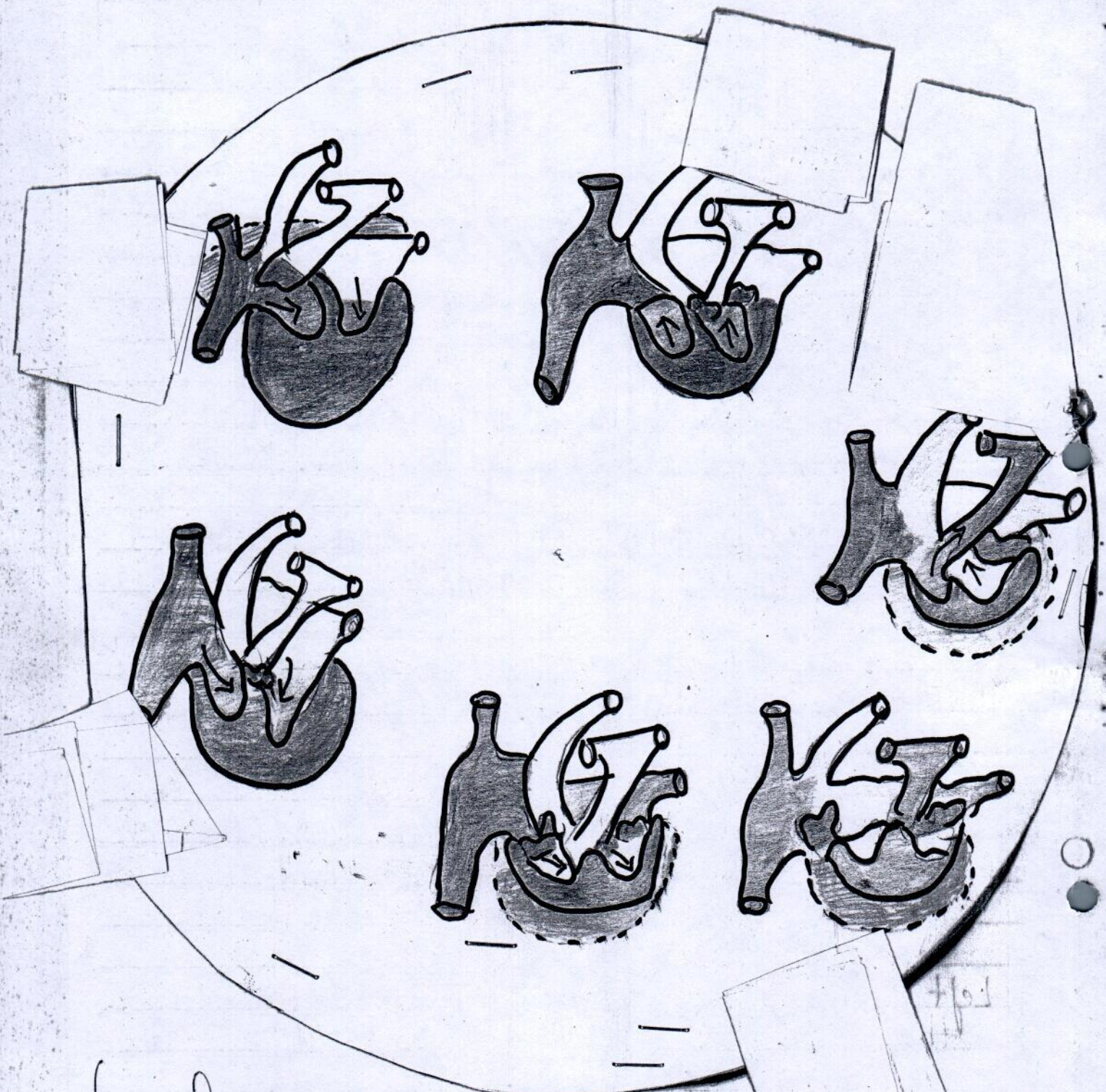
It is the period during which the two Atria likewise relaxing under suction, dilating and filling.



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EVENTS OF CARDIAC CYCLE



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Page : 6

Topic :

Description of Ventricular Events

Ventricular Events are divided into two divisions:-

(i) VENTRICULAR SYSTOLE

(ii) VENTRICULAR DIASTOLE

Subdivisions of Ventricular Events

VENTRICULAR SYSTOLE (0.27 sec)	
1) Isometric Contraction	0.05 sec
2) Ejection Period	0.22 sec
VENTRICULAR DIASTOLE (0.53 sec)	
1) Protodiastole	0.04 sec
2) Isometric Relaxation	0.08 sec
3) Rapid filling	0.11 sec
4) Slow filling	0.19 sec
5) Last Rapid filling (Atrial systole)	0.11 sec

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Topic :

Isometric Contraction Period

1) Isometric Contraction period in cardiac cycle is the first phase of ventricular systole

DURATION:- Isometric Contraction is last for about 0.05 sec

2) It is the type of muscular contraction characterized by increase in Tension without any change in the length of "muscle fibres".

3) It is also called "Isovolumetric Contraction"

4) Immediately after Atrial systole. The AV valves are closed due to increase in ventricular pressure

5) Semilunar Valves are already closed. Now ventricles contract as closed cavities in such a way that there is no change in volume of ventricular chambers or in length of muscle fibres.



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Topic:

- 6) Only the tension increases in Ventricular musculature
- 7) Because of increased tension in Ventricular musculature during Isometric contraction the pressure increases sharply inside the ventricles.

First Heart Sound

Closure of 'AV' valves at beginning of this phase produces 'First heart sound'.

Significance of Isometric Contraction

During Isometric contraction the Ventricular pressure increases greatly

When this pressure increases above the pressure in Aorta and Pulmonary Artery the SEMILUNAR VALVES open.

Thus, the rise in Ventricular pressure caused by Isometric contraction is responsible for "OPENING OF SEMILUNAR VALVES". This leads to Ejection of Blood from ventricles into aorta and Pulmonary artery



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Atrial & Ventricular Events

Primary action	Duration of sub-divisions (second)	Subdivisions	Duration of divisions (second)	Divisions	Duration of events (second)
ventricular firing	-	-	0.11	Atrial systole	0.8
Atrial firing	-	-	0.69	Atrial diastole	
Steep rise in pressure	0.05	IsoVolumetric C-Period	0.27	ventricular systole	0.8
Pumping of blood into ventricle	0.13	Rapid Ejection Period			
"	0.09	Slow Ejection Period			
Beginning of diastole	0.04	Protodiastole	0.53	ventricular diastole	
Rapid fall in pressure	0.08	IsoVolumetric R-Period			
filling of ventricle	0.11	First rapid filling phase			
	0.19	Slow filling phase			
	0.11	Last rapid filling phase			

Atrial Events

Ventricular events



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Topic:

Ejection Period

1) Due to the opening of Semilunar Valves and Isotonic contraction of Ventricles, blood is ejected out of both the ventricles. Hence, this period
DURATION:- 0.2 second

It consists of two stages :- 1) 1st (Rapid Ejection Period)
2) 2nd (Slow Ejection Period)

(a) Rapid Ejection Period

1. First stage starts immediately after the opening of Semilunar valves
2. During this stage, a large amount of blood is rapidly ejected from both the ventricles.
3. DURATION:- It lasts for 0.13 seconds



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Topic:

(b) Slow Ejection Period

1) During this stage, the blood is ejected slowly with much less force.

2) DURATION:- Duration of this period is 0.09 seconds

End-Systolic Volume

Ventricles are not emptied at the end of ejection period and some amount of blood remains in each ventricle.

The amount of blood remains in each ventricle at the end of ejection period (i.e. at the end of systole) is called End Systolic Volume.

It is 60 to 80 ml per ventricle.



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Topic :

Protodiastole

Protodiastole is the first stage of ventricular diastole hence the name Protodiastole. Duration of this period is about 0.04 second

Due to the ejection of blood, the pressure in aorta and pulmonary artery increases and pressure in ventricles drops

When intraventricular pressure becomes less than the pressure in Aorta and Pulmonary Artery. The semilunar valves close.

Atrioventricular valves are already closed. No change occurs in the heart during this period

Thus, Protodiastole indicates only the end of systole and beginning of diastole.



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Topic:

Second Heart Sound

Closure of semilunar valves during this phase produces 'Second Heart Sound'.

Isometric Relaxation Period

Isometric relaxation is the type of musculature relaxation characterized by decrease in tension without any change in length of muscle fibres. Isometric relaxation of ventricular muscle is also called "Isovolumetric Relaxation".

During Isometric Relaxation Period, once again all the valves of the heart are closed. Now, both the ventricles relax as the closed cavities without any change in volume or length of the muscle fiber. Intraventricular pressure decreases during this period. Duration of Isometric Relaxation period is '0.08' second.



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Topic :

Significance of Isometric Relaxation

During isometric relaxation period, the ventricular pressure decreases greatly. When the ventricular pressure decreases becomes less than the pressure in the Atria, the atrioventricular valves open. Thus, the fall in pressure in the ventricles, caused by Isometric Relaxation is responsible for the opening of Atrioventricular valves, resulting in filling of Ventricles.

Rapid filling Phase

When Atrioventricular Valves are opened, there is a sudden rush of Blood from Atria into Ventricles

So, this is the period during last about 0.11 second

Ventricles also undergo Isotonic Relaxation.

It is also called First Rapid filling period.



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Topic :

Third Heart Sound

Rushing of blood into ventricles during this phase caused production of Third heart sound

Slow Filling Phase

After the sudden rush of blood the ventricular filling becomes slow. Now it is called the slow filling. It is also called Diastasis

About 20% of filling occurs in this phase.
Duration of slow filling phase is 0.19 second

Last Rapid Filling Phase

Last rapid filling phase occurs because of Atrial systole. After slow filling period, the atria contract and push a small amount of blood into ventricles

About 10% of ventricular filling takes place during this period. Flow of additional amount of blood into ventricle due to Atrial systole is called Atrial kick.



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