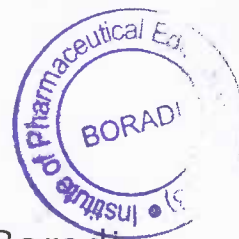




Kisan Vidya Prasarak Sanstha's

Institute of Pharmaceutical Education, Boradi



2.2.1 *The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners*

INDEX

Sr. No.	Particular	Page No.
PROGRAMS FOR ADVANCED LEARNERS		
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SPECIAL PROGRAMS FOR SLOW LEARNERS		
3	Question bank	12-15
4	Notes	16-20
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6	Solved University question paper	23-56



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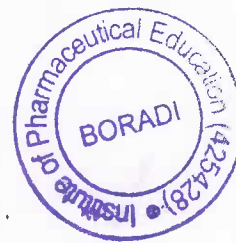
PROGRAMS FOR ADVANCED LEARNERS

- ✦ College has specific planned programs for advanced learners for encouraging them to participate in various competitions for research project, poster presentation, model making competition at University/State/National and International level.
- ✦ The advanced learners are encouraged to attend seminar, workshops, guest lectures and industrial visits.
- ✦ Arrangements are made for coaching for competitive exams like GPAT for higher studies.
- ✦ The academic achievers from each class are awarded with medal and certificate during Independence day and Republic day Celebration. Flag hosting is done by the academic achievers from each class during Independence day and Republic day Celebration
- ✦ The advance learners are encouraged to attend the certificate courses like CASI conducted by college.



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PARTICIPATION IN WEBINARS

ACADEMIC YEAR: 2021-22

REPORT OF ONE DAY WEBINAR ON

Title of activity: Carrier in pharma and virtual industrial training Programme

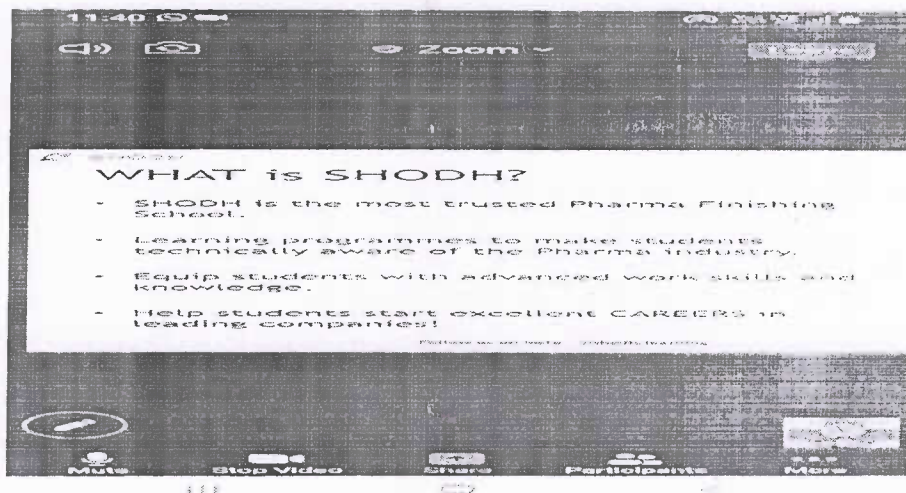
Title of activity: One day webinar on Carrier in pharma and virtual industrial training Programme

Date and Venue: 16 Feb, 2022, K.V.P.S. Institute of Pharmaceutical education Boradi.

Description of activity:

KVPS'S Institute of Pharmaceutical education organised one day webinar on Carrier in pharma and virtual industrial training Programme on 16/02/2022. Principal Dr. P.H. Patil welcome resource person. Mr.Nikhil Chaudhari CEO of Shodh Advantech. Mr. Nikhil Chaudhari give its expert talk on how student can avail virtual industrial training facilities by using various virtual programmes in the era of covid-19. He also gives some of the glimpse on carrier oppourtunities. and Dr. S.M. Mahajan give vote of thanks and conclude the session.

No. of Student Participated:90



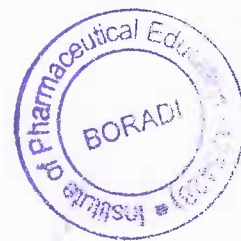

Principal

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Education Boradi-425 428



Kisan Vidya Prasarak Sanstha's

Institute of Pharmaceutical Education, Boradi



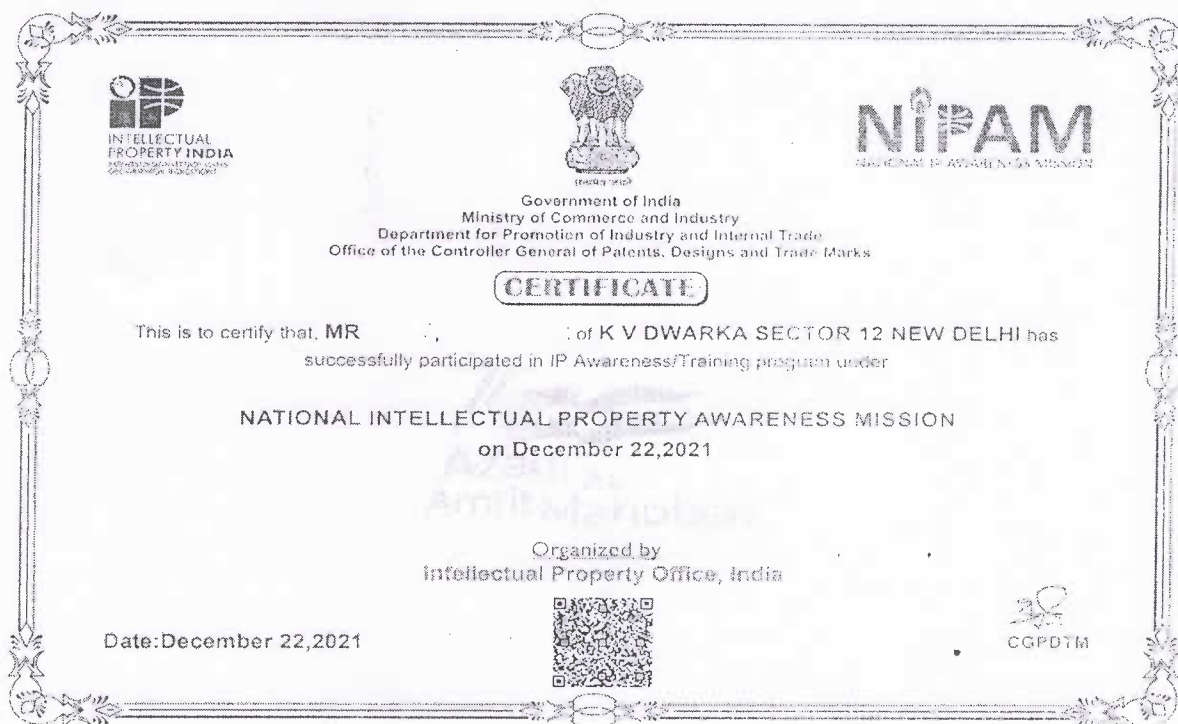
Title of activity: Online workshop on “Intellectual property rights (IPR) – Patents and Design Process” in association with RGNIPM Nagpur

Date and Venue: 17/2/2022 KVPS Institute Of Pharmaceutical education Boradi

Description of activity:

KVPS'S Institute of Pharmaceutical education organised workshop on “Intellectual property rights (IPR) – Patents and Design Process” in association with RGNIPM Nagpur. Dr. P.H Patil sir welcome Eminent speaker Dr. Bharat N Suryawanshi Assistant controller of patents and design RGNIPM Nagpur. Dr. Bharat N Suryawanshi sir elaborated the legal and technical aspect of patenting of an molecule. formulation he also share its expertise in Design patents. Mr. Swapnil chaudhari sir gives votes of thanks and concluded the session

No. of Student Participated: 166





सत्यमेव जयते
Government of India
Ministry of Commerce and Industry
Startup and Innovation Cell

NIPAM



Institute of Pharmaceutical Education, Boradi (NAAC B+) in Association with
RGNIPM, Govt of India Nagpur
Organizing National Workshop on

Intellectual Property Rights (IPR) - Patent & Designs process

On Thursday, 17 February 2022 at 11:30 to 12:30 PM

Speaker

Dr. Bharat N. Suryawanshi
Assistant Controller of Patents and Design

Convenor

Dr. Prakash H. Patil
Principal I.P.E. Boradi

Co-Convenor

Mr. Kalpesh S. Wagh
Asst Professor I.P.E. Boradi

Coordinator

Mr. Swapnil P. Chaudhari
Startup and Innovation Cell I.P.E. Boradi

Mode of Program: Online on Zoom app

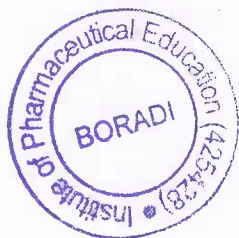
Registration Link: <https://forms.gle/oTDiLrQjDCVS6LYu6>

E-certificate will be provided to the registered participant who attend the workshop

Website: kvsipeboradi.co.in
Email: boradiphararmacy@rediffmail.com



Institute Address:
Atpost Boradi Tal Shirpur Dist Dhule
Maharashtra

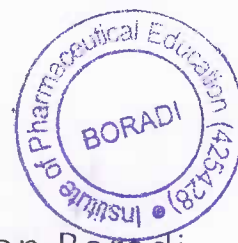



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Kisan Vidya Prasarak Sanstha's

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REPORT OF TWO DAY WORKSHOP ON HANDS ON TRAINING OF HPLC

Title of activity: TWO DAY WORKSHOP ON HANDS ON TRAINING OF HPLC in association with R.S.I.T.C Jalgaon

Date and Venue: 19/12/2021 and 20/12/2021

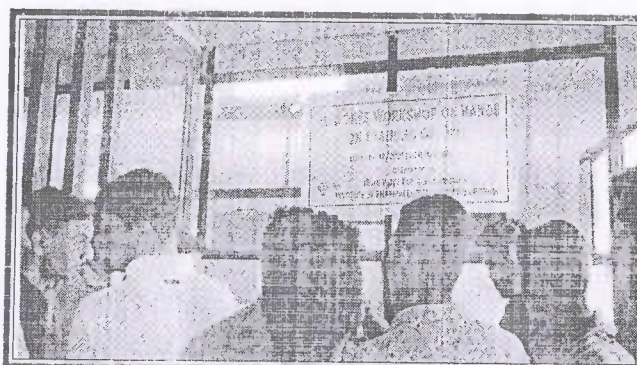
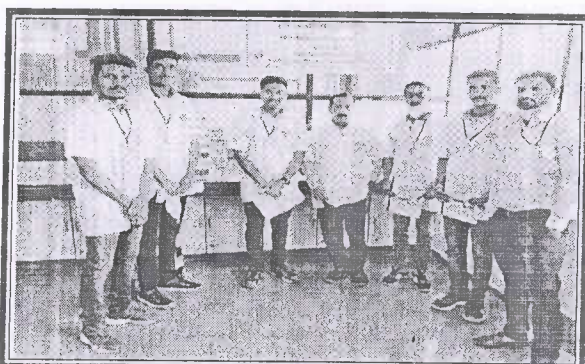
Description of activity:

KVPS'S Institute of Pharmaceutical education organised one TWO DAY WORKSHOP ON HANDS ON TRAINING OF HPLC in association with R.S.I.T.C Jalgaon. Hon. Principal Dr.P.H.Patil gives information about the achievements of our sansthas and institute to the eminent resource person Mr. Vispute Anil director of R.S.I.T.C Jalgaon.

Mr Anil Vispute sir on first day gives the detail theoretical information about the instrumentation and the parts of the instruments to the students of M. Pharm and B. Pharm. He shares his experience with the instrument to the student with the experimentation and also share how to overcome the various troubleshooting problems that arise during its operation.

On day two, their experiments are conducted on HPLC instrument and each student is trained for handling of the HPLC instruments.

Mr. Pritam Pawara sir gives votes of thanks after concluding session.



TWO DAY WORKSHOP ON HANDS ON TRAINING OF HPLC dated 19 th and 20 th

Dec-2021

No. of Student Participated: 35

Principal
Institute of Pharmaceutical Education



Kisan Vidya Prasarak Sanstha's

Institute of Pharmaceutical Education, Boradi



Guest Lecture for GPAT Aspirants

PREPARATION OF GPAT AND CARRIER COUNSELLING

REPORT OF ONE DAY NATIONAL WEBINAR ON

Title of activity: National Webinar on topic "GPAT ONLINE GURU".

Date and Venue: 17th Sept 2021, K.V.P.S. Institute of Pharmaceutical education Boradi.

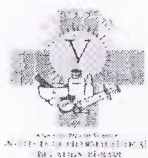
Online mode: Zoom app

Description of activity:

KVPS'S Institute of Pharmaceutical education organised National Webinar on topic "GPAT ONLINE GURU" on 17th Sept 2021. The main objective of this webinar is to give brief knowledge about the GPAT exam preparations to the Third year and final year student to update their knowledge.

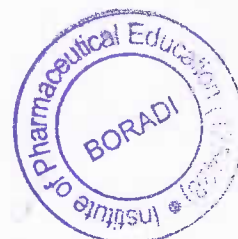
No. of students Participants:-102

Sl.no	Email Address	Score	Name of Student	Contact No. of Students	Name of College / Grant	Students' Teacher	Address
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9/14/2021 15:18:52	anushkaashankar78@gmail.com		Harshita Anushka	9165551727	KVP'S IPE SORATHI	Thiruvananthapuram	Chennai
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Kisan Vidya Prasarak Sanstha's

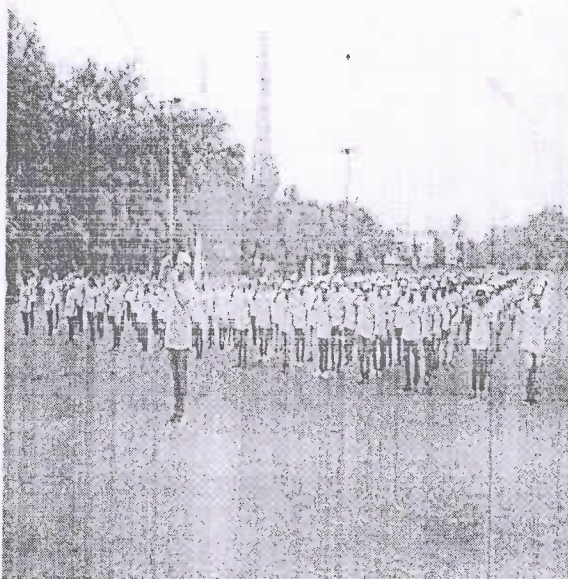
Institute of Pharmaceutical Education, Boradi



HONOUR OF THE ACADEMIC ACIEVERS

The academic achievers from each class are awarded with medal and certificate during Independence day and Republic day Celebration. Flag hosting is done by the academic achievers from each class during Independence day and Republic day Celebration

Academic Achievers from first term are honored on Republic day and Academic Achievers from second term are honored on Independence day.



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SPECIAL PROGRAMS FOR SLOW LEARNERS

Slow learner will be given assignments; instructions and most importantly support to improve their performance.

1. Question banks are provided to the students containing important questions on the topic and frequently asked questions in the University examination.
2. Solved University examination question papers are given to the students.
3. Students are encouraged to watch videos/recorded lectures uploaded on Whats app groups of respective subjects for students. for better understanding of the subject.
4. Notes are provided in class room and uploaded on Whats app groups of respective subjects for students. The power point presentations are also uploaded Whats app groups of respective subjects for students..
5. Tutorial/Remedial Classes are organized for selected subjects.
6. Assignments are given to the students to enhance self-learning.
7. Students having poor performance in in-semester assessment tests/sessional examination are given an opportunity to appear for re-assessment/improvement sessional examination.
8. Individual attention is given to the students, where sessions are conducted to solve student's difficulties/doubts.
9. The institute organizes orientation programmes. communication workshop, personality development programmes for improvement of the soft skill of the students.



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SAMPLE QUESTION BANK PROVIDED BY TEACHER

Subject :Human Anatomy and Physiology-II (BP201T)

Semester:II

Topic: Endocrine System

Name of Subject Teacher: Mr.Pankaj M.Chaudhari

Type of Question: M.C.Q.for 2 Marks each

1. Which of these is true of the endocrine system?
 - A. secretes hormones that are transported to target cells by blood
 - B. causes changes in metabolic activities
 - C. effects are prolonged
 - D. **All of above are true.**
2. Name the gland that is located at the base of the throat, just inferior to the laryngeal prominence (Adam's apple) .
 - A. Pituitary.
 - B. Pineal gland.
 - C. Hypothalamus.
 - D. **Thyroid**
3. What gland is located just superior to the kidneys?
 - A. Pituitary.
 - B. **Adrenal.**
 - C. Pancreas.
 - D. ovaries
4. In the pancreas, which are the cells that secrete insulin. decrease the blood levels of glucose.
 - A. delta.
 - B. alpha.
 - C. gama.
 - D. **beta.**
5. The endocrine gland responsible for the body's circadian rhythm is the:
 - A. Thymus gland.
 - B. **Pineal gland.**
 - C. Parathyroid gland.
 - D. Pituitary gland.
6. Endocrine glands differ from exocrine glands in that:

- A. **Endocrine glands are ductless and exocrine glands release secretions at the body's surface or into ducts.**
- B. Endocrine glands release hormones, whereas exocrine glands release waste.
- C. Endocrine glands are formed by epithelial tissue, but exocrine glands are primarily connective tissue.
- D. Endocrine glands are all interconnected; whereas exocrine glands act completely independently.
7. Which of these is not an endocrine property?
- A. hormones reach targets through the blood
- B. effects are slow and cyclic
- C. **rapid acting effects**
- D. effects caused by chemicals.
8. The primary target of the releasing and inhibiting hormones of the hypothalamus is the:
- A. Liver and adipose tissue
- B. Gonads
- C. **Anterior pituitary**
- D. Bone marrow
9. Which of these is not an endocrine gland?
- A. Pancreas.
- B. Testes.
- C. **Salivary gland.**
- D. Parathyroid.
10. Which is not a function of the hypothalamus?
- A. Affect heart rate
- B. Control temperature
- C. Affect water balance
- D. **Secrete FSH**
11. Which if the following gland which can be classified as an endocrine and an exocrine gland?
- A. Thyroid.
- B. Thymus.
- C. **Pancreas.**
- D. Pituitary.
12. Which of these hormones is made by the posterior pituitary?
- A. FSH
- B. LH
- C. ACTH
- D. **ADH**
13. Which gland controls basal metabolic rate (BMR)?
- A. **Thyroid.**
- B. Parathyroid.
- C. Testes.
- D. Pancreas.

14. How do hormones from the thyroid and parathyroid regulate the calcium concentration of the blood?
- A. **Calcitonin lowers blood calcium; parathyroid hormone raises blood calcium.**
 - B. Parathyroid hormone lowers blood calcium; calcitonin raises blood calcium.
 - C. Thyroxine and triiodothyronine together regulate calcium levels, as needs dictate.
 - D. Both parathyroid hormone and the three thyroid hormones function to regulate blood calcium levels.
15. The posterior pituitary stores and releases:
- A. Growth hormone and prolactin.
 - B. Prolactin and oxytocin.
 - C. **Oxytocin and antidiuretic hormone (ADH).**
 - D. ADH and growth hormone.
16. Which of the following hormones are responsible for the "fight-or-flight" response?
- A. **Epinephrine and norepinephrine.**
 - B. Insulin and glucagon.
 - C. Estrogen and progesterone.
 - D. Thyroxine and melatonin.
17. The pituitary hormone that stimulates the male testes to produce sperm and stimulates the development of the follicle in the female on a monthly cycle is:
- A. growth hormone
 - B. luteinizing hormone
 - C. prolactin
 - D. **follicle-stimulating hormone**
18. Which hormones of the adrenal glands supplement the sex hormones from the gonads?
- A. Mineralocorticoids, such as aldosterone
 - B. Glucocorticoids, such as cortisol
 - C. **Androgens, such as the androgens**
 - D. Epinephrine and norepinephrine.
19. The clusters of cells in the pancreas that produce hormones are the:
- A. Nodules.
 - B. **Islets of Langerhans.**
 - C. Pancreatic medulla.
 - D. Pancreatic cortex.
20. The Glucagon is:
- A. **accelerates the conversion of glycogen into glucose.**
 - B. slows down glucose formation from lactic acid.
 - C. decreases the conversion of glycogen into glucose.
 - D. speeds up protein synthesis within cells.
21. Most hormones of the endocrine system are regulated by a:
- A. **Negative feedback mechanism.**
 - B. Positive feedback mechanism.
 - C. Hormone-receptor complex.

- D. Hormone-gene complex.
22. Calcitonin is a hormone of which of following:
- A. Adrenal cortex.
 - B. Thyroid gland.**
 - C. Pituitary gland.
 - D. Thymus gland.
 - E. None of the above.
23. Calcium level in the blood is regulated by the:
- A. Thyroid.
 - B. Parathyroid.
 - C. Posterior pituitary.
 - D. Adrenal medulla.
 - E. A and B.**
24. All of the following are hormones of the anterior pituitary except:
- A. Human growth hormone (GH).
 - B. Follicle-stimulating hormone (FSH).
 - C. Parathyroid hormone(PTH).**
 - D. Thyroid-stimulating hormone (TSH).
25. The secretions from which of these glands differs between males and females?
- A. Adrenal.
 - B. Parathyroid.
 - C. Gonadal.**
 - D. Pancreas.



SAMPLE NOTES PROVIDED BY TEACHER

A. Adrenostimulants / catecholamines

- Sympathomimetic / Adrenergic drugs

250- These are the drugs which produces responses similar to that of sympathetic nerve stimulation.

- Many of these drug contains in their chemical structure aminogroup (NH_2). so they are called as sympathomimetic amines.

Classification -

A) chemical classification -

1) Catecholamines - They contain presence of OH group at the third & fourth position of benzene ring (catechol nucleus).

eg - Adrenaline

noradrenaline

dopamine

Isoprenaline.

2) Non catecholamines - They do not contain

OH group at the 3rd & 4th position of benzene ring.

eg - Ephedrine

Amphetamin

B) Therapeutic classification -

1) Use to raise blood pressure -

eg - nor adrenaline

methoxamine.

2) Use as positive inotropic agents - - to force heart to work

eg - Dopamine

dobutamine

Xamoterol.

3) Smooth muscle relaxants -

eg - Adrenaline

4) Local Vasoconstrictor -

eg - Adrenaline
phenylephrine

5) Use in allergic conditions -

eg - Adrenaline
ephedrine

6) Use as CNS stimulant -

eg - Amphetamine

7) Use as appetite suppressant -

eg - Fenfluramine

Mechanism of Action -

Catecholamines directly combines with adrenergic receptors which are present on cell membrane.

There are 2 types of receptors for catecholamines α receptors & β receptors.

1) α receptors are of 2 types α_1 & α_2 .

2) β receptors are of 3 types β_1 , β_2 & β_3 .

1) α_1 receptors are present in -

a) Blood vessels supplying to skin & mucous membranes.

b) Radial muscle of iris

c) male sex organs.

2) α_2 receptors are present in -

a) Pancreatic B cells, platelets & certain blood vessels.

1) β_1 receptors are present in heart.

2) β_2 receptors are present in blood vessels supplying to skeletal muscles.

- smooth muscle of G.I.T, urinary tract, bronchi uteri & etc.

BBB - semipermeable membrane ^{barrier} that separates the circulating blood from the brain & extracellular fluid in the CNS.
Adrenaline when injected after the use of α -blockers it mainly produces fall in BP instead of rise
eg - Esgotopin.

2) Smooth muscles -

a) Bronchial smooth muscles - Adrenaline produces potent bronchodilation of smooth muscles.

b) G.I.T - Relaxation of smooth muscles of G.I.T.

c) Urinary bladder - Relaxation of muscles. The sphincter are constricted.

d) Uterus - Effect on uterus depends on species present or gestation.
- Rat uterus always relax
- On human pregnant uterus relax from contracted.

3) Metabolism - On carbohydrate metabolism adrenaline increases blood sugar level (hyperglycemia) by accelerating glycogenolysis in liver.

- On lipid metabolism - increase FFA (Free Fatty acid) level by increase lipolysis - breakdown of triglycerides into glycerol & fatty acids.

4) CVS - Catecholamine poorly cross blood brain barrier so no significant effect.

5) Respiration -

Improvement in respiration with adrenaline because of bronchodilation.

~~negative heart beat~~

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 2. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

Internal Migration

caused by excess
fluid in lungs, slight
breath.

caused by excess
fluid in lungs, slight
breath.

- 1) In acute bronchial asthma by s.c injection
q 0.5-1 ml in 1:1000 AD^m
- 2) In acute anaphylaxis.
- 3) Cardiac resuscitation - adrenaline injected
immediately 0.3 mg in heart chamber.
- 4) Dental extraction - To control bleeding.
- 5) nasal decongestant.

Ephedrine - It is a alkaloid obtained from ephedra plant.

1) C.V.S -

Heart - It increases force of contraction of heart, $\uparrow$ cardiac output, BP $\uparrow$.

① Ca^{2+} relaxes bronchial smooth muscle

② VBA smooths muscle fibres

3) QVS - rt stimulates CNS & produces restlessness tremors, insomnia.

cytogenetic factors cytoplasma. For ¹⁰⁰Relaxation of the

5) metabolic effect - it increases the metabolic rate of oxygen consumption

Therapeutic uses -

- ① bronchial asthma
- ② Nasal congestion
- ③ Hypotension
- ④ Narcolepsy - Tendency to fall asleep
- ⑤ myasthenia gravis - weakness of skeletal muscles
- ⑥ Heart block - strokes -

Adverse effect -

palpitation, tremors, severe hypotension,

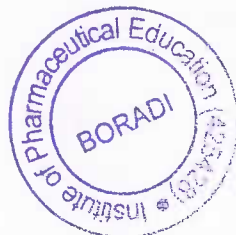
② Amphetamine -

- ① CVS - ↑ H.R. ↑ blood contraction
- ② CNS
- ③ smooth muscles - contraction of blood vessels
- ④ Appetite suppressant - it reduces appetite probably by acting on hypothalamic area concerned with feeding.

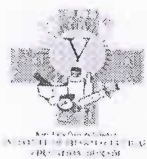
⑤ miscellaneous - it has moderate anticonvulsant activity & useful in petit mal epilepsy. → occurrence of absence seizure, loss of consciousness

Therapeutic uses -

- ① Narcolepsy - sleep occurring in A.S.
- ② As an anorexifant (reduce appetite).




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Kisan Vidya Prasarak Sanstha's

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TUTORIAL LECTURES TIME TABLE



Kisan Vidya Prasarak Sanstha's
Institute of Pharmaceutical Education, Boradi
(B. Pharm.)
TIME TABLE (2021/2022)

CLASS: - First Y.B.Pharm

YEAR: - DEC 2021

SEMESTER- I (DIVISION-A)

Days	(Practical) 10.00 a.m. to 2.00 p.m.					(Theory) 2.30 pm to 3.30 pm	(Theory) 3.30 pm to 4.30 pm	(Theory) 4.30 pm to 5.30 Pm
	Batch A	Batch B	Batch C					
Monday	P.H.-I	H.A.P.-I	P.A.-I	R E C E S S P E R I O D		P.H.-I	H.A.P.-I	P.A.-I
Tuesday	P.A.-I	P.H.-I	H.A.P.-I			H.A.P.-I	P.A.-I	P.H.-I
Wednesday	H.A.P.-I	P.A.-I	P.H.-I			P.A.-I	P.H.-I	H.A.P.-I
Thursday	C.S.S.S	OFF	P.L.C			P.L.C	C.S.S.S	P.H.-I Tutorial
Friday	P.L.C	C.S.S.S	OFF			P.L.C	H.A.P.-I Tutorial	P.L.C Tutorial
Saturday	OFF	P.L.C	C.S.S.S			C.S.S.S	P.L.C	P.A.-I Tutorial

Academic Coordinator

Principal



Kisan Vidya Prasarak Sanstha's
Institute of Pharmaceutical Education, Boradi,
(B. Pharm.)
TIME TABLE (2021/2022)

CLASS: - First Y.B.Pharm

YEAR: - DEC 2021

SEMESTER- I (DIVISION-B)

Days	(Practical) 10.00 a.m. to 2.00 p.m.					(Theory) 2.30 pm to 3.30 pm	(Theory) 3.30 pm to 4.30 pm	(Theory) 4.30 pm to 5.30 Pm
	Batch D	Batch E						
Monday	P.L.C	OFF	R E C E S S P E R I O D			P.L.C	C.S.S.S	P.H.-I
Tuesday	OFF	C.S.S.S				P.L.C	H.A.P.-I	P.L.C
Wednesday	C.S.S.S	P.L.C				C.S.S.S	P.L.C	P.A.-I
Thursday	P.A.-I	H.A.P.-I				P.H.-I	H.A.P.-I	P.A.-I
Friday	H.A.P.-I	P.H.-I				H.A.P.-I	P.H.-I	P.A.-I
Saturday	P.H.-I	P.A.-I				P.A.-I	P.H.-I	H.A.P.-I

Academic Coordinator

Principal


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Institute of Pharmaceutical Education, Boradi



Kisan Vidyal Prasarak Samithi's
Institute of Pharmaceutical Education, Boradi
(B. Pharm.)
TIME TABLE (2021/2022)



CLASS: - Second Year B.Pharm
YEAR: - Sept-2021

SEMESTER- III(DIVISION-A)

Days	(Theory) 11.00 a.m. to 12.00 p.m.	(Theory) 12.00 p.m. to 1.00 p.m.	(Theory) 1.00 p.m. to 2.00 p.m.	2.00 pm to 2.30 pm	(Practical) 2.30 p.m. to 6.30 p.m.		
					Batch A	Batch B	Batch C
Monday	POC-II	MICRO	POC-II [Tutorial]	R E C E S S	MICRO	POC-II	OFF
Tuesday	MICRO	POC-II	MICRO [Tutorial]		OFF	MICRO	POC-II
Wednesday	POC-II	MICRO	OFF		POC-II	OFF	MICRO
Thursday	PH-ENG	P.P-I	PH-ENG [Tutorial]	P E R I O D	P.P-I	PH-ENG	OFF
Friday	P.P-I	PH-ENG	P.P-I [Tutorial]		OFF	P.P-I	PH-ENG
Saturday	PH-ENG	P.P-I	OFF		PH-ENG	OFF	P.P-I

Academic Coordinator

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Kisan Vidyal Prasarak Samithi's
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(B. Pharm.)
TIME TABLE (2021/2022)

CLASS: - Second Year B.Pharm
YEAR: - Sept-2021

SEMESTER- III (DIVISION-B)

Days	(Theory) 11.00 a.m. to 12.00 p.m.	(Theory) 12.00 p.m. to 1.00 p.m.	(Theory) 1.00 p.m. to 2.00 p.m.	2.00 pm to 2.30 pm	(Practical) 2.30 p.m. to 6.30 p.m.	
					Batch D	Batch E
Monday	PH-ENG	P.P-I	PH-ENG	R E C E S S	P.P-I	PH-ENG
Tuesday	P.P-I	PH-ENG	P.P-I		OFF	P.P-I
Wednesday	PH-ENG	P.P-I	OFF		PH-ENG	OFF
Thursday	POC-II	MICRO	POC-II [Tutorial]	P E R I O D	MICRO	POC-II
Friday	MICRO	POC-II	MICRO [Tutorial]		POC-II	OFF
Saturday	POC-II	MICRO	OFF			MICRO

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SOLVED UNIVERSITY QUESTION PAPER BY FACULTY

Q.No.		Q.No.		
				1

उत्तर लिखिए। Start writing answers from this page. Use only black ink.

Q.No. any Five

1. Define & classify General Anaesthetics.
General Anaesthesia is a state characterized by unconsciousness, analgesia, amnesia, skeletal muscle relaxation, and loss of reflexes.
Classification :-
There are mainly five classes.
i) Intravenous (IV) Anaesthetic.
ii) Inhalational Anaesthetic.
iii) (IV) Sedative
iv) Synthetic opioids
v) Neuromuscular blocking drug.

2. Give the uses of CNS Stimulants.
Uses of CNS Stimulant
i) CNS Stimulants also raise blood pressure and increase heart rate and breathing rate.
ii) They are used to treat depression, attention deficit hyperactivity disorder and Narcolepsy.



Q.No.

Q.No.

2

Q.No.

3. Classify anxiolytic drugs & ex.

• Benzodiazepines

Alprazolam (Xanax)

Bromazepam (Lectopam, Lectotan)

Chlordiazepoxide (Librium)

Chlondazepam (Klonopin, Rivotril)

Chlondazepam (Klonopin, Rivotril)

Diazepam (Valium)

Flurazepam (Dalmane)

Lorazepam (Ativan)

4. Give the drugs used in the treatment of parkinsonism.

The main types of drugs that are used to treat parkinson's are levodopa, dopamine agonists, Glutamate antagonist.

5. Define & classify Antipsychotic.

Definition:

Antipsychotic drugs don't cure psychosis but they can help to reduce and control many psychotic symptoms including delusions & from feeling threatened.



Q.No.

Q.No.

3

Q.No.

Classification

First Generation Antipsychotics

- Chlorpromazine
- Prochlorperazine
- Thioridazine

Second Generation Antipsychotics

- Aripiprazole
- Asenapine
- Clozapine
- Iloperidone
- Lurasidone
- Aclanzapine
- Quetiapine
- Risperidone
- Ziprasidone
- Paliperidone



Q.No.

Q.No.

4

Q.No.

Q-2. Any four.

e) Write a note on local anaesthetics.

Local anaesthetics (LAs) are drugs which upon topical application or local injection cause reversible loss of sensory perception, especially of pain in a restricted area of the body. They block generation and conduction of nerve impulse at all parts of the neurone where they come in contact, without causing any structural damage. Thus not only sensory but also motor impulses are interrupted when LA is applied to a mixed nerve control as well as.

Classification:

- Low potency, short-duration,

procaine

chlorprocaine

- Intermediate potency and duration

Lignocaine^s (lidoaine)

prilidocaine



Q.No.

Q.No.

5

I.No.

- High potency, long duration.

tetracaine (Amethocaine)

Bupivacaine

Ropivacaine

Dibucaine (Chincona)

MoA:

The LA blocks nerve conduction by decreasing the entry of Na^+ ions during upstroke of an action potential (AP). As the concentration of the LA is increased, the rate of rise of AP and maximum depolarization decreases, causing slowing to reach of the threshold potential and conduction block ensues.

Local Action:

The clinically used LAs have no minimal local irritant action & block sensory nerve endings, nerve trunk neuromuscular junction, ganglionic synapse and receptors (non-selectively).



Q.No.

Q.No.

6

Q.No.

ie. Structures which function through increases Na⁺ permeability. They also reduce release of acetylcholine from motor nerve endings. Injected around a mixed nerve they cause anaesthesia of skin paralysis of Voluntary of muscle supplied by the nerve.



Q.No.

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6

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Q.No.

Q.No.

7

Q.No.

Q. No. → write a note on levodopa.

→ Levodopa has a specific salutary effect in PD. efficacy exceeding that of any other drug used alone. It is inactive by itself but is immediate precursor of the transmitter DA. more than 95% peripheral tissues (mainly gut and liver). DA thus formed as in heart blood vessel other peripheral organs and in CTZ (though located in the brain i.e. floor of IV ventricle) is not bound by blood vessels other peripheral. About 1-2% of administered levodopa crosses the brain is taken up by the surviving dopaminergic neurones converted to DA which is stored and released as a transmitter. Brain of parkinson's patients treated with levodopa till death had DA levels higher than those not so treated. Further, those patients who has responded well had.