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B. Pharmacy (First Semester) Examination, Nov.-Dec. 2021

(PCI Scheme)

(Pharmacy Branch)

HUMAN ANATOMY and PHYSIOLOGY-I

(Theory : BP101T)

Time Allowed : Three hours

Maximum Marks : 75

Note : Question paper is of three parts i.e. (A), (B) and (C). Part A consists of 20 MCQs each of 1 mark. All questions are compulsory. Part B consists of 3 long answer questions of which attempt any two. Each of 10 marks. Part C consists of 9 short answer questions, attempt any seven questions. Each of 5 marks. Make a clear diagram wherever necessary.

Section-A

(Objective Type Questions)

(iv) Sodium-pertication pump is an example of 1

20×1=20

Note : Attempt all questions, each carries 1 mark.

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(i) The cell membrane is :	(b) Passive transport
(a) Solid	(c) Facilitated diffusion(d) Osmosis
 (b) Semi solid (c) Fluid (d) Gaseous 	(v) The total number of bones in adult human body is:
(ii) Protein synthesis takes place in :(a) Ribosome	 (a) 206 about (b) (b) 210 (c) 260
(b) Endoplasmic reticulum(c) Nucleus(d) Golgi complex	 (d) 236 (vi) The transformation of cartilage into bone is called :
(ii) Cell power house is ;(a) Mitochondria	(a) Osteoporosis(b) Haemopoesis
(a) INITOCIONARIA(b) Golgi apparatus(c) Lysosomes	 (c) Ossification (d) Haemolysis
(d) Endoplasmic reticulum(iv) Sodium-potassium pump is an example of :	 (vii) Patella is a bone found in : (a) Carpus (b) Ankle
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[2]

1. Multiple Choice Questions (MCQs) :

[3]

(a) Active transport'

			[14]		•
×	(c)	Knee	"angenthe article		
ж.	(d)	Tarsus	1000 11 50 - 12 × 24	1 (3)	
(viii)	The	vertebrae are	separated from eac	h other	by :
	(a)	Blood vesse			
dha	; (b) ;	Nerves	non o roch an lat	n où t	
		Cartilaginous			
	(d)	Muscle	$\sim i \xi \hat{i}^{+}$	1 (5.)	
(ix)	The	brain stem con	mprises of		
, ,	(a)	Medulla, Por	ns and midbrain		
	(b)	Thalamus, h	ypothalamus and	l (65 l pituit	tary
្លែ្	Rt ei S		ito in the second		(\mathcal{A})
	(c)	Tegmentum a	nd tectum	6 :	
	(d)	Medulla, pon	s and cerebellum	(Å)	
(x)	ANS	regulates the	activity of all exce	(5) pt :	
	(a)	Glands of GI	Hammöldus.		
	(b)	Sweat	unudi क्रम्स्ड ह लागा	Shel	
	(c)	Heart		(a)	
	(d)	Skeletal muscl	le signifi	(d)	Č
2		341	151(41)		

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	100		[5]	
(xi)	In n	ormal adult vo	lume of CSF is approx	imate
	(a)	250 ml	C. C. C. C. D.	t,
	(b)	350 ml	a to the start	, ,)
	(c)	150 ml	suide, print in Millio	: - :
st.		50 ml	коран (d) та т	19,
(xii)	Ins	pinal cord, gre	wmatter depicts in a	10.1
	(a)	Is surrounde	ed by white matter	r t
	(b)	Surroufids th	ne white matter	; .}
	(c)	Does not ex	istorn of hinder, it	ц. Í I
÷	(d)	Forms nerve	sonor human	(
(xiii)	Whi		Sphered Broce Lonicity ving is structural unit o	
	syst	em (al anato	ide of the following sta	
	(a)	Alveoli	Duratity gland	
	(b)	Nephron	Lacebrai gland	
	(c)	Neuron	hunder berngel T	143
		Leucocyte	 boefu sreads) 	

(xiv) Which of the following carry the impulses from the brain or spinal cord to the muscles

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[6]

(a)	Mixed	nerves					
-----	-------	--------	--	--	--	--	--

(b) Motor nerves

(c) Sensory nerves

(d) All of the above

(xv) Which of the following is divided into parasympathetic nervous system and sympathetic nervous system:

(a) Central Nervous System

(b) Peripheral Nervous System

(c) Autonomic Nervous System

(d) Spinal cord

(xvi) Which of the following glands are present in eyes :

- (a) Pituitary gland
- (b) Lacrimal gland
- (c) Thyroid gland
- (d) Mucus gland

(xvii) Which of the following layer of skin does not; contain blood vessels :

		C.		[7],			
	2	(a)·	Cutis	1	nheal	161	×
		(b)	Dermis		nogianh.)	(0)	
		(c)	Corium		Sortition	(4)	
	5-	(d)	Epidermis	5 -94 - 1943 5 -94 - 1943	2;	0	
46-	· · ·	·		·	s which of the		B
	a si	.(a)	TSH and C	H.	1 8°	4. N 1997	1
		(b)	TSH and L	$\mathbf{H}_{0,1,0,1}$	to and the	4	
	8 9 JL	(c) (f) (d) (c)	ADH and p output	fu India	1. / C :- 1	n nad	
	(xix)	Larg	est endocrin	e gland i	s: Fullions - al		7 8
		(a)			urati alla bil		
					wing him is		
		2.0	Adrenals				
	het i	(d)	Pancreas		n locarians. Nun	i smir in Linig	
× *	(xx)	Panc	reatic β-cel	l·secrete	soinnaí odi	21017 (4	ĭ
		(a)	Pepsin		,81		

[8]

(b)	Insulin	SULL Y	
(c)	Glucagon	Surn G	

(d) Somatostatin

Section-B

(Long Answer Type Questions) 2×10=20

Note : Attempt any two questions out of 3 questions. Each question carries 10 marks.

2. Define cell with well labelled diagram of different orgenells. Write the functions of cell and its compositions.

- 3. What are the various classifications of nervous system? Write in details about structure and functions of sympathetic and parasympathetic nervous system.
- 4. (a) Write the locations, structure and functions of Adrenal gland.
 - (b) Write the locations, structure and functions of pancreas.

Section-C

(Short Answer Type Questions) 7×5=35

Note : Attempt any seven questions out of nine questions. Each question carries 5 marks.

[9]

- 5. Discuss homeostasis and importance of negative and positive feedback mechanism.
- 6. Write a detail note on nervous tissue.
- 7. Write classification of joints and their functions.
- 8. Discuss about structure and functions of skin.
- 9. Write a detail note on neuromuscular junction.
- 10. Describe reflex activity with well labelled diagram.
- 11. Explain physiology of hearing with neat and clean diagram.
- 12. Write the functions of posterior pituitary hormones.

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13. What are cranial nerves? Write in details about their functions.

(Sibilit Answer Type Questions) — 7×

Sinte : Attempt and sevela sincations and of mus-

 Discuss homeoutes s and importance of negative and position foodback mechanism.

a Write a detail nute or nerveus rissue

. Write classification of joints and their functions,

Discuss abruit structure and functions of shin.

Write a detail note on neuromoscular junition.

Describe reflex activity with well labelled dingram.
 Describe reflex activity with well labelled and labelled in the solution of hearing with neur and labelled in the solution.

Write the functions of posterior pituitary fromones

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B. Pharmacy (First Semester) Examination, Nov.-Dec. 2021

(PCT Scheme) (PCT Scheme)

(Pharmacy Branch)

PHARMACEUTICAL ANALYSIS-L!)

Time Allowed : Three hours

Note : Question paper contains three Sections. Read the instructions of each section carefully.

> 30135 (d) Section-A 10305 Section-0 (d) 20×1=20

(Multiple Choice Questions)

Note Attempt all questions. Each question carries

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[3]		
theory '	il v	(0)
ion effect	ат 19 ⁴	(L)
heory and and same solution	i nor	117) 117)

(a) Arrhenius

(b) Common

(v)

(c) Bronsted t 31 301 D 11 11 11 11 11 ाक्य स्थित (मिंग्र) (d). None of these 3 K (3) Weakly acidic and weakly basic substances analyzed by which titration method: (0)(a) Aqueous titration (b) Non-aqueous titration (c) Redox titration los y subs go to didde : vel (d) Complexometric titration (4) Tolat (E) (vi) Which method is used in water analysis : (a) Fajan's method (b) Mohr's method (c) Volhard's method

reetled of analysis Potentiorretry is all ... (\mathbf{X}) (d) None of these MOC PROTECTION (1)

(vii) SI unit of conductance is : boitybut (J)

(a) mho (c) Electronate Vinual

(b) siemens

de Lone of Perc

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API stands for : 1. (i)

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(a) Active Pharmacy Interpretation

[2]

(b) Acute Pulmonary Interaction

(c) Active Pharmaceutical Ion

(d) Active Pharmaceutical Ingredient Vov. Dec. 2021

Which analytical techniques is used for determine (ii) the amount of oxidizing agents?

(a) Oxidation-reduction titration

(b) Bromometry

(c) Complexometry

(d) None of these

Random error is also known as (11) 1512 (a) Accidental error

(b) Indeterminate error

1-000 202 (c) Determinate error

(d) Both (a) and (b) and a standard

(iv). Which theory is able to explain acid base behaviour in non-aqueous solvents? 1 march

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1	r M	T
- 1	4	ч.

(c) volt

multi sumpliers, (n)

(d) None of these

(viii) Current used for measurement of conductance is :(a) A.C.

(b) D.C. and that a brack should be the state of the stat

(c) Any one of these

(d) None of these

สตรีของเมื่อสองกฎก-กอว่า (d)

(ix) Solubility of sparingly soluble salt can be determined by :

(a) Polarography

(b) Potentiometry have a bettern lotd W and

(c) Conductometry

(d) IR spectroscopy

(x) Potentiometry is an method of analysis.

(341152(41)

(a) Spectroscopic

(b) Analytical

(c) Electro-analytical

(d) None of these

(xi) Hydrogen electrode can be used as (a) Reference (b) Indicator (c) Both of above (d) None of these There is a linear relationship exist between pH (xii) and of the solution. (a) Colour (b) Potential (c) Turbidity forth "Which means mealed in unit-(d) None of these Residual current in polarography is due to : (XIII) (a) Oxidizable impurity is the contract of (b) Reducible impurity (c) Anlyte (d) All of these

[5]

(xiv) Diffusion current can be correlated with different conditions by :

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[6]

(a)	Nernst equation	fe uu		
(b)	Bragg's equation			
(c)	Illkovic's equation			

(d) Beer's equation

(xv) Antimoney electrode is an :

- (a) Indicator electrode
 - (b) Secondary reference electrode
 - (c) Reference electrode
 - (d) None of these
- (xvi) Which one is useful in non-aqueous solution :(a) Leveling solvent
 - (b) Differentiating solvent
 - (c) Both (a) and (b) many structure to the
 - (d) None a strange polyabel for
- (xvii) Which of the following is an example of adsorption indicator :
 - (a) Eosin and a state of the herein and the state of the
 - (b) Phenolphthalein

[7]

B = B + S (c) Methyl Red B = d = a = a

(d) Ninhydrine

(xviii) Oxidation involve : (a) Gain in oxygen

(b) Loss of oxygen

Chepaner (c) Both (a) and (b) a shirten muture k zense (

(d) None of the above

(xix) Lesser the pHin the acid nature. (a) Weaker

outera (b) Stronger: els priges or doit implementation outo

(c) Both (a) and (b)

- (d) None of these

Acid . Acid . Acid ann sann an sion an an an an Acid.

(b) Alkali

- 23/31419P
- (c) Water

(d) Salt solution

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[8]

Section-B 2×10=20

(Long Answer Types Questions)

Note : Attempt any two questions. Each question carries 10 marks.

2. Discuss about gravimetric analysis along with the principle and step involved in it.

3. Write a detail note on redox titration with principle and application of titration involving permangnametry.

4. Give detail note on Polarography its principle and instrumentation.

Section-C 7×5=35

(Short Answer Types Questions)

Note : Attempt any seven questions. Each question carries 5 marks.

5. Write about the sources of Error and its types.

[9]

6. Write a note on method of expressing concentration.

7. Write a note on acid base titration.

8. Explain various method involved in precipitation titration.

9. Write a note on masking and demasking agent,

10. Give principle and application of conductometric titration.

11. Write a note on primary and secondary electrode.

12. Write a estimation of sodium chloride by Mohr's method.

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13. Write a note on non-aqueous titration.

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B. Pharmacy (First Semester) Examination, Nov.-Dec. 2021

(PCI Scheme)

(Pharmacy Branch)

PHARMACEUTICS-I

THEORY (BP103T) Time Allowed : Three hours Maximum Marks : 75

Note : Question paper has three parts that is A, B and C. Part A has 20 MCQ's, each of 1 marks. All questions in part A are compulsory. Part B is long answer type questions. It contains 3 questions of which, attempts any two questions. Each question carries 10 marks. Part C is short answer type questions. It contains 9 questions, of which attempt any seven questions. Each question carries 5 marks.

Part-A

Note : Attempt all questions. Each question carry 1 mark.

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20×1=20

1. Multiple Choice Questions :

(i) The part of the prescription which contain the names and quantities of the prescribed ingredient

[2]

- (a) Superscription
- (b) Subscription
- (c) Inscription
- (d) Signatura

(ii) The dose of child, proportional to body weight is calculated by

(a) Young's formula

(b) Dilling's formula

(c) Clark's formula

(d) None of these

(a) Hone of these

and as second manufactured more which

(iii) The translation of Latin term "s.o.s." into English

- n is wate define for the desire of talketing
 - (a) As directed
- (b) Immediately
 - (c) After meal
 - (d) When required

[3]

(iv) When an unusually large dose of drug is required to elicit an effect, is called(a) Tolerance

(b) Idiosyncrasy

- (c) Tachyphylaxis
- (d) Synergism

- (v) The proof spirit, which is 100 proof contain
 - (a) 100% v/v alcoho1
 - (b) 50% v/v alcohol
 - (c) 57.1% v/v alcohol $\frac{1}{100}$ s $\frac{1}{100}$

(d) 95% v/v alcohol

- The subtrance much as have for proposition of
- (vi) The concentration of sodium chloride in isotonic
 - solution will be

 (a) 0.6%
 - (b) 0.5%
 - r a guilt

(d) 0.4%

(c)

0.9%

- ουματιστήσει τη μεταπολογιστή το σταταξή προτο
- (vii) The following combination of substance will form eutectic mixture
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[4]

(a) Ment	hol and Comphor
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(b) Menthol and Mannitol

(c) Menthol and Sugar

- (d) Menthol and zinc chloride
- (viii) The following is NOT a method for solubility enhancement
 - (a) Complexation
 - (b) Hydrotropy of the second (b)
 - (c) Cosolvency under a state of the optime
 - (d) Precipitation
- (ix) The substance used as base for preparation of throat paint is throat paint is
 - (a) Alcohol Solutive manufactor
 - (b) Water
 - (c) Glycerol
 - (d) Liquid paraffin
- (x) The simple syrup contain sucrose in concentration

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(a) 50% w/w

[.5] 66.7% w/w (b) 60% w/w (c)80% w/w (d) The follolwing substance is used as thickening agent (xi)for preparation of suspension Gum acacia (a) Tragacanth (b)within all in march with with Methyl cellulose (C) All of the above (d)The dye used for identification test of emulsion (xii) is Scarlet red (b) (a) Tartrazine (b) (c) Potassium permanganate (a) Error [s dost; (d) Phenolphthalein

(xiii) The theorem oil has melting point of

- (a) $5-10^{\circ}C$ and G and 100 M
 - (b) 10-15°C
- (c) 30-35°C

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		[6:]			
	(d)	50-70°C		îsta	
(xiv)	The r	method of preparat			- 11
	(a)	Rolling method			
	(b) ,	Fusion method	ادالوادهي سارت	91° - 101	
	(c)	Cold compression	method		
	(d)	All of the above	e Shoe MHD		
(xv)		n oil is mixed with wing incompatibility	C Designant Afrika Afrika N	1.	
•	(a)	Immiscibility		i•}	с. —
(IV)	(b)	Insolubility			
	(c)	Precipitation			
	(d) .	Liquefaction			·
			-many the		
(xvi)	The	therapeutic incomp	atibility occurs	due to	
	<u>(a)</u>	Error is dose			
	(b)	Contra indication			
	(c)	Durg interaction		un l'Atte	1
	(d)	All of the above	$[Y^{*}Q^{*}] = c$		
		1 0 1	2"21-01		

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(xvii) The example of absorption base used in ointment include

20		. [7]	
	(a)	Petrolatum ¹ . and all (2)	
	(b)	Wool fat	
	(c)	Hard paraffin	
	(d)	Polyethylene glycol	
(xviii) The :	following test is NOT performed for ointment	
	(a)	Release of medicament from base	
	(b)	Consistency of preparation	
		Irritation test	
	(d) :	Hardness and in beau horizon of the office	
(xix)	The	study of dose is called :	
v de i	(a)	Rheology 20121 al 2 caroline (20124)	4
801.31		Posology State and State	
	(c)		
C^{*}	(d)	None of the above	
(xx)	The	following substance is NOT used as gelling	
(-=-)	age		
	(a)	Tragacanth	3
	(b)	Sodium alginate	
		341153(41) F	T

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- [8]
- (c) Gelatin
- (d) Liquid paraffin
 - Part-B

10×2=20

- Note: Attempt any two questions Each question carries equal marks.
- 2. Define prescription. Explain various parts of prescription with example.
- 3. Describe excipient used in formulaion of liquid dosage form.
- 4. Discuss various techniques, used for solubility enhancement. Write two formulas used for calculation of pediatric dose.

Part-C 7×5=35

Note: Answer any seven questions. All questions carry equal marks.

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5. Write note on mouth wash.

[9]

- 6. Write difference between flocculated and deflocculated suspension.
- 7. Discuss stability problem of emulsion in details.
- 8. Write note on suppositoris bases.
- 9. Discuss physical incompatibility.
- 10. Explain method of preparation of suppositories.
- 11. Discuss various factors affecting dermal penetration of drug.

12. Describe types of ointment bases.

13. Write note on evaluation of semisolid dosage form.

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B. Pharmacy (First Semester) Examination, Nov.-Dec. 2021

(PCI Scheme)

(Specialization : Pharmaceutical Chemistry) (Pharmacy Branch)

PHARMACEUTICAL INORGANIC CHEMISTRY-Theory

> (BP104T) Time Allowed : Three hours Maximum Marks : 75

Note: Answer question no.1 which is compulsory from Group-'A'. Answer any two from Group-'B' and answer any seven from Group-'C'. The figures in the right hand margin indicated full marks of the questions.

Group-'A'

10×2=10-20

1. Give reasons for the followings :

(i) Conc. Nitric acid used in the limit test for chlorides.

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Potassim iodide is used in the preparation of Iodine solutions.

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- (iii) Ammonia is used in the limit test too Iron.
- (iv) The use of alcohol in the limit test for chloride in KMnO₄.
- (v) Polyhydric alcoholic are used in the assay of boric acid.
- (vi) What happens when E.D.T.A. solution is added to calcium Gluconate?
- (vii) The use of Potash Alum.
- (viii) Write the names of Desensitizing agents.
- (ix) What do you mean Lewis acid and Lewis base?
- (x) Write down the examples of radio isotopes and its use (atleast four).
- "In i-mono".

[3]

- Group-'B' 2×10=20
- Note : Answer any two questions. Each question caries 10 marks.
- 2. Describe with labelled diagram, principle and procedure of limit test of Arsonic.
- 3. What are the major electrolytes in the body? What are their usual concentration ranges in plasma? What is their role in the body?
- Briefly explain the principle of working of a G.M. Counter, its specific application and limitation.

Group-'C'

5×7=35

- Note : Answer any seven questions. Each question caries 7 marks.
- 5. Write a brief notes on source of Ionipurifies in pharmaceuticals.
- 6. How do calcium compounds find application in dentrifrices?

must been used used in the limit too for chievelow.

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- What are Antacids? Explain, with atleast two official compounds as examples.
- 8. Write short note on Expectorants.
- 9. Explain the term Astringent with suitable examples.
- **10.** What are antidotes? What is the mechanism of actioni of antidote in poisoning?
- 11. What is Emetics and write down the preparation and uses of copper sulphate?
- 12. Write down the preparation and uses of chlorinated line.
- 13. Write down the storage conditions, precautions pharmaceutical application of radioactive substances.

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Shri Shankaracharya College of Pharmaceutical Sciences
Junwani, Bhilai
B.Pharm I SemesterB.Pharm I SemesterEnd semester Non University Exam (2021-22)Sub.: Communication Skills(BP 105T)Subject Code: 341155 (41)Max. Marks : 35Time : 1.5 Hrs

Section A (Long Answer type questions)

Note: Attempt any one question

1. Define Communication. Illustrate communication cycle along with the sketch and explain the different elements that are involved in the process of communication

2. What is a Group Discussion? What are the important points to be remembered in a G.D along with the dos and dont's of a group discussion?

Section B (Short Answer type questions)

Note: Attempt any five questions. 05 marks each (5x5 = 25)

3. Name the different barriers to communication. Explain in detail.

4. Define Interview. Explain the different types of Interview. What are the preparations to be made by an interviewer?

5. What are the different types of listening. Explain. What are the advantages of listening?

- **6.** What are the different styles of Communication. Elaborate.
- 7. What are the points to be kept in mind while giving oral presentation before a large group?

8. Explain the different types of Interview. What preparations are to be made by an interviewee?

(1x10 = 10)