# **Sample Papers**

### Sample paper for Post Graduate Courses

The Entrance test will be of 1-hour duration, consisting of 80 questions of multiple choice carrying maximum 80 marks.

The test paper consist of 5 sections:

Section 1:	English & GK Compulsory for all students.
Section 2:	Physiotherapy: Compulsory for students appearing for MPT.
Section 3:	Pharmacy: Compulsory for students appearing for M Pharm.
Section 4:	Botany, Zoology & Chemistry: Compulsory for students appearing for M.Sc. Biochemistry,
	Microbiology & Biotechnology (B.Sc. with CBZ).
Section 5:	Chemistry: Compulsory for students appearing for M.Sc. Pharm. Chemistry.

### SECTION 1 – ENGLISH & GENERAL KNOWLEDGE

(Compulsory for all Streams)

<b>A.</b> 1.	Choose the right Exigent A. Urgent C. Happy	meanings for the given words. B. Risky D. Poor	C.	idioms should	in the following s not correct the err sponse (D) Signif	or, simply indicate
2.	Abominable A. Original C. Detestable	B. Preferable C. Predictable		7.	A. If I am you B. I would have C. that I won the D. No error	
3.	Collateral A. Guarantee C. Complimenta			8.	the many imp People of Ind	
В.		ave been given in Active/Passive vo expression from the given alternative ve voice.			them	hile I lived among erence for great men
4.	<ul><li>A. You will be a interview.</li><li>B. You are asked</li></ul>	u a lot of questions at the interview. asked a lot of questions at the ed a lot of questions at the interview ag asked a lot of questions at the		9.	<ul><li>D. No error</li><li>Flamboyant</li><li>A. Quiet</li><li>C. Disturbed</li></ul>	B. Excited C. Distressed
		eing asked a lot of questions at the		10.	Validate A. Disprove C. Ingenuine	B. Authenticate D. Legalise
5.	A. I don't like pe B. I don't like pe C. I don't like pe	le keeping me waiting. cople are kept me waiting. cople were kept me waiting. cople are being kept waiting. cople kept waiting.			c	
6.	The Uttarakhand A. Thirteen distr B. Fourteen distr C. Fifteen distric	ricts				

D. Twenty districts

**SECTION 2 – PHYSIOTHERAPY** (Compulsory for Masters in Physiotherapy)

1.	If triceps jerk is absent which root is suspected to be injured		6.	Child should be able to reach for an object with one hand at the age of		
	A. $C_3$	B. C <sub>6</sub>		A. 3 months	B. 6 months	
	C. C <sub>7</sub>	D. $T_1$		C. 9 months	D. 1 year	
2.	Clara cells are found in		7.	Maximum content of triglycerides are found		
	A. Trachea	B. Bronchioles		in		
	C. Alveoli	D. Oesophogus		A. HDL	B. LDL	
		1 0		C. Chylomicrons	D. VLDL	
3.	There are how	many interossii in human feet		2		
	A. 16	B. 14	8.	Find the ODD one out		
	C. 12	D. 8		A. Faradism under tension	on	
				B. De-lorme's method		
4.	Which of the fo	ollowing is incorrect		C. Pyromidal regieme		
	A. Thompson t			D. Longwave diathermy		
	B. Ober's test – TFL			<i>c i</i>		
	C. Sit and Read	ch test – Hamstrings	9.	Find the ODD one out		
	D. All of the ab	oove		A. TMJ joint	B. Knee joint	
				C. Elbow joint	D. Facet joint	
5.	Attachment to t	first rib is all expect		5	5	
	A. Scalenius anterior B. Scalenius posterior C. Scalenius medialis		10.	Capsular pattern was ori	ginally described by	
				A. Mennel	B. James Cyriax	
				C. G.D. Maittard	D. Mckerizie	
	D. Suprapleure	d membrane				
SECTION 3 – PHARMACY						
(Compulsory for Masters in Pharmacy)						

(Compulsory for Masters in Pharmacy)

1.	. The tetracycline causes ototoxicity		2.	The drug is selective $\beta 1$ receptor agonist		
	a) Chlortetracycline	b) Democlocycline		a) Isoprenaline	b) Adrenaline	
	c) Democlocycline	d) Minocycline		c) Salbutamol	d) Dobutamine	
3.	How many signals would be	e expected in NMR	4.	Wagner's test is used to detect the presence of		
	spectra of CH <sub>3</sub> CH <sub>2</sub> Br?			a)glycosides	b) alkaloid <b>s</b>	
	a) one b) two			c) carbohydrates	d) Terpenes	
	c) three d) four			•		
5.	Powdered digitalis is dried a	at atemperature of	6.	The precipitating power in	creases rapidly with the	
	a) Not exceeding $60^{\circ}$ C b) $65^{\circ}$ C			valence of ions, the statement is known as		
	c) 75°C	d) 100°C		a) Thumb rule	b) Joules Thomson rule	
				c) Schulze-Hardy rule	d) Hildebrand's law	
7.	The list of diseases that sho	uld not claim to cure are	8.	In sugar coating of tablets	seal coating is done	
	listed under			a) To prevent moisture ab	-	
	a) Sch Y	b) Sch G		b) to round the edges	I I	
	c) Sch J	d) Sch H		c) To smoothen the surface	e	
		, ,		d) to prevent from breakage	ge	
9.	The UV-Visible range in ele	ectro magnetic spectrum	10.	The biological half life of	first order kinetics is	
	is			a) 1/k	b) log k	
	a) 200-400nm	b) 400-800nm		c) 0.693/k	d) 2.303/k	
	c) 200-800nm	d) 300-600				

SECTION 4 – BOTANY, ZOOLOGY & CHEMISTRY (Compulsory for students Biochemistry, Microbiology & Biotechnology)

1.	Endoplasmic ret A. Proteolysis	iculum is mainly	6.	Which one of the positive	e following is Feulgen-
	B. Peptide bond	formation		A. RNA	B. DNA
	C. Cholesterol S	ynthesis		C. ADD	D. ATP
	D. Fatty acid syn	thesis			
			7.	Endoplasmic ret	iculum occurs in the form of
2.	Triticum aestivui	n is		A. Tubules	B. Lobules
	A. Diploid	B. Triploid		C. Cisternae	D. Resticles
	C. Tetraploid	D. Hexaploid			
	L.		8.	Radical Vascula	r bundles are found in
3.	Photochemical sm	og appears		A. Dicot stem	B. Monocot
	A. In the mid day			C. Roots	D. Only dicot
	C. In early mornin	÷			5
	ý	6 6	9.	Which one of the	e following is not a zymogen
4.	The term mutation	n was introduced by		A. Trypsinogen	6 , 6
	A. Morgan	B. Mendal		C. Amylase	D. Cryptotrysinogen
	C. De-Vries	D. Frobisher		5	
			10.	The sugar moiet	y in DNA is
5.	The grass vegetat	ion of Australia is called		A. Ribose	B. Desoxyribose
	A. Prairies	B. Pampus		C. Glucose	D. Mannose
	C. Steppes	D. Veldts			
	11				

## **SECTION 5 – CHEMISTRY**

(Compulsory for M.Sc. Pharm. Chemistry)

1.	In which of the following the central atom does not use sp3 hybrid orbitals in its bonding. A. $BeF_3$ B. $OH_3^+$ C. $NH_2$ D. $NF_3$	6.	Equal volume of $0.1 \text{ M AgNO}_3$ and $0.2 \text{M NaCl}$ Solutions are mixed. The concentration of NO3ion in the mixture will beA. $0.1 \text{ M}$ B. $0.05 \text{ M}$ C. $0.2 \text{ M}$ D. $0.15 \text{ M}$
2.	The maximum number of oxidation state shownby manganese is inA. $Mn^{2+}$ B. $MnO_2$ C. $MnO_4^{2-}$ D. $MnO_4^{-2-}$	7.	Which of the following solution will have pH close to 1.0? A. 100ml of M/10 HCL+100ml of M/10 NaOH B. 55ml of M/10 HCL + 45ml of M/10 NaOH
3.	The acid strength of alcohol decreasesA. $1^0 > 2^0 > 3^0$ B. $3^0 > 2^0 > 1^0$ C. $1^0 > 3^0 > 2^0$ D. $3^0 > 1^0 > 2^0$		C. 10ml of M/10 HCL + 90ml of M/10 NaOH D. 75ml of M/5 HCL + 25ml of M/5 NaOH
4.	When a mixture of chloroform and phenol refluxed with sodium hydroxide, slicylaldehyde formed. It is an example of - A. Kolbe's reaction	8.	The rate constant for first reaction, whose half   life is 480 Sec is   A. $1.44 * 10^{-3} \text{ Sec}^{-1}$ B. $1.44 \text{ Sec}^{-1}$ C. $0.72 * 10^{-3} \text{ Sec}^{-1}$ D. $2.88 * 10^{-3} \text{ Sec}^{-1}$
	<ul><li>B. Reimer – Tiemann reaction</li><li>C. Friedal craft reaction</li><li>D. Claisen condensation</li></ul>	9.	
5.	Which of the following does not undergo Cannizaro's reaction, when treated with aq. NaOH A. HCHOB. $CH_3CHO$ D. $(H_3C)_3C.CHO$ C. $C_6H_5CHO$ D. $(H_3C)_3C.CHO$	10.	Which of the following have the weakestintermolecular forces?A. AmmoniaB. HClC. ArD. H2O