Seat No: ______ Enrollment No: _____

PARUL UNIVERSITY

FACULTY OF PHARMACY

D. Pharm., October -2019 Examination

Year: 1	Date: 21/10/2019
lear: 1	Date: 21/10/201

Subject Code: 08600102 Time: 10:00am to 01:00pm

Subject Name: Pharmaceutical chemistry-I Total Marks: 80

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Instr	11C1	ทา	ns:

- 1. Figures to the right indicate maximum marks.
- 2. Make suitable assumptions wherever necessary.

Q.1	Multiple	Choice	Questions	(MCQs)	(1 Mark Each	ı)
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(20)

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1.	The category of calcium gluconate is			
	a) Antacid	b) Calcium replenisher		
	c) Urinary acidifier	d) Respiratory stimulant		
2.	Green vitriol is synonym of			
	a) Magnesium sulphate	b) Copper sulphate		
	c) Ferrous sulphate	d) Magnesium trisilicate		
3.	Bleaching powder is also known as			
	a) Ammonium chloride	b) Calcium chloride		
	c) Zinc sulphate	d) Chlorinated lime		
4.	Isotopes defined by			
	a) Same no. of proton, different no. of neutron	b) Same no. Of neutron, different no. of proton		
	c) Same no. of proton, same no. of neutron	d) All of the above		
5.	Impurities in pharmaceutical preparation possibly due to which source			
	a) Raw material	b) Manufacturing process		
	c) Chemical instability	d) All of the above		
6.	Carbon dioxide is used as			
	a) Inhalants	c) antimicrobials		
	b) Astringents	d) Protectives		
7.	Chemical formula of sodium nitrite is			
	a) NaOH	b) NaNO ₂		
	c) NaNO ₃	d) Na ₂ CO ₃		
8.	Nitrous oxide having molecular formula			
	a) N_2O_2	b) N ₂ O		
	c) N_3O	d) N_2O_3		
9.	Lugol's solution is composed of			
	a) Iodine	b) Iodine and potassium iodate		
	c) Iodine and potassium iodide	d) Iodine and alcohol		
10.	An alpha particle is			
	a) An electron	b) One neutron and one proton		
	c) Two neutrons and two protons	d) An X-ray emission		
11.	AgNO ₃ is used in the limit test of			
	a) Chloride	b) Sulphate		
	c) Arsenic	d) Iron		
12.	The formation of purple color in the limit test for Iron due to formation of which complex			
	a) Ferric thioglycolate	b) Ammonium citrate		
	c) None	d) Ferrous thioglycolate		
13.	Alum is used as			
	a) Astringents	b) Inhalants		
	c) Emetics	d) Expectorants		

14.	is used as respiratory stimulant		
	a) Sodium bisulphite	b) Aluminium phosphate	
	c) Ammonium carbonate	d) Ammonium chloride	
15.	First edition of the Indian pharmacopoeia was p	published in	
	a) 1966	b) 1989	
	c) 1955	d) 2000	
16.	Glycerin is added in the assay of		
	a) Copper sulphate	b) Boric acid	
	c) Dil. HCl	d) Potassium chloride	
17.	All of the following are Antimicrobial agents E	XCEPT	
	a) Talc	b) Hydrogen peroxide	
	c) Potassium permanganate	d) Povidone-iodine	
18.	The Epsom salt is		
	a) Magnesium Sulphate	b) Magnesium Oxide	
	c) Magnesium Hydroxide	d) Magnesium Trisilicate	
19.	Calamine is used as		
	a) Antidote	b) Protective	
	c) Respiratory stimulant	d) Astringent	
20.	is major extra cellular electrolyte in bod	ly.	
	a) Magnesium	b) Calcium	
	c) Potassium	d) Sodium	
	Long Answers (any 8 out of 10) (05 Mark Eac	ch)	(40)
1.	Discuss Oral Rehydration Salt.		
2.	Write a note on Gutzeit test.		
3. 4.	Define anti microbial agents. Discuss its mecha	anism of action.	
5.	Write a brief note on sodium thiosulphate.		
5. 6.	Write a note on saline cathartics.	de in Luief	
7.	What is Protectives?write about titanium dioxide Define following terms.(i) Expectorant (ii) Expectorant (iii) Expectorant (iii) Expectorant (iii) Expectorant (iiii) Expectorant (iiii) Expectorant (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		
,.	Antioxidant (II) Expectorant (II) Ex	metes (m) initiate (iv) ristingent (v)	
8.	Explain different types of radiations emitted by	y radioactive substances.	
9.	Write a short note on potassium iodide.		
10.	Define anticaries agent. Write down brief note	on sodium fluoride.	
Q.3	Short Answers (2 Mark Each){ Answer any 10	0}	(20)
1.	Justify: Glycerine is added in the assay of bori	c acid.	
2.	Distinguish between: Hypochlorhydria and Hy	perchlorhydria	
3.	Discuss Radio opaque contrast media.		
4.	Write ideal properties of antacid.		
5.	Enlist various tests for Cations & Anions as per	r IP.	
6.	Give uses of Hydrogen Peroxide.		
7.	Explain the term respiratory stimulant with exa	-	
8.	Enlist major intra and extra cellular electrolyte.		
9.	Explain bronsted acid base theory.		
10.	Discuss role of Thioglycolic acid in the limit te		
11	Enlist various sources of impurities in pharmac	euticals.	
12	Define buffer with example.		