Enrolment Number

Total No. of printed pages = 04

Winter, 2024

Girijanana a ury University Hatkhowapara Azara Ghy 17

D.Pharm 1st Year Examinations, May, 2024

PHARMACEUTICS-THEORY

Course Code: ER20-11T

Full Marks - 80

Time - Three hours

	The figure in the margin indicates fi	ull marks for the questions.	
	I. Objective type (Answer all 20)	20 x 1=20	
İ.,	The enteric coated tablets are disintegrated in the		
	a. Stomach		
	b.Intestine	Bina Chowdhury Central Library	
	c.Kidney	Girijananda Chewdhury University	
	d.Liver	Hatkhowapara, Azara, Ghy-17	
ii.	First edition of pharmacopoeia of India was published in		
	a. 1975		
	b. 1960		
	c. 1955		
	d. 1980		
iiî.	is known as the father of Pharmacy education in India.		
	a. Mahadeva Lal Schroff		
	b. Acharya P.C. Ray		
	c. Bishnupada Mukerjee		
	d. None of the above		
V.	Air tight containers are also called containers.		
	a. Light resistance	The second secon	
	b.Hermetic		
	c. Both a and b		
	d.None of the above		
٧.	Very fine powder should be passed through a	Sieve.	
	a.20		
	b.85		
	c.120		
	d.100		
i.	Ball mill works on the principle of		
	a) Impact		
	b) Attrition		
	c) Both a and b		

None of these d) proportional to the viscosity of the liquid. The rate of filtration is vii. a.Directly b.Inversely c. Both (a) & (b) d.None of above 450 mg of drug can be accumulated in capsule number. viii. b) 00 c) 000 d) force is used to separate solids from fluids in cyclone separator. IX. a) Centrifugal b) Centripetal Bina Chowdhury Central Library c) Gravitational Girijananda Chowdhury University d) None of the above Hatkhowapara, Azara, Ghy-17 Turbine mixer consists of circular disc X. a. Propeller b.Impeller c. Both a and b d.None of these Factors affecting the rate of filtration can be explained by XI. a. Darcy's Law b.Fick's law c. Henry's Law d.Boltzmann Constant Concentration of benzalkonium chloride in eye drop formulation is XII. a.0.1% b.0.01% c.0.002% d. None of the above. The efficiency of a ball mill is maximum at XIII. a.Low speed b.2/3rd of speed c. High speed d. Very high speed

-	is a process of extraction where drag	3 15 Rept III contact with mensuum 101 15
inut		
	a. Infusion	
	b. Maceration	
	c. Decoction d. Percolation	
	d. rerediation	
xv. FI	luidised bed dryer method is times faste	er than that of a tray dryer.
	a.10	The same of the same same same same same same same sam
	b.5	
	c.15	
	d.20	
VI. T	The disintegration time of uncoated compressed	tablet is
	a 5 minutes	
	Pina (VIII	Central Library
	Girijanang	vapara, Azara, Ghy-17
	d.1 hour	vapara, Azara, Ony
XVII.	Press coating is done in machine	
28.9.11.	a. Pan coating	
	b.Fluidised bed coating	
	c.Drycota rotary d.None of these	
20.1717		
(VIII.	The implants are useful in therapy.	
	a. Hormone	
	b.Gene *	
	c. Chemo	
	d.None of the above	
(IX. T	he majority of bacterial vaccines are stored at a	temperature between to
	a.2°C, 8 °C	
	b.4°C, 20 °C	
	c2°C, -10 °C	
	d10°C, -80 °C	
39		
XX. V	Which test is performed to detect the immunity	or susceptibility to tuberculosis?
	a. Mantous test	
	b.Tine test	
	c. Both (a) & (b)	
	d.None of above	
	2. Short Answer (Answer 10 out of 11) (V	Vithin 300 words) $10 \times 3 = 30$
	White days the decree of P. A.	6.1
	i. Write down the advantages and disad	vantages of plastic as packaging material.

- Discuss classification of powder as per IP. ii.
- Write about the various quality control tests of tablets. iii.
- any Jaiver ly Write about the identification tests of emulsion. Hatkhowapara, Azara, Ghy-17 iv.
- Differentiate between quality control and quality assurance. V.
- Define Percolation. Write the limitation of continuous hot percolation process. vi.
- Discuss in details about the applications of liposomal drug delivery system. vii:
- Write down the differences between flocculated and deflocculated suspension. viii.
- Write a note on sintered filter. ix.
- Mention the importance of preservatives in pharmaceutical preparation. Χ.
- Define 'size separation'. Write the principle and advantages of ball mill. xi.
- 3. Long Answer Questions (Answer 6 out of 7) (Within 500 words)

 $6 \times 5 = 30$

- Write the salient features of first edition of Indian pharmacopoeia.
- Discuss the principle, construction and working of cyclone separator with a neat ii. diagram.
- Write down the theory, construction and working of double cone blender. iii.
- Discuss about the types of suppository bases with suitable example. iv.
- Define microencapsulation. Write the advantages of coating of tablets. V.
- Explain the method of preparation of Policy accine. Library
- vii. Write short note on: (Any two) (2.5+2.5=5) Birijan and Showdhury University
 - i) Effervescent granules

Hatkhowapara, Azara, Ghy-17

- ii) Microencapsulation
- iii) Current good manufacturing practice (cGMP)