B.Pharm. PH.4.3

Registration No :										
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Total Number of Pages: 01

4th Semester Back Examination 2017-18 BASIC ENGINEERING - II (UNIT OPERATIONS - II) BRANCH : B.Pharma

		Time: 3 Hours Max Marks: 70 Q.CODE: C656 Answer Question No. 1 which is compulsory and any five from the re-	uct.								
Answer Question No.1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks. Answer all parts of a question at a place.											
Q1	a) b) c) d) e) f) g) h) i)	Answer the following questions: What is a crystallization and name crystal habit? Define centrifugation and name two centrifugal sedimenters. Define humidity and dew point. What is fire extinguisher and name its component. Brief your idea on Reynolds number and manometer. Define the term Nucleation. Define pump. Give two examples of pumps. Define conveyer and give two examples. Write advantages of steel as material of construction. Define corrosion. Give example of corrosion inhibitors.	(2 x 10)								
Q2	a) b)	Write principle, construction and working of Venturi meter for measurement of rate of flow of fluid. Derive an equation for pressure difference for differential manometer.	(5) (5)								
Q3	a) b)	Write a note on Psycrometric chart. Write applications of humidity in Pharmacy.	(5) (5)								
Q4	a) b)	Write the principle, construction and working applications of Screw conveyors. Discuss on advantages and disadvantages of Screw conveyors.	(5) (5)								
Q5	a) b)	Describe the Principle, construction and working of Krystal crystallizer. Describe solubility curve of crystallization.	(5) (5)								
Q6	a) b)	Briefly describe a note on various methods used for prevention and control of corrosion. Write a short note on glass as a material of construction.	(5) (5)								
Q7		Write principle, construction, working, applications, advantages and disadvantages of perforated Basket centrifuge.	(10)								
Q8	a) b) c) d)	Write short notes on any TWO: Industrial chemical hazards. Diaphragm valve. Industrial dermatitis. Vacuum Crystallizer.	(5 x 2)								