

Pramukh Swami Science & H D Patel Arts College, Kadi
Bachelor of Vocation
Pharmaceutical Chemistry Semester I
External Examination, December-2018
Pharmaceutical Calculations (PC-111)

Time: 2 hrs

Date

Maximum marks: 50

Q.1 Answer any 9 questions. Each question carries 1 mark (9*1=9Marks)

1. Density is symbolized by _____
(a) D (b) B (c) N (d) M
2. 1 cm = _____ mm
3. Define: - Normality.
4. Match the following

HNO ₃	Nitric Acid
	Nitrus Acid
	Sulphuric Acid
	Sulphur Acid
5. _____ gm weight required for prepare a 0.1 N NaOH Solution in 1 liter.
6. A solvent does not have molecular weight (True/False).
7. Match the following

ppm	parts per million
	parts per billion
	parts per mole
8. 0.015684 X 10⁻² in which Significant number is _____.
9. Graphical presentation of data is important. (True/False)
10. Alcohol can be denoted by.....
(a) -COOH (b) -CHO (c) -OH (d) -CONH₂.

Q. 2 Answer any 5 questions. Each question carries 4 marks (5*4=20 Marks)

1. Define the Variable? Explain its types.
2. 10 gm salt and 70gm water are mixed and solution is prepared. Find out conⁿ of solution by percent mass?
3. 750 ppm sodium hydroxide solution in water is present; how many % and how many normal the same solution is?
4. What is SI unit? 1 -kilometer, 1-hectometre, 1 dekameter & 1 -nanometer is equal to how many meters?
5. Explain Principal for adjustment of isotonicity.
6. What is graphical presentation gives its details by the types of different graphs.

Q.3 Answer any 3 questions. The question carries 07 marks (3*7=21 Marks)

1. What is isotonic solution? Give the name of calculation for isotonic solution and explain NaCl method.
2. What are IV solutions? Discuss it through appropriate examples.
3. What is a mixing dilution? How to calculate the Molarity of mixing solⁿ 1 contain 50ml of 0.15 M HCL and solⁿ 2 contain 120 ml of 0.05 M HCL?
4. Discuss atomic and molecular weight & find out the molecular weight of $K_2Cr_2O_7$.

Atomic Weights:

H-1, C-12, O-16, Na-23, S-32, Cl-35.5, K-39, Cr-52, Mn-55.