

**PARAMEDICAL BOARD BANGALORE**  
**Annual Examination, January-2013**  
**Common paper for all I year Certificate Courses**  
**CHEMISTRY**  
**(OLD & NEW SCHEME)**  
**QP CODE 1102**

**Time: 1 ½ hrs**

**Max. Marks: 45 (New Scheme)**

**40 (Old Scheme)**

**I. LONG ESSAY - ANSWER ANY ONE**

**1 x 10 = 10**

- 1) How is nitric acid manufactured by ostwald's process. Mention its uses.
- 2) Explain the manufacture of rectified spirit from molasses.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25(NS)**

**5 x 4 = 20(OS)**

- 3) Double helical structure of DNA.
- 4) Properties of alpha, beta, gamma rays.
- 5) Applications of colloids in medicine and food.
- 6) Properties and uses of ethyl alcohol.
- 7) Buffer solution.
- 8) Properties and uses of sodium hydroxide.
- 9) Organic and inorganic.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Alum.
- 11) Formalin.
- 12) Name two indicators.
- 13) What is an oxidizing agent? Give example.
- 14) What is half period?

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