

The H. N. S. B. Ltd. Science College, Himatnagar Roll No. \_\_\_\_\_

Internal Examination October - 2016

B.Sc. Sem.-3

Subject: Botany

Date: 06/10/2016

Marks: 40

Paper CC-BOT 212

Time: 1½ hrs

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Instructions: 1. All questions are compulsory  
2. Draw a labeled diagram in if necessary

**Q-1(A) Describe in detail (Any One) [06]**

1. Describe : Structure and role of water in plant life
2. What is Osmosis? Describe types of Osmosis

**(B) Write short note (Any One) [04]**

1. Explain: Inhabitation and its importance
2. Explain: Colloidal System

**Q-2(A) Describe in detail (Any One) [06]**

1. Mention the morphological and anatomical feature of Mesophytes
2. What is life form? Explain the life form given by "Raunkiar"

**(B) Write short note (Any One) [04]**

1. Internal adaptation of Hydrill stem
2. Vitality

**Q-3(A) Describe in detail (Any One) [06]**

1. Polygenic Inheritance of kernel colour in wheat
2. Explain: Coupling and Repulsion Hypothesis

**(B) Write short note (Any One) [04]**

1. Blood group in Human
2. Complete Linkage

**Q: 4 Give the proper answer of following questions**

[10]

1. \_\_\_\_\_ factors cannot effect in plasmolysis reaction  
(A) Concentration (B) Pressure  
(C) Geometric force (D) Humidity
2. Give definition : Diffussion
3. 5 ml formation dissolve in 95 ml water than the solution known as \_\_\_\_\_  
(A) 5% Formalin (B) 5M Formalin  
(C) 5N Formalin (D) 5 PPM Formalin
4. Nerium is \_\_\_\_\_ community plant  
(A) Hygrophyte (B) Xerophyte  
(C) Mesophyte (D) Helophyte
5. Who describe plant community as a temporary incident in india ?  
(A)Mishra (B) Hanson (C) Pandey (D) Puri
6. Explain the term: Abundance
7. How many linkage groups are present in drosophila  
(A) 4 (B) 10 (C) 23 (D) 46
8. \_\_\_\_\_ Antibody is present in blood of Human who has "O" blood group.
9. Clean water density at  $10^0$  c is \_\_\_\_\_  
(A) 998 gm/desimeter<sup>3</sup> (B) 908 gm/desimeter<sup>3</sup>  
(C) 990 gm/desimeter<sup>3</sup> (D) 950 gm/desimeter<sup>3</sup>
10. Give only types of crossing over?