

VPM's B. N. Bandodkar College of Science Thane  
Human Sciences F.Y.B.Sc; Course- USHSC102  
Semester I (ATKT)- 2018-19

Duration: 2.5 hrs

Total Marks: 75

N.B:1. All questions are compulsory.

2. Figures to the right indicate marks.

3. Draw neat and labeled diagrams wherever necessary.

- Q.1) (A) Salient features of Bryophyta with two examples. (7)  
OR  
(A) Gametophyte and Sporophyte of Pteridophyte. (7)  
(B) Characteristics features of Phaeophyceae and Rhodophyceae. (8)  
OR  
(B) Organization of plant parts and heteromorphic alternation of generation in Bryophytes. (8)  
(C) Attempt any ONE of the following: (5)  
(i) Enlist the characters of Pteridophytas.  
(ii) Distinguish between Gymnosperm and Angiosperm
- Q.2) (A) Enlist the characteristics of Phylum Arthropoda. (7)  
OR  
(A) Enlist the characteristics of Phylum Protozoa. (7)  
(B) Explain the characteristics of Phylum Porifera. Add a note on its Classes. (8)  
OR  
(B) Explain the characteristics of Class Mammalia & Class Reptilia. (8)  
(C) Attempt any ONE of the following: (5)  
(i) Distinguish between Osteichthyes & Chondrichthyes.  
(ii) Define Symmetry & its types with example.
- Q.3) (A) Explain Pyramid of biomass. (7)  
OR  
(A) Flow of energy in an Ecosystem. (7)  
(B) Describe Desert Ecosystem (8)  
OR  
(B) Enlist the characters of Marine Ecosystem. (8)  
(C) Attempt any ONE of the following: (5)  
(i) Write a note on fresh water ecosystem.  
(ii) Define Evergreen forest.
- Q.4) Attempt Any THREE of the following: (15)  
(i) Define different whorls that form a flower.  
(ii) Write a note on Reproduction in algae.  
(iii) Describe classes of Phylum Annelida.  
(iv) Write a note on Class Aves  
(v) Define food chain.  
(vi) Enlist the character of Coniferous and Thorn forest.