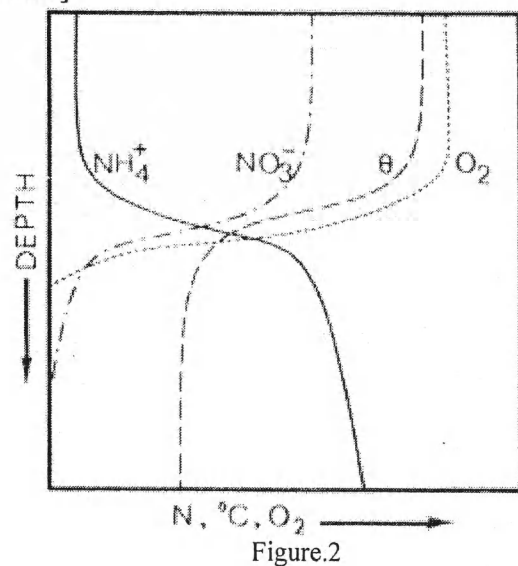
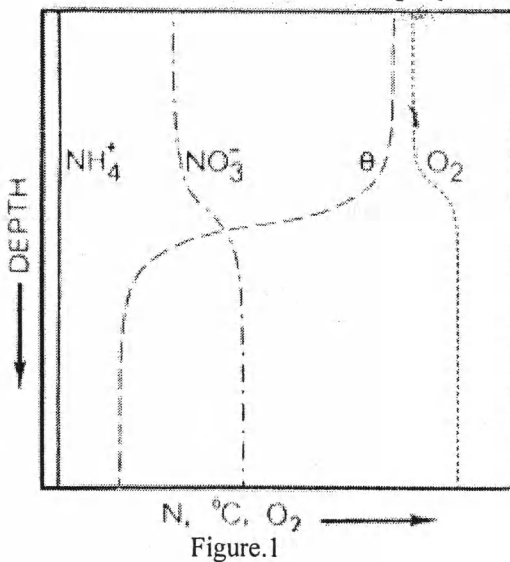


10. Excessive Sulphate loading in aquatic ecosystems result into
 eutrophication of water bodies sedimentation in water bodies
 stratification of water bodies acidification of water bodies
11. Barophilic taxa are adapted to
 current pressure temperature salinity
12. Stone flies belong to order
 Trichoptera Plecoptera Ephemeroptera Diptera
13. Which of the following statement is incorrect about phytoplanktons?
 They are aquatic heterotrophs. They move along with the water currents.
 They are aquatic autotrophs. They are plant planktons.
14. Headwater zones are characterized by
 Low temperature and low velocity
 low temperature and high velocity
 High temperature and low velocity
 High temperature and high velocity
15. Krills represent
 Nektons Periphytons Zooplanktons Phytoplanktons

SECTION "B"

[5Q. x 0.5= 2.5 marks]



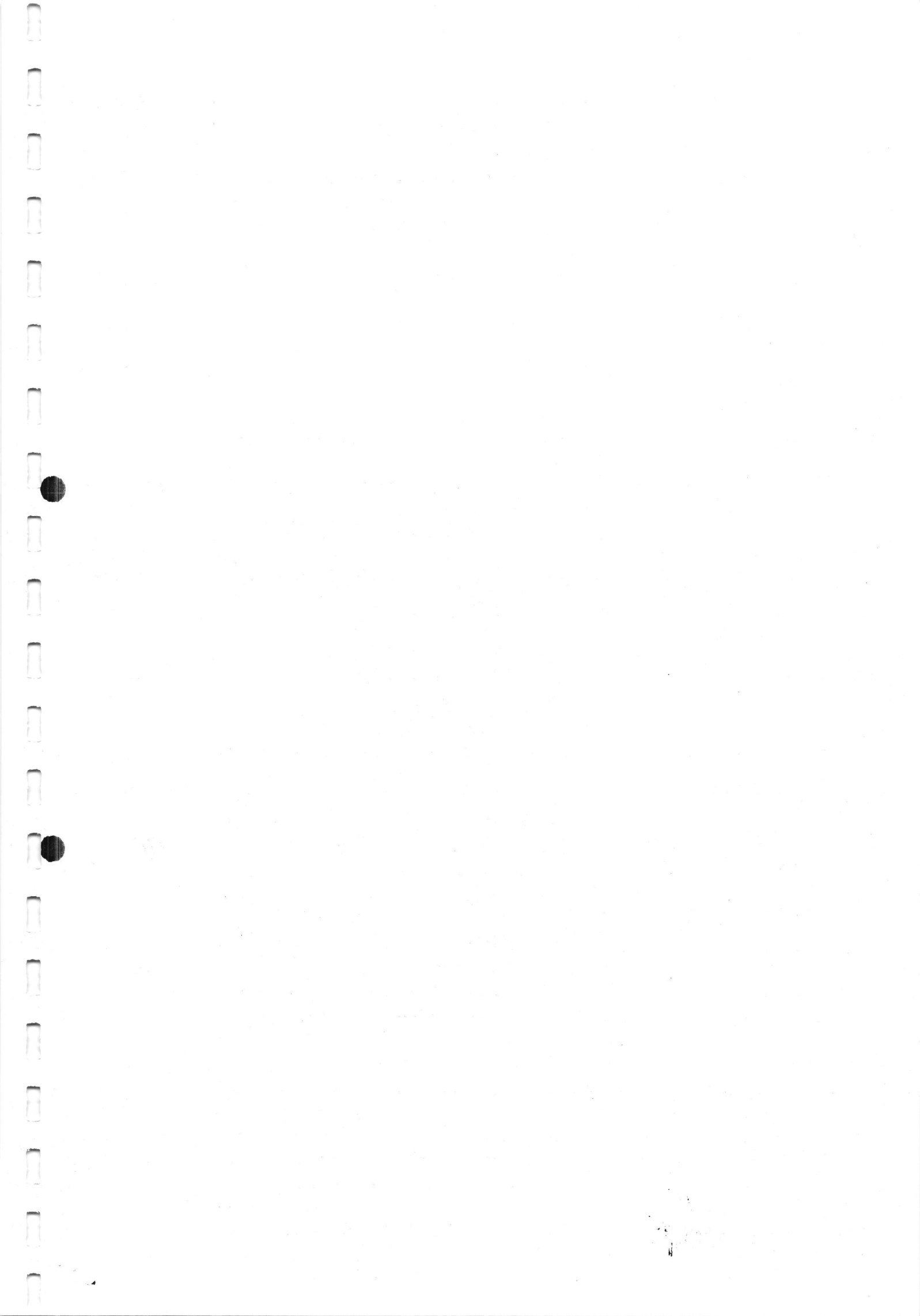
- The symbol θ represents _____.
- The NH_4^+ in Figure. 2 shows
 Orthograde profile Clinograde profile
- The O_2 in Figure. 2 shows
 Orthograde profile Clinograde profile
- Figure. 1 is typical of
 Eutrophic lake Oligotrophic lake
- Figure. 2 is typical of
 Eutrophic lake Oligotrophic lake

SECTION "C"
[10 marks]

JUN 18 2018

Fill in the blanks:

1. Algal blooms are formed by _____.
2. Epilithic algae are found on _____.
3. The column of water in the open ocean is referred to as _____.
4. Stream order classification was proposed by _____.
5. The deepest freshwater lake in the world is _____.
6. The most common form of iron in natural waters is _____.
7. Organisms adapted to a narrow range in salinity changes are called _____.
8. Two most common proxy data used in Palaeolimnological studies are _____ and _____.
9. The ratio of the length of the shoreline to the circumference of a circle of area equal to that of the lake is called _____.
10. The macrophyte commonly seen in lake Phewa is _____.
11. The phenomenon of bio-chemical emission of light in deep waters is called _____.
12. Bottom dwelling organisms are also referred to as _____.
13. Insect Families end with suffix _____.
14. Bioassessment with the application of BMWP is based on _____.
15. The full form of DMSO is _____.
16. The deepest part of a lake is designated as _____.
17. Lake cluster of Pokhara valley were designated as the Ramsar sites in the year _____.
18. Hydrothermal vents are characteristics of _____.
19. Streams or rivers that flow into a larger river is known as a _____.



KATHMANDU UNIVERSITY
End Semester Examination [C]
June, 2018

JUN 18 2018
Course : ENVS 415
Semester: I
F.M. : 55

Level : B.Sc.
Year : IV
Time : 2 hrs. 30 mins.

SECTION "D"
[3 Q. × 7 = 21 marks]

Answer Any *THREE* of the following:

1. Give an account of the different types of lakes based on the concentration of the nutrients. Add a note on the impacts of eutrophication on lake biota.
2. Describe the ecological importance of macrophytes citing appropriate examples.
3. Describe the importance of flood pulse concept.
4. Give an account of the different reservoir zonation.

SECTION "E"

5. Write short notes on (any *FOUR*) [4Q.×2=8]
 - a. Lotic ecosystems
 - b. Nektons
 - c. P cycle
 - d. Dystrophic lakes
 - e. BOD
6. Differentiate between (any *FOUR*) [4Q.×2=8]
 - a. Zooplanktons and phytoplanktons
 - b. RCC and SDC
 - c. Nitrogen fixation and ammonification
 - d. Euphotic and Aphotic zones
 - e. Estuary and delta
7. Give an account of (any *THREE*) [3Q.×4=12]
 - a. Lake acidification
 - b. Headwaters
 - c. Macroinvertebrate functional feeding groups
 - d. Summer kill
8. Give reasons for the following statements: [4Q.1.5=6]
 - a. Riffles are rich in dissolved oxygen.
 - b. Photosynthesis does not occur in deep lake bottoms.
 - c. High mountain lakes are naturally fishless.
 - d. Mangroves are found in tropical areas.

