

Science College

Biology Department

Lecture one \ Zoology

الأستاذ الدكتور خيري عبدالله داود

Zoology : Zoo = animal \ Logos = Science

Biology : Bios = life \ Logos = Science

Life : All living processes done by living organisms
like movement , respiration , ingestion of food ,
.....

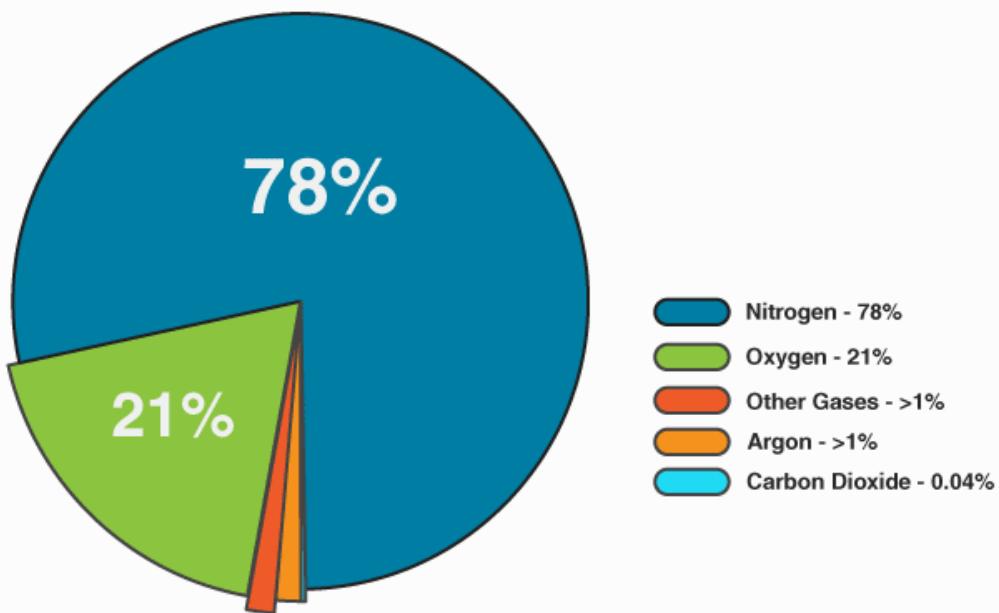
Basic elements of life (CHNOPS) \ Carbon , Hydrogen ,
Nitrogen , Oxygen , Phosphor and Sulfur , 98% of living
substances are composed these materials such as Proteins
, carbohydrates , Lipids .

Gases compose air 78 % Nitrogen , 21% Oxygen , 1 %
Argon \ 0.04 % CO₂ , 0.5 % water vapour , Helium

Human can live 3 minutes without air , 3 days without water , three weeks without food .

COMPOSITION OF INHALED AIR

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Air , water and Food , fundamental requirements for all living activities .

Animal Kingdom Divided to :

Invertebrates Phyla

9 Phyla :

1 – Protozoa phylum

2 – Arthropoda Phylum

3 – Cnidaria phylum

4 - Mollusca Phylum

5 – Echinodermata

6 – Annelida

7 – Sponge

8 – Platyhelminthes

9 – Nemathelminthes

Vertebrates Phyla

One Phylum called Chordata

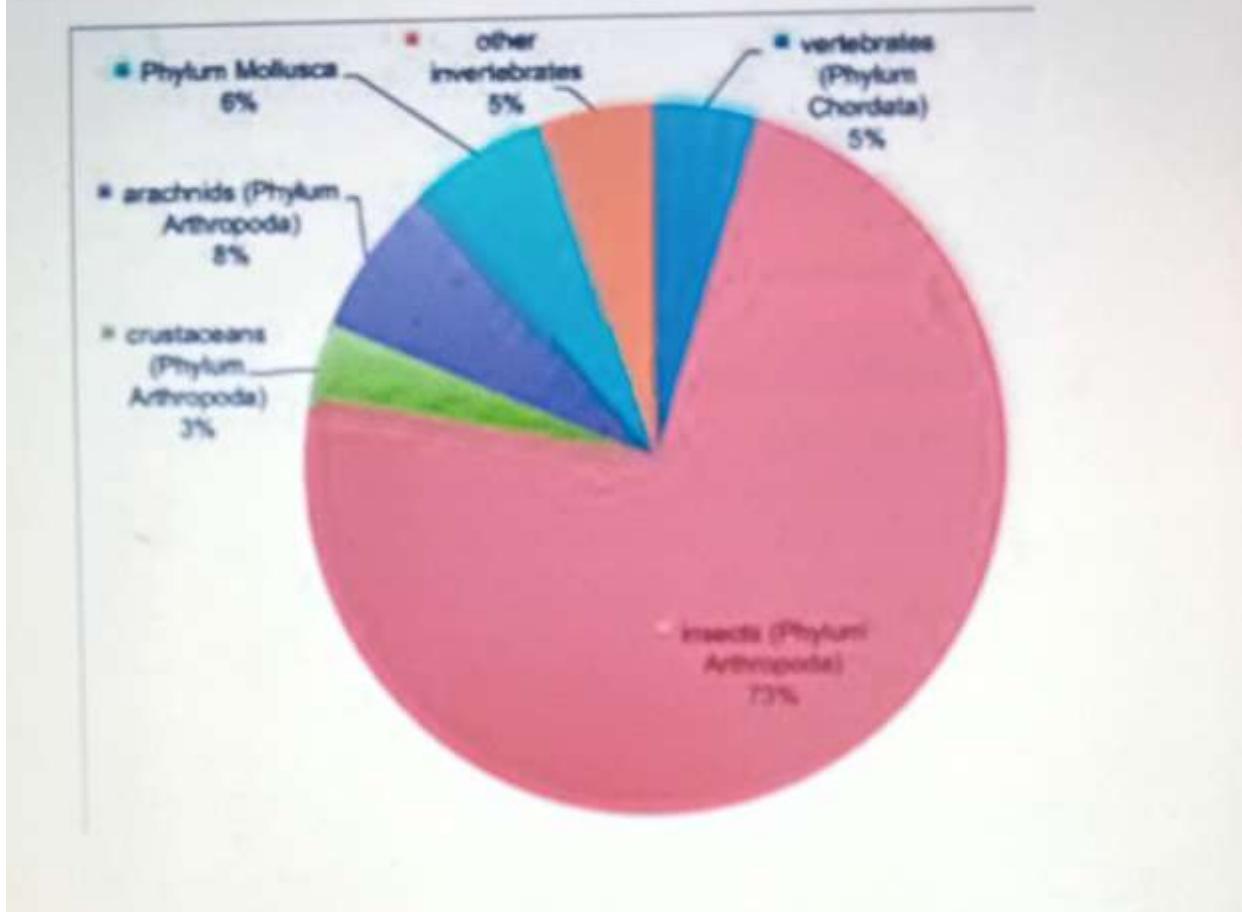
This Phylum have Five Classes

1- Mammals 2 – Fishes

3 – Birds 4 – Reptiles

5 - Amphibians

Department of biology



Arthropoda Phylum compose :

Insects = 72% Arachnida = 8% Crustacea = 2% (82 %)

Mollusca phylum = 6 %

Invertebrates = 95 % Vertebrates = 5 %

Organs of Human and Animals

Brain	Liver	Kidney	Stomach
Spleen	Uterus	Ovary	
Oviduct	Lymph node		Tonsils
Testis	Large Intestine		
Small Intestine	Lunges		Trachea
Heart	Blood Vessels		Artery
Vein	Capillaries		Skin
Head	Chest		Abdomen
Upper Limbs		Lower Limbs	

Example questions \ Chose Correct Answer

1 - Air contain the following gases Except one ?

A – Nitrogen B – Oxygen C- CO₂ D – Hilum E- Flore

2 – One of the following not invertebrates phylum ?

1 – Protozoa 2- Mollusca 3 – Reptiles 4 – Sponge

5 - Echinodermata

