**The National Orthodox School / Shmaisani**

**Subject: Biology Worksheet Classification and using keys**

**Name:**

**Date:** **Grade9 IB**

**1.** What is a recognition feature for both of the plant phyla indicated?

![](data:image/png;base64;base64,)

**2.** The plant in the diagram has vascular tissue and reproduces by spores.

![](data:image/png;base64;base64,)

To which phylum does the plant belong?

A. Bryophyta

B. Filicinophyta

C. Coniferophyta

D. Angiospermophyta

**3.** The diagram shows features of three plant phyla.

![](data:image/png;base64;base64,)

Which phyla are represented by R, S and T?

![](data:image/png;base64;base64,)

**4.** The image shows the northern sea nettle (*Chrysaora melanaster*).

![](data:image/png;base64;base64,)

To which phylum does *C. melanaster* belong?

A. Porifera

B. Cnidaria

C. Platyhelmintha

D. Annelida

**5.** To which phylum does the earthworm *Lumbricus rubellus* belong?

![](data:image/png;base64;base64,)

A. Annelida

B. Cnidaria

C. Platyhelmintha

D. Arthropoda

**6.** A locust is an arthropod. For invertebrate groups, which recognition feature is found only in arthropods?

A. Bilateral symmetry

B. Jointed appendages

C. Wings

D. Segmented body

**7.** A dichotomous key can be used to distinguish four types of plant. Which of the plants could be a bryophyte?

![](data:image/png;base64;base64,)

**8.** The images show a structure found on members of a phylum of green plants.

![](data:image/png;base64;base64,)

What is the name of the phylum to which the organisms belong?

A. Coniferophyta

B. Angiospermophyta

C. Filicinophyta

D. Bryophyta

**9.** An animal has the following characteristics: bilateral symmetry, mouth but no anus, ribbon shape. Which phylum does the animal belong to?

A. Mollusca

B. Cnidaria

C. Annelida

D. Platyhelmintha

**10.** Which organism is a member of the filicinophyta? (*Note that these are not to scale*)

![](data:image/png;base64;base64,)

**11.** The image shows an organism belonging to the Kingdom Animalia.![](data:image/png;base64;base64,)What feature does this organism have in common with all members of the phylum chordata?

A. Legs and wings

B. Mouth but no anus

C. Bilateral symmetry

D. Chitinous exoskeleton

**12.** Which phyla have bilateral symmetry?

A. annelida, arthropoda, platyhelmintha

B. porifera, arthropoda, platyhelmintha

C. cnidaria, porifera, mollusca

D. porifera, annelida, mollusca

**13.**Which is the hierarchy of taxa in order of decreasing numbers of species?

A. domain, phylum, order, family

B. phylum, order, family, class

C. domain, phylum, order, class

D. phylum, class, family, order

**14.**Which is the hierarchy of taxa in order of increasing numbers of species?

A. genus, family, order, class

B. class, order, genus, family

C. genus, family, class, order

D. class, order, family, genus

**15.** Which phylum shows radial symmetry?

A. Annelida

B. Cnidaria

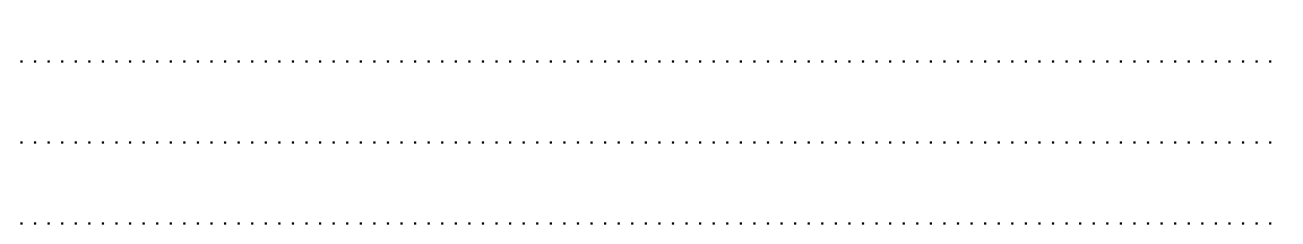
C. Platyhelmintha

D. Porifera

**16a.** The diagram shows a leaf from Dryopteris arguta.

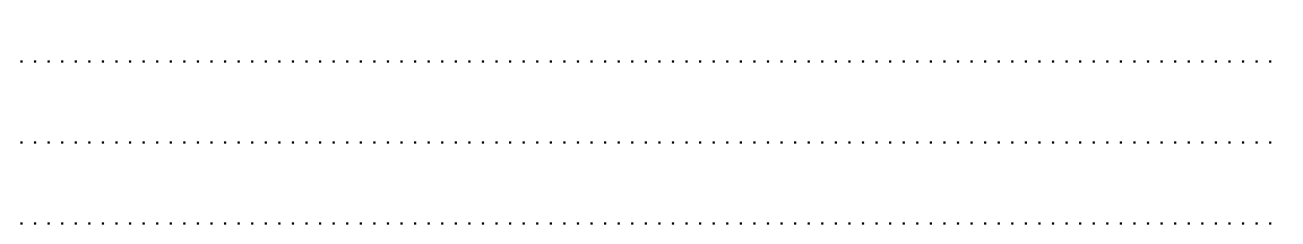
![](data:image/png;base64;base64,)

State the phylum of this plant.



**16b.** *[2 marks]*

State **two** characteristics of plants from the phylum you stated in (a)(i).



**17.** *[1 mark]*

![](data:image/png;base64;base64,)The scientific name of the Wakatobi flowerpecker is *Dicaeum kuehni*.

Which species is most closely related?

A. *Amerila kuehni*  
B. Wakatobi white-eye  
C. *Kuehneon duchyense*  
D. *Dicaeum celebicum*

