

**Unit 5 Zoology Study Guide**

1. How many species, roughly, are there in phylum Mollusca? ~100,000
2. What are the two main regions of a mollusk body? head-foot + visceral mass
3. Which part of a Mollusk secretes the shell? mantle
4. What is the function of the radula? scraping
5. snails, Gastropods are snails, slugs, and nudibranchs.
6. What is the term for the 180 degree twisting that occurs in snails? torsion
7. What is the name of the part of a mollusk that seals the gastropod shell? operculum
8. clams, bivalves, and muscles are members of the class Bivalvia.
9. The most complex Mollusks belong to class Cephalopoda.
10. How do cephalopods locate prey? eyes
11. Vertebrate eyes and cephalopod eyes are very similar. This is an example of convergent evolution.
12. Chromatophores are pigment cells of cephalopods.
13. Scaphopoda are the tooth shells.
14. Mollusks have a wide variety of body forms and fill many different niches. This is an example of adaptive radiation.
15. adductor muscles close the bivalve shell. (from clam lab)
16. Monoplacophora is a mollusk class that was only known as fossils until 1951.

**Other Things to Know:**

- The scientific name of the Eastern Oyster: *Crassostrea virginica*
- The scientific name of the Northern Quahog: *Mercaenaria mercenaria*
- The location of the mantle, siphon, foot, and shell of a bivalve
- The function of a radula: scraping
- The structure that a radula is modified into in cephalopods: beak
- The class snails, bivalves, nudibranchs, slugs, and clams belong to Mollusca
- The location of an operculum on gastropods: "trap door"
- The number of shells (one, two, or none) and class of the following: nudibranch, clam, nudibranch, slug, snail, shell, and squid.
 

nudibranch	clam	nudibranch	slug	snail
1	2	1	2	2



oyster, clams = bivalves  
 octopus, nudibranch = cephalopods  
 nudibranch, slug = gastropods

# Zoology Study Guides And Answer

**Barbara Janson Cohen, Memmler**



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web the p t squib rh circuit consists of the airbag sensor assy center and seat belt pretensioner rh it causes the srs to deploy when the srs deployment conditions are satisfied dtc b0130 63 is recorded when a short is detected in the p t squib rh circuit wiring diagram circuit description

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longitudinal and shear reinforcement is calculated geotechnical engineering

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web the pad foundations are shallow foundation that take and spread point loads to the soil safely the pad foundation are preferred if the soil at the site have sufficient strength and is not too deep to construct the thickness of pad foundations are generally uniform

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web 6 8 structural design of foundations 6 6 9 preparation of the subsoil 2 section 6 of en 1997 1 applies to pad strip and raft foundations and some the worked examples in this chapter consider the design of a pad footing on dry sand example 10 1 the same footing but eccentrically loaded example 10 2 a strip footing on clay

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web this technical guidance note covers the design of concrete pad foundations both mass and reinforced concrete forms it will not however discuss how the bearing capacity of the soil is determined as that is explained in technical guidance note

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web oct 27 2022 design of biaxial eccentrically loaded pad footing structville a biaxial eccentrically loaded pad footing occurs when the column transmitting load to the foundation is subjected to compressive axial force and bending

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web design of pad footing cracking detailing requirements all reinforcements should extend the full length of the footing if 1 5 3 at least two thirds of the reinforcement parallel to  $l_y$  should be concentrated in a band width  $3c_x$  centred at column where  $l_x$   $l_y$  and  $c_x$   $c_y$  are the footing and column dimension in  $x$  and  $y$  directions

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web design examples 5 and 6 in chapter 11 figures h 2 h 3 and h 4 preliminary estimation of effective depth required for reinforced pad bases in bending these design charts give a preliminary estimate of the effective depth required of a pad foundation in bending beam shear and punching shear respectively given the

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web pad foundations are a form of spread foundation formed by rectangular square or sometimes circular concrete pads that support localised single point loads such as structural columns groups of columns or framed structures

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web may 1 2021 pad foundation design example using prescriptive method the structural pad foundation is to be designed against a permanent load of 1200 kn and imposed load of 550 kn there is a moment of 250 knm permanent and 200 knm imposed the column size is 450 x 450mm fck 40 n mm 2