

CBSE Class 8 Science NCERT Exemplar Solutions CHAPTER 9

Reproduction in Animals

SHORT ANSWER QUE	ESTIONS	
16. Fill up the blanks	with the terms given below:	
body, asexual, binary	y, single, nucleus.	
	celled organism. It reproduces by ion begins by the division of its	
by the division of its	into two. This type of rep	roduction is called
fission.		
Ans. Single, asexual, n	ucleus, body, binary	
17. The term metamo	orphosis is not used while describing	g human development. Why?
Ans. In human beings	, body parts of an adult are present fro	om the time of birth itself.
Whereas, in metamorp	phosis, the body parts of the adult are	different from those present at
the time of birth.		
18. Mother gives birtl possible?	h to a baby but the baby has charact	ers of both parents. How is this
Ans. Although mother	gives birth to a child, fertilisation inv	olves two opposite gametes, one
from the mother and t	he other from father. The zygote, ther	efore has both father and
mother's contribution	(genes). Since the zygote develops into	the baby it has characters of
both the parents.		
19. How is reproducti	ion in <i>Hydra</i> different from that in A	Amoeba?

Ans. Hydra reproduces by budding where an outgrowth arises from the parent and develops



into a new individual. *Amoeba* reproduces by binary fission in which the division of nucleus is followed by division of the cell resulting into two individuals.

- 20. State whether the following statements are True or False. If false, correct the statement:
- (a) External fertilisation can occur both in water and on land.
- (b) The eggs of fish are covered by hard shells for protection.
- (c) Human egg has a head, middle piece and tail.
- (d) In adult human female, a single mature egg is released into an oviduct every month.
- Ans. (a) F; External fertilisation occurs only in water.
- (b) F; The eggs of fish are covered by a jelly-like layer for protection.
- (c) F; Human sperm has a head, middle piece and tail.
- (d) T

21. Why only male gametes have a tail?

Ans. Because they are motile and reaches the non-motile female gamete by movement with the help of tail.

22. What does Fig. 9.1 represent?



Fig. 9.1

Ans. The figure shows an *Amoeba* undergoing binary fission with a dividing nucleus.

23. Observe the figure given as Fig. 9.2 and answer the questions that follow.



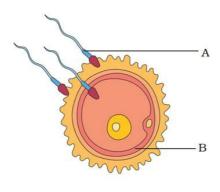


Fig. 9.2

- (a) Label A and B.
- (b) Identify the process.
- (c) What happens during this process and what is formed?

Ans. (a) A-sperm; B-ovum (egg)

- (b) Fertilisation
- (c) Sperm nucleus fuses with the egg nucleus to form the zygote.