



VIDYA BHARATI SCHOOL
OLYMPIAD WORKSHEET: October 2017
GRADE: VIII
SUBJECT: SCIENCE

1. Sets of reproductive terms are given below. Choose the set that has an incorrect combination.
 - (a) sperm, testis, sperm duct, penis
 - (b) menstruation, egg, oviduct, uterus
 - (c) sperm, oviduct, egg, uterus
 - (d) ovulation, egg, oviduct, uterus
2. In humans, the development of fertilised egg takes place in the
 - (a) ovary
 - (b) testis
 - (c) oviduct
 - (d) uterus
3. In the list of animals given below, hen is the odd one out.
human being, cow, dog, hen
The reason for this is
 - (a) it undergoes internal fertilisation.
 - (b) it is oviparous.
 - (c) it is viviparous.
 - (d) it undergoes external fertilisation.
4. Animals exhibiting external fertilisation produce a large number of gametes. Pick the appropriate reason from the following.
 - (a) The animals are small in size and want to produce more offsprings.
 - (b) Food is available in plenty in water.
 - (c) To ensure better chance of fertilisation.
 - (d) Water promotes production of large number of gametes.
5. Reproduction by budding takes place in
 - (a) hydra
 - (b) amoeba
 - (c) paramecium
 - (d) bacteria
6. Which of the following statements about reproduction in humans is correct?
 - (a) Fertilisation takes place externally.
 - (b) Fertilisation takes place in the testes.
 - (c) During fertilisation egg moves towards the sperm.
 - (d) Fertilisation takes place in the human female.
7. In human beings, after fertilisation, the structure which gets embedded in the wall of uterus is
 - (a) ovum
 - (b) embryo

- (c) foetus
 - (d) zygote
8. Aquatic animals in which fertilisation occurs in water are said to be:
- (a) viviparous without fertilisation.
 - (b) oviparous with external fertilisation.
 - (c) viviparous with internal fertilisation.
 - (d) oviparous with internal fertilisation.
9. After fertilisation, the resulting cell which gives rise to a new individual is the
- (a) embryo
 - (b) ovum
 - (c) foetus
 - (d) zygote
10. In human beings, the correct sequence of events during reproduction is
- (a) gamete formation, fertilisation, zygote, embryo
 - (b) embryo, zygote, fertilisation, gamete formation
 - (c) fertilisation, gamete formation, embryo, zygote
 - (d) gamete formation, fertilisation, embryo, zygote
11. During dry weather, while combing hair, sometimes we experience hair flying apart. The force responsible for this is
- (a) force of gravity.
 - (b) electrostatic force.
 - (c) force of friction.
 - (d) magnetic force.
12. Fig.11.3 shows a container filled with water. Which of the following statements is correct about pressure of water?

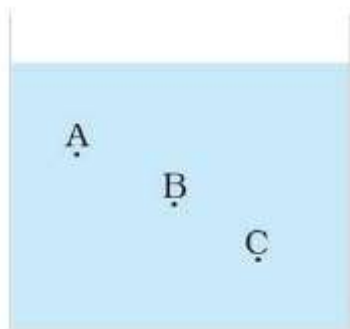


Fig.11.3

- (a) Pressure at A > Pressure at B > Pressure at C
 - (b) Pressure at A = Pressure at B = Pressure at C
 - (c) Pressure at A < Pressure at B > Pressure at C
 - (d) Pressure at A < Pressure at B
13. Two objects repel each other. This repulsion could be due to
- (a) frictional force only
 - (b) electrostatic force only
 - (c) magnetic force only
 - (d) either a magnetic or an electrostatic force
14. Which one of the following forces is a contact force?

- (a) force of gravity
- (b) force of friction
- (c) magnetic force
- (d) electrostatic force

15.

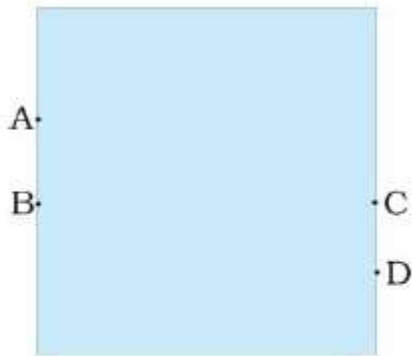


Fig. 11.4

A water tank has four taps fixed at points A, B, C, D as shown in Fig. 11.4. The water will flow out at the same pressure from taps at

- (a) B and C
- (b) A and B
- (c) C and D
- (d) A and C

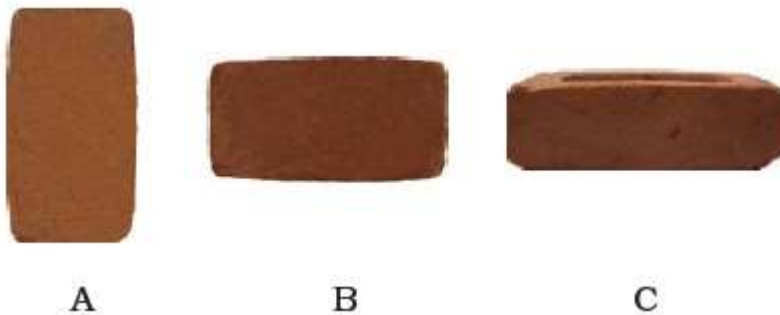


Fig. 11.5

16.

A brick is kept in three different ways on a table as shown in Fig. 11.5. The pressure exerted by the brick on the table will be

- (a) maximum in position A
- (b) maximum in position B
- (c) maximum in position C
- (d) Equal in all cases.

17. Whenever the surfaces in contact tend to move or move with respect to each other, the force of friction comes into play

- (a) only if the objects are solid.
- (b) only if one of the two objects is liquid.
- (c) only if one of the two objects is gaseous.
- (d) irrespective of whether the objects are solid, liquid or gaseous.

18. To sharpen the blade of a knife by rubbing it against a surface, which of the following will be most suitable?

- (a) stone
- (b) plastic block
- (c) wooden block
- (d) glass block

19. A toy car released with the same initial speed will travel farthest on

- (a) muddy surface
- (b) polished marble surface
- (c) cemented surface
- (d) brick surface

20. If we apply oil on door hinges, the friction will

- (a) increase
- (b) decrease
- (c) disappear altogether
- (d) will remain unchanged

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