



Date: \_\_\_\_\_

Class: VIII

Name: \_\_\_\_\_

Roll No.: \_\_\_\_\_

**I. Multiple choice questions.**

1. The animals that produce young ones are known as  
a. Oviparous b. Viviparous c. Both d. None of these
2. Tadpole is the developing stage of which of these  
a. Dog b. Cat c. Frog d. Human
3. Where does the fusion of male and female gametes generally take place?  
a. Fallopian tube b. Ovary c. Uterus d. Zygote
4. The cell formed after fertilisation is called  
a. Foetus b. Zygote c. Embryo d. None of these
5. Eggs are formed in the  
a. Testes b. Penis c. Ovary d. None of these
6. How many modes of reproduction are there in animals?  
a. One type b. Two types c. Three types d. Four types
7. A sperm consists of  
a. One-part b. Two parts c. Three parts d. Four parts
8. Foetus is a  
a. Well-developed embryo b. Developing embryo c. Zygote d. Male gamete
9. Viviparous organisms are the ones which  
a. Produce eggs b. Produce young ones c. Both I and II d. None of these
10. Cloning is a mode of  
a. Sexual production b. Asexual production c. Both I and II d. None of these
11. Provide the correct order in which the menstrual cycle occurs:  
i) Release of the egg. ii) Thickening of the uterine wall.  
iii) Breakdown of the uterine wall if pregnancy does not occur. iv) The maturation of the egg.  
a) i, ii, iii, iv b) iv,ii,i,iii c) iv, ii, i,iii d) ii,i,iv,iii
12. Which of the following does not conduct electricity?  
a) Sugar Solution b) Vinegar Solution  
c) Lemon Juice Solution d) Caustic Soda Solution
13. An electric current can produce  
a) Heating effect b) Chemical effect c) Magnetic effect d) All of these
14. Which of the following is a good conductor?  
a) Brick b) Steel c) Plastic d) Cotton
15. Electroplating is based on  
a) Heating effect of electric current b) Chemical effect of electric current  
c) Magnetic effect of electric current d) Physical effect of electric current
16. Flow of electrons is called  
a) Electrolyte b) Electroplating c) Electrodes d) Electric current
17. An electric lamp glows due to  
a) heating effect b) magnetic effect c) chemical effect d) physical effect
18. Electroplating prevents  
a) Corrosion b) Passing of current c) Dissociation d) Shining
19. Which of the following is not used for electroplating metal articles?  
a) Nickel b) Silver c) Chromium d) Sodium
20. In LEDs, the longer lead (wire) is always connected to the \_\_\_\_ terminal  
a) Negative b) Neutral c) Positive d) Any terminal
21. When electrodes are immersed in water and electricity passed, the bubbles formed on the positive terminal is actually \_\_\_\_ gas.  
a) Hydrogen b) Carbon Dioxide c) Oxygen d) Nitrogen



38. Larynx is called  
 (a) music box (b) voice box  
 (c) respiratory organ (d) sound box
39. Most adolescents attain their maximum height around the age of  
 (a) 22 – 25 years (b) 13 – 15 years (c) 11 – 12 years (d) 18 – 19 years
40. Initially girls grow  
 (a) slower than boys (b) faster than boys (c) both of these (d) none of these
41. The female hormone is called  
 (a) estrogen (b) testosterone (c) adrenaline (d) none of these
42. The number of sex chromosomes are  
 (a) three (b) two (c) four (d) none of these
43. The age of menopause is  
 (a) 45 to 50 years (b) 10-12 years (c) 20 to 35 years (d) none of these
44. Thyroxine hormone is produced by  
 (a) adrenal gland (b) testes (c) pituitary gland (d) thyroid gland
45. The male hormone is called  
 (a) estrogen (b) testosterone (c) thyroxine (d) insulin
46. Menstruation occurs once in about  
 (a) 28 to 29 days (b) 25 to 30 days (c) 45 to 50 days (d) none of these
47. The unfertilised egg always has \_\_\_\_ chromosome  
 (a) X (b) Y (c) XY (d) XX
48. Which of the following is male gonads?  
 (a) Moustache (b) Chest (c) Testes (d) Hair

## II. Fill in the blanks:

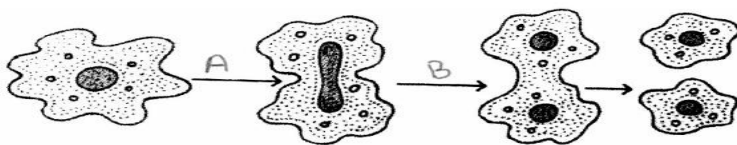
- Sex cells are also called \_\_\_\_\_. In animals the male sex cell is called \_\_\_\_ and the female sex cell is called an \_\_\_\_\_.
- \_\_\_\_\_ is the male sex hormone, \_\_\_\_\_ and \_\_\_\_\_ are the female sex hormones.
- The \_\_\_\_\_ is connected to the foetus by the umbilical cord.
- Fertilization in human beings takes place in the \_\_\_\_\_.
- In a mosquito, the eggs hatch to produce \_\_\_\_\_.
- The transformation of larva into an adult through drastic changes is called \_\_\_\_\_.
- The female reproductive organ consists of \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
- In \_\_\_\_\_ reproduction only a single parent is involved.
- \_\_\_\_\_ is essential for the continuation of species.
- The type of asexual reproduction in which an individual reproduces by dividing into two individuals is called \_\_\_\_\_.
- Females have X chromosome in the unfertilized egg, but the sperms are of two kinds, one has X chromosome, while the other has \_\_\_\_.
- Apart from stimulating the testes and ovaries for secretion of hormones, the pituitary gland is also responsible for the secretion of \_\_\_\_\_.
- The hormones secreted by the \_\_\_\_\_ stimulate testes and ovaries to produce their hormones.
- In case the egg is fertilised, it begins to divide and then gets \_\_\_\_\_ in the uterus for further development.
- The hormone adrenaline helps the body to adjust to stress when one is very \_\_\_\_\_.
- A person suffers from \_\_\_\_ when their pancreas do not produce the hormone \_\_\_\_\_ in sufficient quantities.
- The stage when the menstrual cycle stops is called \_\_\_\_\_.
- The \_\_\_\_\_ gland helps in controlling the production of both \_\_\_\_\_ testosterone and estrogen hormones.
- Diabetes is caused due to the deficiency of \_\_\_\_\_ in the body.
- \_\_\_\_\_ is caused due to deficiency of thyroxine hormone.
- \_\_\_\_\_ secretes female sex hormones.
- Sex of the unborn child depends on whether the \_\_\_\_\_ has \_\_\_\_\_ or \_\_\_\_\_ chromosomes.
- Metamorphosis in frog is controlled by \_\_\_\_\_ hormone.

24. If the water in which tadpoles are growing does not contain sufficient \_\_\_\_\_, the tadpoles cannot become adults.
25. The first menstrual flow begins at \_\_\_\_\_ and is termed as \_\_\_\_\_.

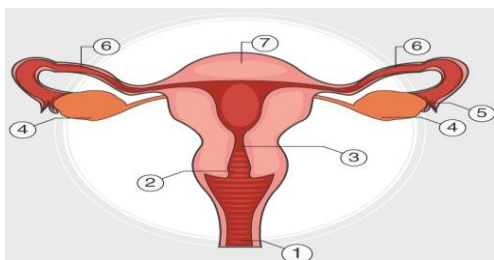
### III. Rewrite the false statements correctly.

1. Oviparous animals give birth to young ones.
2. Each sperm is a single cell.
3. External fertilization takes place in frog.
4. A new human individual develops from a cell called gamete.
5. Egg laid after fertilization is made up of a single cell.
6. Amoeba reproduces by budding.
7. Fertilization is necessary even in asexual reproduction.
8. Binary fission is a method of asexual reproduction.
9. A zygote is formed as a result of fertilization.
10. An embryo is made up of a single cell.
11. Distilled water when mixed with salt conducts electricity.
12. LED is an electric bulb which is used in a tester.
13. Deflection in compass needle is due to magnetic effect of current.
14. When electric current is passed through the copper sulphate solution, copper and sulphate ions are dissociated.
15. In an LED bulb, the shorter lead is connected to the positive terminal of the battery.
16. Electric current produces magnetic effect.
17. Some liquids are good conductors of electricity and some are poor conductors of electricity.
18. Chromium has a shiny appearance.
19. Jewellery makers electroplate silver and gold on expensive metals.
20. Electroplating wastes are useful to human health and environment.
21. Sound cannot travel in vacuum.
22. The number of oscillations per second of a vibrating object is called its time period.
23. If the amplitude of vibration is large, the sound is feeble.
24. For human ears, the audible range is 20 Hz to 20,000 Hz.
25. The lower the frequency of vibration, the higher is the pitch.
26. Unwanted or unpleasant sound is termed as music.
27. Noise pollution may cause partial hearing impairment

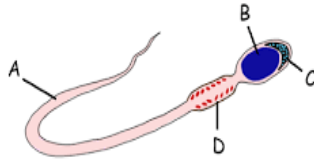
### IV. Observe the diagrams carefully and answer the questions followed by it:



1.
  - a) Identify the process of asexual reproduction shown in the diagram.
  - b) Name the organism in which it occurs.
  - c) Label A and B shown in the diagram.



2.
  - a) Identify and label 1, 2, 3, 4, 5, 6, and 7.
  - b) Which part is the site of fertilisation?
  - c) Which part is the site for the development of embryo and implantation?
  - d) Which part is the site of formation of egg or ovum?



- 3.
- Identify the diagram shown and label its each part.
  - What is the function of C and D?

### Higher Order Thinking Questions:

- What will happen if the chromosome number is not reduced to half in the gametes by the process of meiosis?
- Why do only male gametes have a tail?
- Mother gives birth to a baby but the baby has characters of both parents. How?
- Though hen and frog both are oviparous yet they have different types of fertilisation. Justify.
- Ram with his family went to a picnic spot near a pond. He saw some jelly-like mass floating on the sides of the pond. He asked about this to his father. His father explained him that these are frog's eggs and are millions in number. Ram wondered if all of them get hatched, what will happen to other aquatic animals?
  - What type of fertilisation is shown by frog?
  - Why do frog lay eggs in large amount?
  - Is Ram's concern about hatching of too many eggs at a time will affect the aquatic animals justified? Why?
  - What value of Ram is shown here?
- How does twinning occurs during sexual reproduction?
- The eggs of frogs do not have shells for protection, yet they are safe in water. How?
- Suppose a disease affecting the reproductive system, strikes all individuals of a species. What will happen to the species? Give reasons.
- Can the process of a child changing into an adult be called metamorphosis? Give appropriate reason to justify your answer.
- Can a woman with a blocked fallopian tube give birth to a child normally? Why?
- Chromium plating is done on many objects such as car parts, bath taps, kitchen gas stove etc. Why?
- Give the location of the following glands in human body and write their functions.
  - Pituitary
  - Thyroid
  - Adrenal
- Does distilled water conduct electricity? What will happen if we add sugar to it and then salt to it? Explain.
- Suppose you want to deposit silver on an iron spoon using silver nitrate as electrolyte. Which terminal of the battery should you connect the spoon? What material should the other electrode be made of?