

a) Hydrogen

b) Carbon Dioxide

## DR. VIRENDRA SWARUP PUBLIC SCHOOL, KALYANPUR

# SESSION: 2021-22 WORKSHEET

Subject -Science			
Date: Name:	Class: VIII  Roll No.:		
I. Multiple choice questions.			
<ol> <li>The animals that produce young ones are known as</li> <li>a. Oviparous b. Viviparous c. Both d. None of these</li> </ol>			
2. Tadpole is the developing stage of which of these			
a. Dog b. Cat c. Frog d. Human  Where does the fusion of male and famale gemetes generally take place	<b>.</b> 9		
<ol> <li>Where does the fusion of male and female gametes generally take place a. Fallopian tube b. Ovary c. Uterus d. Zygote</li> </ol>	5 <b>:</b>		
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	ala gamata		
<ul><li>a. Well-developed embryo</li><li>b. Developing embryo</li><li>c. Zygote</li><li>d. Ma</li><li>9. Viviparous organisms are the ones which</li></ul>	are gamete		
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. Nor	ne of these		
11. Provide the correct order in which the menstrual cycle occurs:			
i) Release of the egg. ii) Thickening of			
iii) Breakdown of the uterine wall if pregnancy does not occur. iv) The	e 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	ıtion		
13. An electric current can produce	ation		
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			
	t of electric current		
, ,	of electric current		
16. Flow of electrons is called			
a) Electrolyte b) Electroplating c) Electrodes d) I	Electric current		
17. An electric lamp glows due to a) heating effect b) magnetic effect c) chemical effect d) p	physical affact		
a) heating effect b) magnetic effect c) chemical effect d) p 18. Electroplating prevents	physical effect		
	Shining		
19. Which of the following is not used for electroplating metal articles?	5g		
	odium		
20. In LEDs, the longer lead (wire) is always connected to the terming	al		
a) Negative b) Neutral c) Positive d) Any			
21. When electrodes are immersed in water and electricity passed, the bub terminal is actually gas.	bles formed on the positive		

c) Oxygen

d) Nitrogen

22. Why do we add little dilute sulphu				
a) To increase acidity		crease conductivity		
c) So that the colour becomes mor				
23. A coating of is deposited on		osion and formation of rust		
a) Copper b) Aluminium c) Z		hath tang laitahan aga atawa ata Wilaya		
		bath taps, kitchen gas stove etc. Why?		
a) It does not corrode and prevent				
c) It costs less		in be sold at higher prices.		
25. Tin cans, used for storing food, are				
<ul><li>a) Tin gives a shiny appearance</li><li>c) Tin is less reactive than iron.</li></ul>				
26. In which one of the following situ				
a) Protons in a beam are moving d		olecule is moving due north		
c) Electron in a beam are moving of	· · · · · · · · · · · · · · · · · · ·			
- · · · · · · · · · · · · · · · · · · ·				
27. When electricity is passed through calcium nitrate solution in water, what is likely to be formed and why?  a) Hydrogen because it is more reactive than calcium.				
b) Calcium because it is more reac				
c) Hydrogen because it is less reac	• •			
d) Calcium because it is less reacti				
28. Which of the following statements	• •			
a) Anode is an electrode connected		the battery.		
b) Pure water is poor conductor of electricity.				
c) Electrolysis is used in the refini	•			
d) Ions can have only a positive ch				
29. Which of the following cells use(s) electric current to produce a chemical reaction?				
· · · · · · · · · · · · · · · · · · ·	b) Solar cells			
c) Dry cells	d) Both dry cell and electrol	ytic cell		
30. Why is the switch for any electrical	al appliance in AC circuit al	ways connected to the live wire?		
a) No current flows in the neutral	wire.			
b) There will be a short circuit if the	he switch is in the Earth lead	d.		
c) The device can be switched off	•			
d) The device can be isolated (mod	de safe) if the switch is in th	e live lead.		
31. Which of the following is correct?				
a) Water can be used for extinguis				
b) Carbon is a non-metal so it can				
c) A liquid conducts electricity be	<u>-</u>	S.		
d) Pure water forms ions to condu	•			
32. The is the visible portion of				
a) Incus b) Stapes	c) Auricle	d) Malleus		
32. The hearing range of human ear is	) 1			
	b) less than 20 Hz			
	d) 20 Hz to 25,000 Hz			
33. Pitch of sound is determined by its		d) landrage		
a) frequency b) speed	l c) amplitude	d) loudness		
34. Cochlea is a part of	a) Cound and ducing oncon			
	b) Sound producing organ			
,	d) Air pollution			
35. 1 hertz is equal to a) 1 vibration per minute	a) 10 vibrations per minute			
	<ul><li>o) 10 vibrations per minute</li><li>d) 600 vibrations per minute</li></ul>			
36. Sound cannot travel through	a) 000 vibrations per infinite			
a) Water b) Air				
c) Solids d) Vacu	ıım			
37.The maximum displacement of a b		is		
a) Amplitude b) Oscil	· ·			
, 1	,	/J		

38. Larynx is called				
(a) music box (b) voice box				
(c) respiratory organ (d) sound bo				
39. Most adolescents attain their maximum height				
(a) $22 - 25$ years (b) $13 - 15$ years	(c) $11 - 12 \text{ y}$	years (d) $18 - 19$ years		
40. Initially girls grow				
(a) slower than boys (b) faster than boys	(c) both of the	nese (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		(1) 1		
(a) adrenal gland (b) testes	(c) pituitary gland	(d) thyroid gland		
45. The male hormone is called		(A) : 1:		
(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 chromos		(1) ****		
(a) X (b) Y	(c) XY	(d) XX		
48. Which of the following is male gonads?	( ) <b>T</b>	(1) 11 .		
(a) Moustache (b) Chest	(c) Testes	(d) Hair		
II Eill in the blonker				
II. Fill in the blanks:				
1 Say calls are also called In animals t	ha mala say aall is aall	lad and the female say call is		
Sex cells are also called In animals t	ne maie sex cen is can	led and the remaie sex cen is		
called an  2 is the male sex hormone, a	and are the fer	nala say hormonas		
		nate sex normones.		
3. Theis connected to the foetus by the umbilical cord.				
<ul><li>4. Fertilization in human beings takes place in the</li><li>5. In a mosquito, the eggs hatch to produce</li></ul>				
6. The transformation of larva into an adult thro	 woh drastic changes is	called		
7. The female reproductive organ consists of				
8. In reproduction only a single pa	erent is involved	and		
<ul><li>8. In reproduction only a single parent is involved.</li><li>9 is essential for the continuation of species.</li></ul>				
10. The type of asexual reproduction in which an individual reproduces by dividing into two individuals				
is called				
11. Females have X chromosome in the unfertilized egg, but the sperms are of two kinds, one has X				
chromosome, while the other has				
12. Apart from simulating the testes and ovaries for secretion of hormones, the pituitary gland is also				
responsible for the secretion of				
13. The hormones secreted by the stimulate testes and ovaries to produce their hormones.				
14. In case the egg is fertilised, it begins to divide and then gets in the uterus for further				
development.				
15. The hormone adrenaline helps the body to adjust to stress when one is very				
16. A person suffers from when their pancreas do not produce the hormone in sufficient quantities.				
17. The stage when the menstrual cycle stops is called				
18. The gland helps in controlling the production of both testosterone and estrogen hormones.				
19. Diabetes is caused due to the deficiency of in the body.				
20is caused due to deficiency of thyroxine hormone.				
21 secrets female sex hormones.				
22. Sex of the unborn child depends on whether the has or chromosomes.				
23. 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 \_\_\_\_.

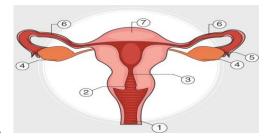
#### III. Rewrite the false statements correctly.

- 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

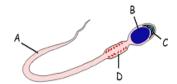
#### IV. Observe the diagrams carefully and answer the questions followed by it:



- 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.

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

### **Higher Order Thinking Questions:**

- 1. What will happen if the chromosome number is not reduced to half in the gametes by the process of meiosis?
- 2. Why do only male gametes have a tail?
- 3. Mother gives birth to a baby but the baby has characters of both parents. How?
- 4. Though hen and frog both are oviparous yet they have different types of fertilisation. Justify.
- 5. 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?
  - i) What type of fertilisation is shown by frog?
  - ii) Why do frog lay eggs in large amount?
  - iii) Is Ram's concern about hatching of too many eggs at a time will affect the aquatic animals justified? Why?
  - iv) What value of Ram is shown here?
- 6. How does twinning occurs during sexual reproduction?
- 7. The eggs of frogs do not have shells for protection, yet they are safe in water. How?
- 8. Suppose a disease affecting the reproductive system, strikes all individuals of a species. What will happen to the species? Give reasons.
- 9. Can the process of a child changing into an adult be called metamorphosis? Give appropriate reason to justify your answer.
- 10. Can a woman with a blocked fallopian tube give birth to a child normally? Why?
- 11. Chromium plating is done on many objects such as car parts, bath taps, kitchen gas stove etc. Why?
- 12. Give the location of the following glands in human body and write their functions.
  - (a) Pituitary
  - (b) Thyroid
  - (c) Adrenal
- 13. Does distilled water conduct electricity? What will happen if we add sugar to it and then salt to it? Explain.
- 14. 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?