

# NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH, K.S.A

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## WORKSHEET-1

**GRADE: 8 – ANNUAL EXAMINATION (2019-20)**

**SET A**

**SUBJECT: SCIENCE**

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**I. Choose the correct answer (10x1)**

1. Cells were discovered by:  
a. Robert Hooke   b. Alexander Fleming   c. Marie Curie   d. Robert Boyle
2. Small circular structure inside the nucleus  
a. Lysosome  
b. Centrosome  
c. Nucleolus  
d. Plastid
3. Which of the following sex chromosome will be present in a female cell?  
a. XX  
b. XY  
c. YY  
d. Both a. and b.
4. The number of chromosomes in the nucleus of each cell in the human body is:  
a. 45  
b. 46  
c. 21  
d. 23
5. Which of the following glands are responsible for controlling stress and anxiety?  
a. Thyroid gland  
b. Pituitary gland  
c. Pancreas  
d. Adrenal gland
6. A force that causes charges to attract or repel?

- a. Magnetic force
  - b. Gravitational force
  - c. Electrostatic force
  - d. Frictional force
7. If an unbalanced force acts on an object, which of the following is true?
- a. Net force is not zero
  - b. Net force is zero
  - c. Forces acting on opposite sides are equal
  - d. The object will continue in its state of motion
8. When hands are rubbed against each other, the hands feel warm. This is due to:
- a. Increasing friction
  - b. The warm climate
  - c. Decreasing friction
  - d. Electrostatic force
9. Which of the following liquids do not conduct electricity?
- a. Sugar solution
  - b. Lemon juice
  - c. Liquid soap
  - d. Salt solution

**II. Answer the following in a word or sentence. (5x1)**

- 10. Define viscosity.
- 11. What is Pascal's law?
- 12. Why is earthing done?
- 13. Which connection should we use for a circuit so that the same current passes through all the components?
- 14. Define electrolysis.
- 15. What is the function of the ribosome?

**III. Answer the following in a word or sentence. (5x2)**

- 16. Why does dust and fluff from the cloth stick to the mirror when wiped in dry weather?
- 17. Give reason: An inflated balloon does not sink in water
- 18. Dams are made broad at the bottom than at the top. Why is that so?
- 19. A box whose edges are 5 m long and 2 m wide, weighs 400N. How much pressure does it exert on the ground?
- 20. What does fluid friction depend on?

**IV. Answer the following questions briefly:**

21. What are the three methods of charging an object?
22. What is an electroscope? Why are only metals used in the construction of an electroscope?
23. Explain why the gender of a child cannot be determined by the mother's chromosome.
24. Explain with a flow chart how the ovaries and testes produce sex hormones.
25. Which cell organelle is called the powerhouse of the cell? Give reason.
26. Ratika observed two samples of cells – an onion peel and a cheek cell- under a microscope. She noted that they look different. How are the two samples of cells different? Why?
27. Why are the cells of blue green algae called “prokaryotic”? Are they different from a plant cell?

**V. Answer the following in detail :**

28. Explain the process illustrated by the experimental set-up given below :

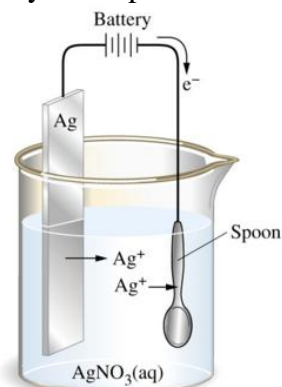


Fig : 1

29. Describe the structure and parts of a cell with the help of a labelled diagram.
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