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WORKSHEET -2

GRADE: 8 – ANNUAL EXAMINATION (2019-20)

SUBJECT: SCIENCE

I. Choose the correct answer (10x1)

1. The power house of cell is called
 - a) Cell wall
 - b) Mitochondria
 - c) Ribosomes
 - d) Nucleus

2. The control unit of cell is
 - a) Nucleus
 - b) Cell wall
 - c) Cytoplasm
 - d) All of these

3. The male hormone is
 - a. Oestrogen
 - b. Projestrone
 - c. Testosterone
 - d. All of these

4. The period of maturity of reproductive organs is called.
 - a. Adolescence period
 - b. Mensuration
 - c. Gestation period
 - d. None of these

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. The force between two charged bodies is called
 - a. muscular force

- b. gravitational force
- c. magnetic force
- d. electrostatic force

7. When two forces act in opposite directions, then net force acting two forces

- a. sum of two factors
- b. difference between two factors
- c. both of these
- d. none of these

8. SI unit of Pressure

- a. Newton
- b. Pascal
- c. Joule
- d. Newton/metre

9. Electroplating is based on

- a. Magnetic effect of electricity
- b. Chemical effect of electricity
- c. Heating effect of electricity
- d. Physical effect of electricity

10. Flow of electron is called

- a. Electroplating
- b. Electric current
- c. Electrodes
- d. Electrolyte

II. Answer the following in a word or sentence. (7x1)

- 11. What is a cell?
- 12. Define harmonie.
- 13. What is net force?
- 14. What is another name for fluid friction?
- 15. Define one Pascal.
- 16. What is Earthing?
- 17. Define electrolysis.

III. Answer the following in a word or sentence. (7x2)

- 18. How are cheek cells different from onion peel cells?
- 19. Draw a diagram to show how chromosomes determine the development of a male child.
- 20. Explain why we tend to move forward in a car when brakes are suddenly applied?

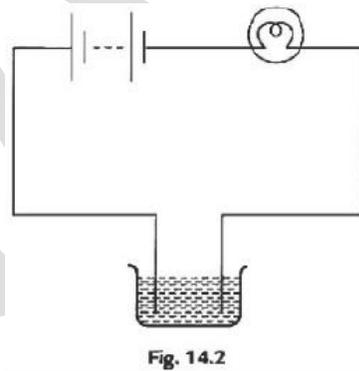
21. Friction is “necessary evil”. Justify the statement with relevant examples.
22. Calculate the pressure, if the force applied to a bench by a block is 80N. The area of contact of the block is 2 m^2 .
23. State the law of electrostatic force of attraction and repulsion.
24. A parallel circuit has three bulbs. A current 6 A is passed through the circuit. How much current will pass through each bulb.

IV. Answer the following questions briefly (7x3)

25. (a) Which features of eukaryotic cells suggest that they have evolved from prokaryotic cells?
(b) What is the function of the ribosomes?
26. Explain why the sex of a child cannot be determined by the mother’s chromosomes.
27. Name the forces acting on a plastic bucket containing water held above ground level in your hand. Discuss why the forces acting on the bucket do not bring a change in its state of motion.
28. (a) Explain the bodies of airplanes and birds are streamlined
(b) Why can’t ships or boats be rounded or square in shape?
29. (a) Remy climbed a mountain. Upon reaching the top, her ears popped. Why?
(b) How is pressure different from force.
30. How does an electroscope work? Explain using a diagram.
31. Describe how a steel spoon can be electroplated with silver?

V. Answer the following in detail : (2x5)

32. (a) The bulb does not glow in the set up shown in Fig. List the possible reasons. Explain your answer.



(b) In case of a fire before the firemen use the water hoses, they shut off the main electrical supply for the area. Explain why they do this.

33. (a) What is the difference between a plant cell and an animal cell?
(b) What are vacuoles and Golgi bodies?
