

DELHI PUBLIC SCHOOL, MIYAPUR

CLASS: VIII : SCIENCE : 23rd JULY, 2020, ASSESSMENT - 2
MARKS:25

* Required

NAME : *

Abhinav Kamatamu

SECTION *

A ▼

Read all the instructions carefully :

General Instructions:

1. The question paper consists of 25 multiple choice questions.
2. All questions are compulsory.
3. Click the submit button after you have written all the answers.
4. Select the correct answer carefully as once you submit the form, it cannot be reversed.



1. During dry weather, while combing hair, sometimes we experience hair flying apart. The force responsible for this is-----.

1 point

- ☐ a. Force of gravity
- ☒ b. Electrostatic force
- ☐ c. Force of friction
- ☐ d. Magnetic friction

Clear selection

2. A body weighing 200N is placed on a wooden board of area 4cm². The pressure exerted by the body on the wooden board is -----

1 point

- ☒ a. 5,00,000 Pa
- ☐ b. 50,000 Pa
- ☐ c. 5000 Pa
- ☐ d. 500 Pa

Clear selection



1 point

3. Assertion: Sharp Knives are used to cut the vegetables.

Reason: sharp edges exert more pressure.

- ☒ a. Both assertion and reason are true and reason is the correct explanation of assertion.
- ☐ b. Both assertion and reason are true, but reason is not the correct explanation of assertion.
- ☐ c. Assertion is true but the reason is false.
- ☐ d. assertion is false, but the reason is true

Clear selection

4. In the figure given below, when two forces act in opposite directions, the net force acting on the body is -----.



- ☐ a. The sum of two forces.
- ☒ b. The Difference of two forces
- ☐ c. The Product of two forces.
- ☐ d. zero, as they cancel each other.

Clear selection



5. The pressure of a gas contained in a cylinder with a movable piston is 300 Pa. The area of the piston is 5 m². The force exerted on the piston is -----.

1 point

- ☐ a. 15000 N
- ☒ b. 1500 N
- ☐ c. 60 N
- ☐ d. 600 n

Clear selection

6. $1 \text{ N/m}^2 = \text{-----Pa.}$

1 point

- ☐ a. 100 Pa
- ☐ b. 10 Pa
- ☒ c. 1 Pa
- ☐ d. 1000 Pa

Clear selection



7. Look at the images given below and answer the question followed.

1 point



In which of the given images is indirect application of force involved.

- ☐ a. (ii)
- ☐ b. (i)
- ☐ c. (iv)
- ☒ d. (iii)

Clear selection



8.

1 point



Porter A



Porter B

Porter A was carrying load directly on his head whereas porter B put a roll of cloth on his head and then carried the load. Porter B is able to carry his load much easier. Why?

- ☐ a. The roll of cloth reduces the friction.
- ☐ b. The roll of cloth helps in absorbing sudden jerks.
- ☒ c. The roll of cloth increases the surface area of contact.
- ☐ d. None of the above.

[Clear selection](#)

9. An archer stretches her bow while taking aim at the target. She then releases the arrow, which begins to move towards the target. Based on this information fill up the blanks in the following statements choosing the correct option. 1 point

- i. To stretch the bow, the archer applies a force that causes a change in its -----.
- ii. The force applied by the archer to stretch the bow is an example of ----- force.
- iii. The type of force responsible for a change in the state of motion of the arrow is an example of a ----- force.
- iv. While the arrow moves its target, the forces acting on it are due to ----- and that due to ----- of air.

- ☒ a. Shape, Muscular, Contact, Gravity and friction
- ☐ b. Muscular, Shape, Contact, friction and Gravity
- ☐ c. Contact, Shape, Muscular, Gravity and friction
- ☐ d. Shape, Non-contact, Muscular, Gravity and friction

Clear selection

10. Radha's favourite hobby is to watch the night sky. She has located a bright star with the help of the constellation Ursa Major. No matter what the position of earth is, this star does not change its position. She has also heard that this star is used as a reference point by the voyagers for navigation. Can you tell Radha which star it is? 1 point

- ☐ a) Proxima Centauri
- ☒ b) Pole star
- ☐ c) Vega
- ☐ d) Titan

Clear selection



11. Uranus was discovered by _____.

1 point

- ☐ a) Neil Armstrong
- ☐ b) Rakesh Sharma
- ☒ c) Sir William Herschel
- ☐ d) Kalpana Chawla

Clear selection

12. Venus is called morning star and evening star _____.

1 point

- ☒ a) Because it is visible before sunrise and after sunset
- ☐ b) Because it is visible after sunrise and before sunset
- ☐ c) Because it is visible all night
- ☐ d) Because it is visible throughout the year

Clear selection

13. Rehan was reading about planets. He just learned about a planet that has no moon, the diameter of this planet is 5000 km, can you identify the planet?

1 point

- ☐ a) Neptune
- ☐ b) Jupiter
- ☐ c) Venus
- ☒ d) Mercury

Clear selection



14. A striking feature of Venus's rotational axis is _____.

1 point

- ☐ a) It rotates from south to north
- ☐ b) It rotates from west to east
- ☒ c) It rotates from east to west
- ☐ d) It rotates from north to south

Clear selection

15. Radha has identified a constellation in sky (shown below), she is so amazed to see two bright stars in the below constellation, identify the two brights stars mentioned here.

1 point



- ☐ a) Jupiter and Uranus
- ☐ b) Alpha century and Pole star
- ☒ c) Betelgeuse and Rigel
- ☐ d) Vega and Sirius

Clear selection



16. Arrange them according to their number of moons

1 point

- ☒ a) Jupiter>Neptune>Earth
- ☐ b) Jupiter<Neptune<Earth
- ☐ c) Jupiter>Earth>Neptune
- ☐ d) Neptune>Jupiter>Earth

Clear selection

17. Which of the following is/are postulates of cell theory?

1 point

- i) New cells arise from pre-existing cells
- ii) Tissue is the basic functional unit
- iii) All cells are identical and have same function
- iv) All living organisms are made up of cells

- ☐ a) i, ii, iii, iv
- ☒ b) i, iv
- ☐ c) ii, iii, iv
- ☐ d) ii, iii

Clear selection



1 point

18. Assertion (A): Chromosomes are responsible for the transfer of characteristics from parents to offspring

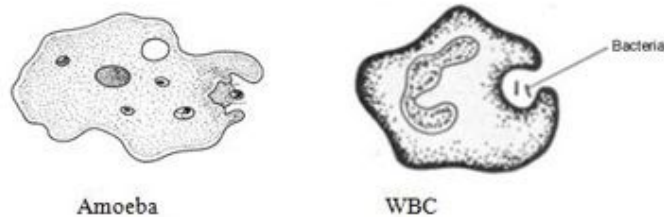
Reason (R): Chromosomes are present in the nucleus.

- ☐ a) Both A and R are true and R is the correct explanation of A
- ☐ b) A is true but R is false
- ☐ c) A is false but R is true
- ☒ d) Both A and R are true but R is not the correct explanation of A

Clear selection

19. Based on the given statements, choose the correct option.

1 point



- Statement 1: Amoeba and WBCs use pseudopodia for engulfing particles
- Statement 2: Amoeba and WBCs are both capable of independent existence.
- Statement 3: Amoeba and WBCs can change their shapes.
- Statement 4: Amoeba and WBCs have cell membranes.

- ☒ a) Statement 3 is incorrect.
- ☐ b) Statement 2 is incorrect.
- ☐ c) Statement 1 is incorrect.
- ☐ d) Statement 4 is incorrect

Clear selection

20. What would happen if cell walls were present in animal cells?

1 point

- ☐ a) Extra protection for the cell
- ☐ b) Regulates the entry of materials
- ☐ c) Cell would become rigid
- ☒ d) All the above

Clear selection

21. White blood cells are irregular in shape to engulf particles. What is the correct explanation for this?

1 point

- ☒ a) Shape of a cell depends upon its function
- ☐ b) Size of a cell depends upon its number
- ☐ c) Number of cells depend on their shape
- ☐ d) Shape of a cell depends on its size

Clear selection

22. In an animal cell, which among the following organelles has its own DNA?

1 point

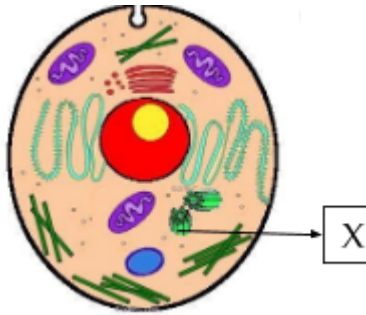
- ☐ a) Chloroplast
- ☐ b) Chromoplast
- ☐ c) Leucoplast
- ☒ d) Mitochondria

Clear selection



23. Identify X. Choose the correct answer as function of X

1 point



- ☐ a) protein synthesis
- ☒ b) packaging of proteins
- ☐ c) cell division
- ☐ d) supply of energy

Clear selection

24. Which cell organelle is involved in removing the worn out cell organelles?

1 point

- ☐ a) Mitochondria
- ☐ b) Plastids
- ☐ c) Ribosomes
- ☒ d) Lysosomes

Clear selection



25. Which structures are found only in plant cells?

1 point

- ☐ a) Chromoplast, ribosomes
- ☒ b) Cell wall, leucoplast
- ☐ c) Cell wall, Mitochondria
- ☐ d) Chloroplast, cell membrane

Clear selection

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