

DELHI PUBLIC SCHOOL, MIYAPUR

CLASS : VIII : SCIENCE : 19th AUGUST, 2020, CHECK FOR UNDERSTANDING MODULE-3
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.



Untitled Question

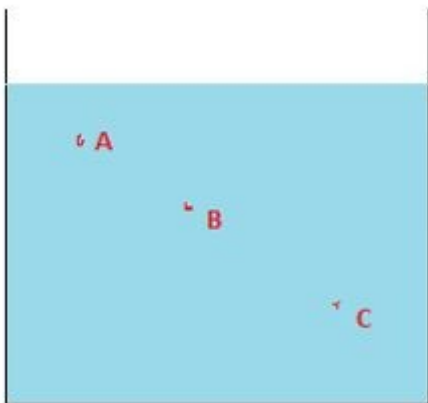
1. Assertion: Air in the tyres of cars and cycles and even balloons exerts pressure.

Reason: Intermolecular space is the cause of air pressure as it is maximum in gases.

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

Clear selection

2) The below figure shows a container filled with water. Which of the following statements is correct about the pressure of water?



- ☒ (a) Pressure at A > Pressure at B > Pressure at C
- ☐ (b) Pressure at A = Pressure at B = Pressure at C
- ☐ (c) Pressure at A < Pressure at B > Pressure at C
- ☐ (d) Pressure at A < Pressure at B < Pressure at C

Clear selection

3) Look at the picture and answer the question that follows.



The mountaineer in the picture experienced nose bleeding when he reached the top. What could be the likely reason?

- ☐ a. Increase in atmospheric pressure.
- ☒ b. Decrease in atmospheric pressure.
- ☐ c. Increase in gravitational pull.
- ☐ d. Decrease in gravitational pull.

Clear selection

4. A boy runs his toy car on a dry marble floor, wet marble floor, newspaper, and towel spread on the floor. The force of friction acting on the car on different surfaces in increasing order will be :

- ☐ a. Wet marble floor, dry marble floor, Newspaper, Towel
- ☐ b. Newspaper, Towel, Dry marble floor, Wet marble floor
- ☒ c. Towel, Newspaper, Dry marble floor, Wet marble floor
- ☐ d. Wet marble floor, dry marble floor, Towel, Newspaper

Clear selection



5. In a large commercial complex, there are four ways to reach the main road. One of the paths has loose soil, the second is laid with polished marble, the third is laid with bricks and the fourth has a gravel surface. It is raining heavily and Rohan wishes to reach the main road. The path on which he is least likely to slip is -

- ☐ (a) Loose soil
- ☐ (b) Polished marble
- ☒ (c) Bricks
- ☐ (d) Gravel

Clear selection

6. Deep-sea diving vessels have to withstand pressure from the crushing effect of seawater acting on it in-----

- ☐ a. Upward direction
- ☐ b. Downward direction
- ☐ c. Sideways
- ☒ d. All directions

Clear selection



7. Statement 1: The mercury in the barometer neither gets wet nor sticks to the glass tube.

Statement 2: Mercury is less dense than water

Statement 3: The vapour pressure of mercury is negligible, so it does not affect the barometric height.

Statement 4: The greater the air pressure, the lesser the mercury rises.

Identify the incorrect pair of statements.

- ☐ a. Statements 1 and 2 .
- ☒ b. Statement 2 and 4 .
- ☐ c. Statements 2 and 3.
- ☐ d. Statements 1 and 4 .

Clear selection

8. Observe the given pictures carefully and identify the celestial bodies.



- ☐ a) (i)asteroids (ii) A satellite (iii) Meteors (iv) A comet
- ☐ (b) (i) A satellite (ii) A comet (iii) asteroids (iv) Meteors
- ☒ c) (i)Meteors (ii) A comet (iii) A satellite (iv) asteroids
- ☐ (d) (i)asteroids (ii) A comet (iii) A satellite (iv) Meteors

Clear selection

9. When a meteoroid begins to enter Earth's atmosphere, it begins to burn up. Which force causes this?



- ☐ (a) Gravity
- ☒ (b) Friction
- ☐ (c) EM Radiation
- ☐ (d) Force of attraction

Clear selection

10. Which statement is true about Meteorites?



- ☒ (a) They hit the ground
- ☐ (b) They burn up completely in the atmosphere
- ☐ (c) They are debris from asteroids/comets that float around in space
- ☐ (d) They revolve around the sun

Clear selection



11. The tail of a comet :

- ☐ (a) points toward the Sun as the comet moves out of the inner Solar Systems.
- ☒ (b) always points away from the Sun due to the force of the solar wind.
- ☐ (c) points towards the Sun as the comet approaches it.
- ☐ (d) both (b) and (c)

Clear selection

12. Which of the following reacts with cold water vigorously?

- ☐ (a) Aluminium
- ☒ (b) sodium
- ☐ (c) magnesium
- ☐ (d) sulphur

Clear selection

13. Identify the correct Statement/s

- (i) Metal oxides are acidic in nature and Non metal oxide are basic in nature
- (ii) Metal oxides are basic in nature and Non metal oxide are acidic in nature
- (iii) Metal oxide with water turn blue litmus red and Non metal oxide turn red litmus blue
- (iv) Metal oxide with water turn red litmus blue and Non metal oxide turn blue litmus red

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

Clear selection



14. Fill in the blanks

- (i) Metal with low melting point and boiling point _____
- (ii) Non metal which is liquid at room temperature _____
- (iii) Metal that can be cut with knife _____
- (iv) Non metal which is lustrous _____

- ☒ (a) (i) Potassium (ii) Mercury (iii) Sodium (iv) graphite
- ☐ (b) (i) Sodium (ii) Bromine (iii) Potassium (iv) iodine
- ☐ (c) (i) Sodium (ii) Bromine (iii) Aluminium (iv) graphite
- ☐ (d) (i) Potassium (ii) Mercury (iii) Sodium (iv) iodine

Clear selection

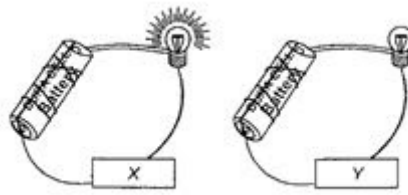
15. The rocks from which the metals can be extracted for profitable uses are called _____

- ☐ a) Metals in combined state
- ☐ b) Minerals
- ☒ c) Ores
- ☐ d) Metals in free state

Clear selection



16. Materials 'X and 'Y' in the figure are _____



- ☐ (a) X-copper block Y- Pencil Lead
- ☐ (b) X- Wooden block Y- Pencil Lead
- ☒ (c) X- Pencil lead Y- Charcoal block
- ☐ (d) X-charcoal block Y- Wooden block

Clear selection

17. Assertion: A prokaryotic cell can divide several times in an hour. Most eukaryotic cells cannot divide this quickly.

Reason: Eukaryotic cells have less DNA than prokaryotic cells

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

Clear selection

18. Which of the following cell organelles are found in both plant and animal cells?

- ☒ a) Mitochondria, vacuole, nucleus, cell membrane, cytoplasm, ribosomes
- ☐ b) ER, nucleus, cell membrane, vacuole, cytoplasm, cell wall, Golgi complex
- ☐ c) Ribosomes, cell wall, chloroplasts, nucleus, ER, ribosomes,
- ☐ d) Golgi complex, nucleus, cell membrane, cell wall, centrosomes

Clear selection

19. Which statement is incorrect regarding cell division?

- ☐ a) It helps in repair mechanism
- ☐ b) The parent cell divides into two daughter cells
- ☒ c) It increases the number of worn-out cell organelles
- ☐ d) It occurs when cell gets sufficient nutrition

Clear selection

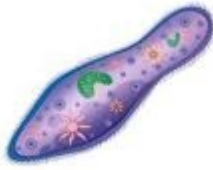
20. Mention the role of glycerine in making temporary mounts of onion cells and cheek cells.

- ☐ a) dyes the specimen
- ☒ b) keeps the specimen moist
- ☐ c) removes excess stain
- ☐ d) all of the above

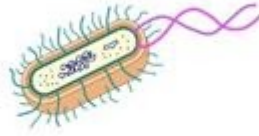
Clear selection



21. Observe the pictures A and B. Choose the correct option.



A



B

- ☐ a) A is prokaryotic with well-defined nucleus and B is eukaryotic without well-defined nucleus
- ☐ b) A is eukaryotic without well-defined nucleus and B is prokaryotic with well-defined nucleus
- ☒ c) A is eukaryotic with well-defined nucleus and B is prokaryotic without well-defined nucleus
- ☐ d) A is prokaryotic without well-defined nucleus and B is eukaryotic with well-defined nucleus

Clear selection

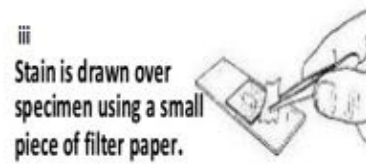
22. Rearrange the steps involved in mounting of onion peel.



i
An onion is cut into quarters.



ii
A drop of stain is put at one end of slide.



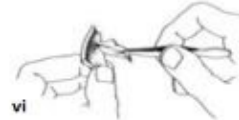
iii
Stain is drawn over specimen using a small piece of filter paper.



iv
One of the fleshy scale leaves is removed.



v
Epidermis is placed on slide & covered with 2-3 drops of distilled water. Coverslip is lowered.



vi
A thin inner layer of epidermis is peeled off.

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

Clear selection

23. Assertion: Cell division is necessary for living beings

Reason: It helps in growth of the organism

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

Clear selection

24. Rama observed a specimen under a microscope which had cells with cell membrane, nucleus, cytoplasm, and cell wall. What could the specimen be?

- ☐ a) Bacteria
- ☒ b) Mango leaf
- ☐ c) Earthworm
- ☐ d) Mushroom

Clear selection

25. Which of the statement(s) is/are true in preparing temporary mounts?

- i) Specimens should be moist
- ii) Stains should not be used
- iii) Cover slip should be placed on the specimen before viewing under the microscope
- iv) Air bubbles should be avoided in the specimen

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

Clear selection

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