

SAMPLE PAPER SCIENCE (CLASS 9)

Q1 What is the correct increasing order of oxidation state of nitrogen in following compound?



- a) $\text{NH}_3 < \text{NO}_2 < \text{N}_2 < \text{NH}_2\text{OH}$
- b) $\text{NH}_3 < \text{NH}_2\text{OH} < \text{NO}_2 < \text{N}_2$
- c) $\text{NO}_2 < \text{OH}_2 < \text{NH}_2\text{OH} < \text{NH}_2$
- d) $\text{NH}_2 < \text{NH}_2\text{OH} < \text{N}_2 < \text{NO}_2$

ANSWER (d)

Q2 The weight of a person on the Moon is about 1/6 times that on the Earth. He can lift a mass of 23 kg on the earth. What will be the maximum mass which can be lifted by the same force applied by the person on the Moon ?

- a) 136 kg
- b) 276 kg
- c) 138 kg
- d) 248 kg

ANSWER- (c)

Q3 Casparian strips are present in the _____ of the root.

- a) Pericycle
- b) Cortex
- c) Epiblema
- d) Endodermis

ANSWER-(d)

Q4 What exactly is a conservation force conserving?

- a) Force
- b) Energy
- c) Velocity
- d) Acceleration

ANSWER- (b)

Q5 A measured temperature on Fahrenheit scale is 200°F. What will this reading be on Celsius scale?

- a) 40 °C
- b) 94 °C
- c) 93.3 °C
- d) 30 °C

ANSWER- (c)

Q6 A baby has been born with a small tail. It is the case exhibiting

- a) Atavism
- b) Mutation
- c) Retrogressive evolution
- d) Metamorphosis

ANSWER- (a)

Q7 What will be the molarity of a solution, which 5.85g of NaCl(s) per 500 mL?

- a) 4 molL⁻¹
- b) 20 molL⁻¹
- c) 0.2 molL⁻¹
- d) 2 molL⁻¹

ANSWER(c)

Q8 A conservative force is dependent only on:

- a) Position of the objects
- b) Position of the forces
- c) Position of the path taken
- d) None of the above

ANSWER- (a)

Q9 A boy throws a table tennis ball of mass 20g upwards with a velocity of $u_0 = 10\text{m/s}$ at an angle Θ_0 with the vertical. The wind imparts a horizontal force of 0.08 N, so that the ball returns to the starting point. Then, the angle Θ_0 must be such that, $\tan \Theta_0$ must be such that, $\tan \Theta_0$ is

- a) 0.2
- b) 0.4
- c) 2.5
- d) 1.2

ANSWER – (b)

Q10 A nutritionally wild type organism which does not require any additional growth supplement is known as:

- a) Holotype
- b) Autotroph
- c) Prototroph
- d) Phenotype

ANSWER – (c)