## Question Paper

## Subject: Science

Grade: $9^{\text {th }}$

## Set-5

| Q.N | Folder name \& Questio n Code | Topic | Question with Answer Option | Image (If Any) | Correct Answer (Option-A,B,C,D) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | $\begin{array}{\|l\|} \hline \text { 3_15 } \\ \text { Science } \\ 3659 \end{array}$ | Diversity In Living Organisms | Which of the given species has a darkcoloured body with hair on it, and usually less than 5 offspring on an average? | Some characteristics of a few species are given below. Study the table and answer the question. | B |
| Answer Options |  |  |  |  |  |
|  |  | Option A Mouse | Option B Porcupine | Option C Barn swallow | Option D Chicken |



| Answer Options |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  <br> B. |  |  |
| 4 | 2_9 <br> Science <br> 6140 | Diversity In Living Organisms | Which of these is a valid conclusion that can be drawn from the chart shown alongside? |  | B |
| Answer Options |  |  |  |  |  |
|  |  | Option A No land animal can achieve a speed higher than any flying animal. | Option B <br> A dragonfly can travel faster than a race horse. | Option C <br> A race horse travels much faster with a rider than without. | Option D A human being would beat an elephant in a race. |



| 6 | $\begin{aligned} & \hline 4 \_24 \\ & \text { Science } \\ & 10386 \end{aligned}$ | Motion | Which of these maps is better to use if we want to get a rough estimate of how far Alaska (a state in north-western USA) is, from Japan? |  | B |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Answer Options |  |  |  |  |  |
|  |  | Option A <br> Map $P$ is better. | Option B Map Q is better. | Option C <br> Maps $P$ and $Q$ are equally good. | Option D <br> Neither map P nor Q may be used. |
| 7 | 2_9 <br> Science $6142$ | Motion <br> *(General topic for logical reasoning) | Blocks arranged like these are used to train robots to perform everyday tasks, and test their recognition skills. In the arrangement alongside, if a robot is instructed to 'bring the cuboid having the same colour as the pyramid inside the open box', which block should it bring? |  | C |
| Answer Options |  |  |  |  |  |



| Answer Options |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | 3_15 <br> Science <br> 3661 | Motion | When a car turns, its front wheels do not turn by the same amount. In order that the car turn around a common point, the wheel on the side to which the car is turning, turns more than the other. Which of these correctly shows the alignment of a car's wheels when it is turning to its right? |  | A |
| Answer Options |  |  |  |  |  |
|  |  |  | Option B | Option C |  |
| 11 | $3 \_15$ Science 3664 | Motion | A hunter sees a fish which is swimming in clear water as shown in the figure. To hit the fish, he should take aim adjusting for the fish's motion and $\qquad$ |  | B |
| Answer Options |  |  |  |  |  |


|  |  | Option A exactly at the depth the fish appears to him to be. | Option B <br> a little below where the fish appears to him to be. | Option C <br> a little above where the fish appears to him to be. | Option D at the fish's eye, exactly where it appears to be. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | 3_16 <br> Science <br> 2535 | MOTION | The shortest airline route from Moscow in Russia to Montreal in Canada is likely to be which of these shown on the world map? |  | D |
| Answer Options |  |  |  |  |  |
|  |  | Option A A | Option B <br> B | $\begin{aligned} & \text { Option C } \\ & \text { C } \end{aligned}$ | $\begin{aligned} & \text { Option D } \\ & \text { D } \end{aligned}$ |
| 13 | 3_16 <br> Science <br> 2539 | MOTION | A truck is carrying a water tank which has two taps on either side as shown in the figure. The taps are opened as the truck starts moving in the circular path at a constant speed. As the truck just completes the circle, the water in the tank runs out completely. What will be the shape of the water trail on the ground if seen from the top? |  | B |


| Answer Options |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Option A <br> A | Option B <br> B | Option C <br> c | Option D <br> D |
| 14 | 2_9 <br> Science <br> 6133 | MOTION | The unit of distance is metres. The unit of time is seconds. Hence the speed of a person who walks 100 metres in 50 seconds is 100 m divided by 50 seconds which is $2 \mathrm{~m} / \mathrm{s}$ or 2 metres per second.To find out the speed of gas moving through a large gas pipeline, an oil company measures that 10 kg of gas flows every 10 seconds. The mass flow rate is obtained by dividing the distance covered by the time taken to cover it. Then, the mass flow rate in the pipeline is expressed in the unit --- |  | B |
| Answer Options |  |  |  |  |  |
|  |  | Option A $\mathrm{m} / \mathrm{s}$ | Option B kg/s | Option C $\mathrm{Kg} / \mathrm{m}$ | $\begin{aligned} & \text { Option D } \\ & \text { s/kg } \end{aligned}$ |
| 15 | 2_9 <br> Science <br> 5083 | MOTION | The rate of growth of hair on the human head has been estimated as about 0.44 mm per day. Assuming that this rate is uniform, about what LENGTH of hair (considering just 1 strand) would a normal male adult cut in 20 years? |  | B |



