

International Olympiad of Science





Silverzone Foundation New Delhi, India

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	CLASS 9th SAMI	PLE (QUESTIONS			
	The Actual Question Paper Contains 40 Question	ns. The	Duration of the Test Paper is 50 Minutes.			
1.	Which one of the following is the acrocentric chromosome? $A \xrightarrow{B} C \xrightarrow{A} D$	7.	 Which of the following is not a characteristic of pure substances? (A) A pure substance contains only one type of particles. (B) A pure substance has definite composition. (C) A pure substance may be homogeneous or heterogeneous. (D) A pure substance has definite melting and boiling point. 			
	(A) A (B) B (C) C (D) D	8.	Fill in the blanks with the correct combination of terms.			
2.	Which one of the following graphs shows uniform acceleration? (A) $\frac{1}{2}$ (B) $\frac{1}{2}$		The disease which lasts for _P periods of time is calledQdiseaseR and _S are its two examples.A.P-very long, Q-acute, R-common cold, S-dysenteryB.P-very short, Q-acute, R-common cold, S-dysentery			
	Time Time		C. P-very short, Q-acute, R-cancer, S-dysenteryD. P-very long, Q-chronic, R-common cold, S-dysentery			
	(C) \overrightarrow{B} (D) \overrightarrow{B} Time	9.	Which one of the following shows that cathode rays are negatively charged particles?			
3.	Choose the isobar from the following.		(A) Cathode rays produce greenish light on striking the wall of discharge tube			
	(A) ${}^{6}C_{12}$ and ${}^{6}C_{14}$ (B) ${}^{92}U_{235}$ and ${}^{92}C_{238}$		(B) Cathode rays cast shadows of the objects placed in			
	(C) ${}^{1}\text{H}_{1} \text{ and } {}^{1}\text{C}_{2}$ (D) ${}^{18}\text{Ar}_{40} \text{ and } {}^{20}\text{Ca}_{40}$		their path(C) Cathode rays move the blades of a paddle wheel			
4.	Humans are classified according to the following hierarchy: Animalia \rightarrow Chordata \rightarrow Mammalia \rightarrow Primates \rightarrow		placed in their path(D) Cathode rays are deflected towards the positive plate of an electric field			
	Hominidae \rightarrow Homo \rightarrow Sapiens	10.	Classify the following materials into elements,			
	Which category is represented by Primates in the above hierarchy?		compounds and mixtures: Methane, granite, blood, sodium, silver, iron, sugar			
	(A) Order(B) Genus(C) Kingdom(D) Family		(A) Elements: Sodium and silver Compounds: Methane, Granite, sugar			
5.	What is the number of water molecules contained in a drop of water weighing 0.12 g?		Mixtures: Iron, blood (B) Elements: Sodium, silver, iron,			
	(A) 2.007×10^{21} (B) 4.014×10^{21} (C) 2.007×10^{22} (D) 4.014×10^{22}		Compounds: Methane, sugar Mixtures: Granite, blood (C) Elements: Sodium, silver, iron,			
6.	Calculate the number of molecules of chloroform(CHCl3)weighing 0.0239 g (H =1, C=12, Cl=35.5).(A) 0.2046×10^{17} (B) 1.2046×10^{20} (C) 2.2046×10^{22} (D) 3.1046×10^{21}		 Compounds: Methane, blood Mixtures: Granite, sugar (D) Elements: Methane, silver, iron, Compounds: Sodium, sugar Mixtures: Granite, blood 			

ANSWERS											
1. (B)	2. (A)	3. (D)	4. (A)	5. (B)	6. (B)	7. (C)	8. (B)	9. (D)	10. (B)		