

Model Test for Selection of Pakistani Students Delegate to
Asian Science Camp

1. What causes an apple on a tree fall onto the ground?
 - A. Weight of apple
 - B. Gravity
 - C. Aging of apple
2. What is the physical explanation of inertia?
3. Write names of two cities/countries where Asian Science Camp was held in the past.
4. What is the spectrum of light?
5. Write name of an organic acid and an inorganic acid?
6. Which elements are essential for life?
7. Write colors of the following aqueous solutions?
 - A. $\text{Cr}_2(\text{SO}_4)_3$
 - B. NiSO_4
 - C. ZnSO_4
 - D. CuSO_4
8. Kinetic energy of _____ molecules is the highest.
 - A. Gas
 - B. Solid
 - C. Liquid
9. Tick the appropriate.
Current is the flow of _____.
 - A. Electrons
 - B. Protons
 - C. Neutrons
10. What happens when a thing moves at speed higher than the speed of light?
11. What is specific about Crystals?
12. What is the rest mass energy of an electron?
13. What are isotopes?
14. What is an electrical Watt?
15. What entities can penetrate into an atomic structure?
16. What is the size of an atom?
17. What is Avogadro's number?

18. What are neurons?
19. Mention and discuss inventions of Muslim Scientists in Physics, Mathematics, Chemistry, Biology and Medicine and Earth Sciences / Cosmology.
20. Mention and discuss inventions of some non-Muslim scientists in Physics, Chemistry and Biology during the period 1900 – 2013.
21. What is a vector quantity?
22. What is mathematical significance of i ?
23. Can air be trapped inside an atomic structure?
24. Can air be trapped inside intra-molecular spaces?
25. What is Entropy and Enthalpy of a substance?
26. Write a brief on scientific achievements of Dr. Abdus Salam (Late) the only Nobel Laureate from Pakistan.
27. Why u want to attend Asian Science Camp?