

By linking humans, animals and the environment, “One Health” is an integrated approach to sustainably balance and optimize the health of people, animals and ecosystems, by which enables providing a better spectrum of human life – from prevention to detection, preparedness, response and management – and contribute to global health security. Indeed, the collaboration across sectors and disciplines, including health, food, water, energy and environmental sciences, ought to closely link and interdependent

The approach can be applied at the community, subnational, national, regional and global levels, and relies on shared and effective governance, communication, collaboration and coordination. Having the One Health approach in place makes it easier for people to better understand the co-benefits, risks, trade-offs and opportunities to advance equitable and holistic solutions.

According to the above concept, please address the following challenges:

1. The emergence of the SARS-CoV-2 virus that caused COVID-19 has underlined the need to strengthen the One Health approach, with a greater emphasis on connections to animal health and the environment. Attempting to save money by neglecting environmental protection, emergency preparedness, health systems, water and sanitation infrastructure, and social safety nets has proven to be a false economy, and the bill is now being paid many times over. Please address the critical gaps in One Health implementation for future pandemics and management in the aspects of information, research, practice and economics (30 pts).
2. Access to sufficient amounts of safe and nutritious food is key to sustaining life and promoting good health. Unsafe food containing harmful bacteria, viruses, parasites or chemical substances can cause more than 200 different diseases – ranging from diarrhea to cancers. Please address what is the link among food safety, nutrition and food security (30 pts).
3. The world faces an increasing number of emergencies with health consequences from all hazards, including infectious disease outbreaks, conflicts, natural disasters, chemical or radio-nuclear spills and food contamination. Many emergencies can be complex, with more than one cause, and can have significant public health, social, economic and political impacts. Please address how to deal with and respond the emergency by proposing an operational protocol (20 pts).
4. Please use the “One Health” concept to further address your idea to engage with and respond to Aging and Health issue given that All countries face major challenges to ensure that their health and social systems are ready to make the most of this demographic shift (20 pts).