

**Punjab PCS Main Exam 2013**

**General Studies Paper IV**

**SET I**

- 1. What do you understand by “Google Glass” and explain its applications. (200 words)**
- 2. What do you understand by “STAP cells”? Why it was in news recently? (200 words)**
- 3. What are the MUFA, PUFA and Omega-3. What is the significance and issues related with them. (200 words)**
- 4. What do you understand by “Salvage therapy”? Why it was in news recently? (200 words)**
- 5. What are Neutrinos? Why is there a keen interest on them? Elucidate. (200 Words)**
- 6. What is 3-D printing? What are the possible applications of 3-D printing in the health and defence sector? Explain (200 Words)**
- 7. What do you understand by DNA sequencing? How did it revolutionize genomic research? (200 Words)**
- 8. Are there any productive non-military uses of “Drones”? Do you think it would be safe to operate them for private uses? Explain. (200 Words)**
- 9. What are microplastics? Examine its effects on marine organisms. (200 Words)**
- 10. What do you understand by biomaterials? What are their uses? (200 Words)**
- 11. (a) What is “biosafety”? How has Indian government addressed this issue? (100 Words)**  
**(b) Write a note on Cryosphere (100 Words)**

**12.write short notes on the following:**

**(a)Beidou satellite network (100 Words)**

**(b) The Indian Seismic and GNSS Network (ISGN) Project (100 Words)**

**13.(a) Examine the finding of a recent study on the impact of Oxytocin on children with Autism. (100 words).**

**(b) Analyze the features of Human Immunodeficiency Virus Acquired Immune Deficiency Syndrome (Prevention and Control) Bill, 2014. (100 words)**

**14.write short notes on the following:**

**(a)Cartridge-based nucleic acid amplification testing (CBNAAT) equipment (100 Words)**

**(b)Improving Access to Affordable & Quality TB Tests (IPAQT) (200 Words)**

**15.(a)Why has internet governance drawn lot of attention lately? In your opinion, do you think countries need a centralized watchdog to look after the issues concerned with internet governance or it should be left to individual discretion of the countries? Discuss . (100 Words)**

**(b)Write a note on the Rhino DNA Indexing System (RhoDIS). (100 words)**

**Two Questions on Decision Making & Problem solving: (Q16 & 17)**

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