Mains Notes for IAS and PCS

GS-3 Science and Technology

Last year Question papers

1. What is allelopathy? Discuss its role in major cropping systems of irrigated agriculture.

(Civil Services Examination 2016)

2. Discuss India's achievements in the field of Space Science and Technology. How the application of this technology has helped India in its socio – economic development?

(Civil Services Examination 2016)

- 3. Why is nanotechnology one of the key technologies of the 21st century? Describe the salient features of Indian Government's Mission on Nanoscience and Technology and the scope of its application in the development process of the country. (Civil Services Examination 2016)
- 4. What do you understand by 'Standard Positioning Systems' and 'Precision Positioning Systems' in the GPS Era? Discuss the advantages that India perceives from its ambitious IRNSS programme employing just seven satellites. (Civil Services Examination 2015)
- 5. What are the areas of prohibitive labour that can be sustainably managed by robots? Discuss the initiatives that can propel research in premier research institutes for substantive and gainful innovation.

(Civil Services Examination 2015)

- 6. India's Traditional Knowledge Digital Library (TKDL), which has a database containing formatted information on more than 2 million medicinal formulations is providing a powerful weapon in the country's fight against erroneous patents. Discuss the pros and cons of making this database publicly available under open source licensing. (Civil Services Examination 2015)
- 7. Discus the advantages and security implications of cloud hosting of servers vis -a vis in house machine based hosting for government businesses. (Civil Services Examination 2015)
- 8. Scientific research in Indian universities is declining, because a career in science is not as attractive as are business professions, engineering or administration and the universities are becoming consumer oriented. Critically comment.

 (Civil Services Examination 2014)
- 9. Can overuse and free availability of anti biotics without doctor's prescription, be contributors to the emergence of drug resistance diseases in India? What are the available mechanisms for monitoring and control? Critically discuss the various issue involved.

(Civil Services Examination 2014)

- 10. What do you understand by Fixed dose Drug Combinations (FDCs)? Discuss their merits and demerits. (Civil Services Examination 2013)
- 11. What do you understand by Umpire Decision Review System (UDRS) in cricket? Discuss its various components. Explain how silicon tape on the edge of a bat may fool the system?

(Civil Services Examination 2013)

- 12. What is a digital signature? What does its authentication mean? Give various salient built in features of a digital signature? (Civil Services Examination 2013)
- 13. How does 3D printing technology work? List out the advantages and disadvantages of the technology? (Civil Services Examination 2013)
- 14. What is a FRP composite material? How are they manufactured? Discuss their applications in aviation and automobile industries. (Civil Services Examination 2013)
- 15. What do you understand by Run of River hydroelectricity projects? How is it different from any other hydroelectricity project? (Civil Services Examination 2013)

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16. The human population is slated to grow to 9 billion by 2050. In this context, many scientists predict that plant genomics would play a critical role in keeping out hunger and preserving the environment. Explain. (Civil Services Examination 2012)

17. What do you understand by the term "Multi – Drug Resistant Tuberculosis" (MDR – TB)? What measures would you advocate for its containment and what are the implications of its spread in the community? (Civil Services Examination 2012)

18. Many food items contain "trans fats". What do you understand by this term? Which Indian food items contain trans fats? What are the implications of trans fats on human health?

(Civil Services Examination 2012)

19. Comment on the recent launching of the National Mission on Libraries (NML).

(Civil Services Examination 2012)

20. You are stationed in a small district town in the plains of Northern India, the summer has been severe. Suddenly, a colleague, who had been out since morning, returns to the office complaining of headache, restlessness and confusion. Shortly, he becomes unconscious. His body temperature is 40°C. What first aid steps would you take to revive him? (Civil Services Examination 2012)

21. Comment on the significance of the SPOT – 6 rocket launch for ISRO.

(Civil Services Examination 2012)

- 22. In the context of Assisted Reproductive Technologies (ART), India has emerged as a hub of commercial surrogacy. What key biological, legal and ethical issues merit consideration while farming the regulation to govern surrogacy in India? (Civil Services Examination 2012)
- 23. Despite strict prohibitory regulations, 'doping' has become increasingly common amongst athletes. Name five commonly used performance enhancing drugs. What are the risks associated with their use?

(Civil Services Examination 2012)

24. The safe landing of the 'Curiosity' Rover under NASA's space programme has sparked many possibilities. What are those and how could humankind benefit from them?

(Civil Services Examination 2012)

- 25. The Sequoia supercomputer was launched this year. What are its specific features and what is its purpose? (Civil Services Examination 2012)
- 26. Comment on Arsenic Bug and the significance of its discovery.

(Civil Services Examination 2011)

27. Comment in not more than 50 words on Kaveri K – 10 aero – engine.

(Civil Services Examination 2011)

28. Comment on concentrated solar energy and photovoltaic solar energy.

(Civil Services Examination 2011)

29. Comment (in not more than 50 words) on Nisarga – Runa technology of BARC.

(Civil Services Examination 2011)

30. Comment (in about 50 words) on the 'Kessler Syndrome' with reference to space debris.

(Civil Services Examination 2011)

- 31. Comment (in about 50 words) on INSPIRE Programme of the Department of Science and Technology. (Civil Services Examination 2011)
- 32. What is SAGA 220 and why it had been in the news recently? (Your answer should be in a sentence or two only). (Civil Services Examination 2011)
- 33. What is Gliese 581 and why it had been in the news recently? (Your answer should be in a sentence or two only). (Civil Services Examination 2011)
- 34. Comment (in not more than 50 words) on the Telecommunications Ministry's proposed Spectrum Management Commission. (Civil Services Examination 2011)
- 35. Comment in not more than 50 words on 'E governance' initiatives by the Union Public Service Commission (UPSC). (Civil Services Examination 2011)

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36. Differentiate between CD (Compact Disc), DVD (Digital Versatile Disc) and Blu – ray Disc. (Civil Services Examination 2011) 37. Comment (in about 50 words) on Analog, Hybrid and IP systems in CCTV technology. (Civil Services Examination 2011) (Civil Services Examination 2011) 38. Comment on F – 22 Raptor Aircraft. 39. What is Operation Shady Rat and why it had been in the news recently? (Civil Services Examination 2011) 40. What is K computer and why it had been in the news recently? (Civil Services Examination 2011) 41. What is Tiangong -1 and why it had been in the news recently? (Civil Services Examination 2011) 42. Comment (in not more than 50 words) on Molecular Breast Imaging (MBI) technology. (Civil Services Examination 2011) 43. What is MABEL Robot and why it had been in the news recently? (Civil Services Examination 2011) 44. Comment on various applications of Kevlar. (Civil Services Examination 2011) 45. Differentiate between 'spin drying' and 'tumble drying' technology with reference to the drying of washed clothes. (Civil Services Examination 2011) 46. Comment on Omega – 3 fatty acids. (Civil Services Examination 2011) 47. Comment on Designer Poultry Eggs. (Civil Services Examination 2011) 48. What is Saturn's Titan and why it had been in the news recently? (Civil Services Examination 2011) 49. What is Opera detector at Gran Sasso and why it had been in the news recently? (Civil Services Examination 2011) (Civil Services Examination 2010) 50. Comment on 'CARTOSAT 2B'. 51. Write a brief note on 'Chandrayaan II'. (Civil Services Examination 2010) 52. Comment on various generations of Mobile Phone Technology. (Civil Services Examination 2010) 53. What is 'cloud computing'? Bring out its essential features and list its advantages and limitations. (Civil Services Examination 2010) 54. Explain and differentiate among 'Plasma', 'LCD' and 'LED' television technologies. (Civil Services Examination 2010) (Civil Services Examination 2010) 55. Comment 'on Ginkgo biloba'. 56. Comment on MRSA infection. (Civil Services Examination 2010) 57. Discuss the applications of nanotechnology in the health care sector. (Civil Services Examination 2010) 58. What is Predator drones and why have it been in the news recently? (Civil Services Examination 2010) 59. Write a brief note on Agni V. (Civil Services Examination 2010) 60. What is Blue Gene project and why it had been in the news recently? (Civil Services Examination 2010) 61. What is Wolfram Alpha and why it had been in the news recently? (Civil Services Examination 2010) 62. Assess the contributions made by the Indian Council of Agricultural Research (ICAR) in agricultural development. (Civil Services Examination 2010) 63. What is ACTN 3 gene and why it had been in the news recently? (Civil Services Examination 2010) 64. Who is Craig Venter and why he had been in the new recently? (Civil Services Examination 2010)

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65. Comment on the present status of the Biological Weapons Convention (BWC). What important		
issues, do you think, need to be taken up at the seventh review conference of the BWC scheduled for		
2011? (Civil Services Examination 2010)		
66. Comment (in not more than 50 words) on HRP – 2M Comme		
	ervices Examination 2010)	
67. What is 'Dreamliner' Aircraft and why it had been in the nev		
69 Comment on Super Absorbent Delumers (CAD)	(Civil Services Examination 2010)	
68. Comment on Super Absorbent Polymers (SAP).	(Civil Services Examination 2010)	
69. Comment on Maglev vehicles.	(Civil Services Examination 2010)	
70. Write brief note on PFCs and 'liquid breathing'. 71. Write brief note on Artificial Sun.	(Civil Services Examination 2009) (Civil Services Examination 2009)	
72. Write about the following in not more than 30 words each.	(Civil Services Examination 2009)	
73. Write a brief note in about 30 words on 'Extra Vehicular Act		
73. Write a brief note in about 30 words on Extra venicular Act	(Civil Services Examination 2009)	
74. What is the 'Hubble Space Telescope'? How many Servicing		
for it?	(Civil Services Examination 2009)	
75. Trace the significant steps in the evolution of television in th		
73. Trace the significant steps in the evolution of television in the	(Civil Services Examination 2009)	
76. Define 'Optical Frequency Comb'. Suggest at least three app		
70. Beine Optical Frequency Comb . Buggest at reast times upp	(Civil Services Examination 2009)	
77. Why is Tele – medicine important for country like India?	(Civil Services Examination 2009)	
78. Write brief note in about 30 words: The 'P – 8A Poseidon'.	(Civil Services Examination 2009)	
79. Write brief note on 'Vegetable Gold'.	(Civil Services Examination 2009)	
80. Write a brief note in about 30 words: Biometric ATMs.	(Civil Services Examination 2009)	
81. Explain DNA Finger Printing and its utility.	(Civil Services Examination 2009)	
82. Define 'Bioinformatics'. How does it work? What are its ma		
	(Civil Services Examination 2009)	
83. Write about Green Fluorescence Protein (GEP) and its applied		
	(Civil Services Examination 2009)	
84. What do you understand by Biosignatures? Discuss briefly.		
85. What is 'Nanotech'? Give a brief account of its basic concep		
	(Civil Services Examination 2009)	
86. What is 'Graphene'? Mention at least three of its application	s. (Civil Services Examination 2009)	
87. Write short note on nuclear submarine 'Arihant'.	(Civil Services Examination 2009)	
88. What do you know about Indian National Satellite Systems?	Describe its important features.	
	(Civil Services Examination 2008	
89. Write brief note (in about 20 words) on TIFAC.	(Civil Services Examination 2008)	
90. Explain Wi – Fi.	(Civil Services Examination 2008)	
91. Explain 'Internet Protocol Television (IPTV)'.	(Civil Services Examination 2008)	
92. Write brief note on Aspartame.	(Civil Services Examination 2008)	
93. Write brief note on 'Gene doping'.	(Civil Services Examination 2008)	
94. Write about India's LCA (Tejas).	(Civil Services Examination 2008)	
95. Write brief note on Sappan.	(Civil Services Examination 2008)	
96. In what way 'Medical Bio – technology' and 'Bio – engineer		
development of India?	(Civil Services Examination 2008)	
97. Explain the components of Robots.	(Civil Services Examination 2008)	
98. Write brief note (in about 20 words each) on Copyright and Trademark.		
	(Civil Services Examination 2008)	
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99. Explain Spintronics.	(Civil Services Examination 2008)
100. What are the alternative fuels available for the transport sec	
advantages and disadvantages in their utilization.	(Civil Services Examination 2007)
101. Discuss the Missile Technology Initiative undertaken by Go	overnment of India.
,	(Civil Services Examination 2007)
102. What is Stealth Technology?	(Civil Services Examination 2007)
103. What is compute architecture?	(Civil Services Examination 2007)
104. What is Root kit?	(Civil Services Examination 2007)
105. What do the following stand for?	(Civil Services Examination 2007)
106. What is malware?	(Civil Services Examination 2007)
107. What is firewall?	(Civil Services Examination 2007)
108. Write a short note on Genome.	(Civil Services Examination 2007)
109. Explain the objectives and the current achievements of Hur	
	(Civil Services Examination 2007)
110. Write brief note on IAEA.	(Civil Services Examination 2007)
111. Write brief note on BIMSTEC.	(Civil Services Examination 2007)
112. Who are called 'Hackers' in computer world?	(Civil Services Examination 2006)
113. Write a short note on 'Artificial Intelligence'.	(Civil Services Examination 2006)
114. Explain what is Thin Film Memory in computers?	(Civil Services Examination 2006)
115. Expand the following.	(Civil Services Examination 2006)
> CAD	
> CAM	
> CIM	
 117. What do you understand by optical computing? Why is optibetter performance than that of electronic computing? 118. What are normal osmosis and reverse osmosis? Why has re today? 119. Write a note on 'Bio – refinery versus Fossil fuels'. 120. Explain how Nanoscience and Nanotechnology have revoluted. 121. Write brief note on INTELSAT. 122. Write short note on Genetically modified seeds in about 20 	(Civil Services Examination 2006) verse osmosis become popular in India (Civil Services Examination 2006) (Civil Services Examination 2006) attionised modern technology? (Civil Services Examination 2006) (Civil Services Examination 2006)
122. Write short note on Genericany modified seeds in about 20	(Civil Services Examination 2006)
123. Write brief note on Sethusamudram Project.	(Civil Services Examination 2005)
124. Detail the salient features of project 'Anthareeksha'.	(Civil Services Examination 2005)
125. Write note on use of Information Technology in health man	
<i>S</i> , and an an	(Civil Services Examination 2005)
126. Bring out the prospects of development of alternative energ	
	(Civil Services Examination 2005)
127. Why is hydrogen being acclaimed as the fuel of the future?	
128. Write about Bluetooth.	(Civil Services Examination 2005)
129. What is Wikipedia?	(Civil Services Examination 2005)
130. What is avatar?	(Civil Services Examination 2005)
131. What do the following stand for?	(Civil Services Examination 2005)
> XML	
> MASER	

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> SECAM	
> TIPS	
132. What is VIRUS?	(Civil Services Examination 2005)
	(Civil Services Examination 2005)
134. What is the therapeutic cloning? Describe briefly the method	•
	(Civil Services Examination 2005)
135. What is digital convergence? Examine its implications for m	
	(Civil Services Examination 2004)
CD – ROM	(
> USB	
> ITES	
> FORTRAN	
140 What's a UDI 9	(Ct. 21 C 2004)
	(Civil Services Examination 2004)
141. What is Biotechnology? Discuss the important applications of	•
	(Civil Services Examination 2004)
•	(Civil Services Examination 2004)
143. What is 'Superconductivity'? Give its uses and applications.	
	(Civil Services Examination 2004)
145. In which year and by which countries was International Space	
countries are participating in this programme? What are the unique	
	(Civil Services Examination 2003)
146. What is interactive television? What special advantages are of a typical VOD system? Which feature file	
are the components of a typical VOD system? Which feature film	
1	(Civil Services Examination 2003)
	(Civil Services Examination 2003)
> POSIX	
➤ ERROM	
➤ MODEM	
➤ COBOL	
•	(Civil Services Examination 2003)
149. What is an operating system? List the basic services provide	ed by an operating system.
	(Civil Services Examination 2003)
*	(Civil Services Examination 2003)
• •	(Civil Services Examination 2003)
152. Discuss the elements of 'Frozen Semen Technology'. What	
<u>*</u>	(Civil Services Examination 2003)
153. Discuss in detail "The Internet Telephony as an alternative".	(Civil Services Examination 2002)
154. What is Piracy?	(Civil Services Examination 2002)
155. What do the following stand for?	(Civil Services Examination 2002)
> HTML	

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> FTP	
> MELOPS	
> PLANIT	
156. What is multimedia?	(Civil Corving Evamination 2002)
150. What is firewall in Computer Language?	(Civil Services Examination 2002) (Civil Services Examination 2002)
157. What is the wait in Computer Language? 158. What is a digital camera?	(Civil Services Examination 2002)
158. What is a digital camera? 159. What is Human Cloning? Is it dangerous or beneficial? Dis	
2002)	cuss. (Civil Services Examination
160. "Biotechnology boom may pave a golden path for India". I	Disauce
100. Bioleciniology boom may pave a golden path for mula . I	(Civil Services Examination 2002)
161 Determine the utility of Direct to Home in broadcasting ave	
161. Determine the utility of Direct to Home in broadcasting sys	(Civil Services Examination 2001)
162. Discuss the significance of GSLV in space research.	(Civil Services Examination 2001)
162. Discuss the significance of GSL v in space research. 163. What is Cryogenic Engine? Discuss its significance in India	
103. What is Cryogenic Engine: Discuss its significance in mul-	(Civil Services Examination 2001)
164. What is fibre optics? What advantages does it offer in telec	
104. What is fibre optics? What advantages does it offer in telec	(Civil Services Examination 2001)
165. What is a WAP – enabled phone?	(Civil Services Examination 2001)
166. What do the following stand for?	(Civil Services Examination 2001)
167. What is 'digital signature' and what is it used for?	(Civil Services Examination 2001)
168. What is 'Ethernet' and what is it used for?	(Civil Services Examination 2001) (Civil Services Examination 2001)
169. What is 'handshake' in computer language?	(Civil Services Examination 2001)
170. What is randshake in computer language? 170. What is vermicomposing? Discuss its importance in the Inc.	
170. What is verificomposing? Discuss its importance in the inc	(Civil Services Examination 2001)
171. What are stem cells? Why have they been in the news received	
171. What are stelli cells: Why have they been in the news recei	(Civil Services Examination 2001)
172. Bring out the observations of the parliamentary system of g	
172. Dring out the observations of the partialitentary system of g	(Civil Services Examination 2001)
173. Differentiate and state the significance of Pokharan I and P	
175. Differentiate and state the significance of Formaran Fand F	(Civil Services Examination 2000)
174. What is the significance of the geostationary orbit? What w	
crowded?	(Civil Services Examination 2000)
175. India is rapidly emerging as an Information Technology (IT	
the growth of this sector in Indian economy. What role can publ	
growth prospects in this Sector?	(Civil Services Examination 2000)
176. Why is the HIV considered so dangerous? Why has the spr	
contain, especially in the poorer countries of the world?	(Civil Services Examination 2000)
177. Differentiate between Explosion and Implosion.	(Civil Services Examination 2000)
177. Directificate between Explosion and Implosion. 178. What do the following stand for?	(Civil Services Examination 2000)
> MARV	(CI, II Set (1005 L'Adminiation 2000)
> MIRV	
> ICBM	

(Civil Services Examination 2000)

(Civil Services Examination 2000)

(Civil Services Examination 2000)

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179. How does a computer virus destroy data?

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181. What do the following stand for?

180. What is spamming?

> HTTP

▶ CPU		
➤ ROM		
► BIOS		
, B100		
182. What does the 'clock speed' of a computer signify?	(Civil Services Examination 2000)	
183. How transgenic plants are different from hybrid plants and		
agriculture? Elaborate.	(Civil Services Examination 2000)	
184. Discuss Human Genome.	(Civil Services Examination 2000)	
185. Where is Vikram Sarabhai Space Centre located?	(Civil Services Examination 2000) (Civil Services Examination 1999)	
186. What does GMRT stand for?	(Civil Services Examination 1999)	
187. What is Global Positioning System?	(Civil Services Examination 1999)	
188. From where was the most advanced commercial satellite of		
166. From where was the most advanced commercial satemite of		
190 What is Chandre? For what numbers it has been launched?	(Civil Services Examination 1999)	
189. What is Chandra? For what purpose it has been launched?		
190. Where is the Indira Gandhi Centre for Atomic Research loc		
101 WH . 1 .1 DDMAG . 1 C 0	(Civil Services Examination 1999)	
191. What do the INMAS stands for?	(Civil Services Examination 1999)	
192. What is a fast breeder reactor? Comment on its suitability in		
	(Civil Services Examination 1999)	
193. What is Al Khalid? What are its features?	(Civil Services Examination 1999)	
194. What is a computer virus? How does it infect systems?	(Civil Services Examination 1999)	
195. What is a modem? What is it used for?	(Civil Services Examination 1999)	
196. Where is the Centre for Cellular and Molecular Biology loc		
	(Civil Services Examination 1999)	
197. What are Biosensors? Describe their uses.	(Civil Services Examination 1999)	
198. What is the Human Genome Project? Discuss briefly its imp	portance.	
	(Civil Services Examination 1999)	
199. What do the NISSAT stand for?	(Civil Services Examination 1999)	
200. State the importance of Antrix Corporation.	(Civil Services Examination 1998)	
201. Explain 'Planet B'.	(Civil Services Examination 1998)	
202. What is Remote Sensing? What are its uses especially in the	e Indian context?	
	(Civil Services Examination 1998)	
203. What is the difference between E – mail and Fax?	(Civil Services Examination 1998)	
204. Give the functions of interferons.	(Civil Services Examination 1998)	
205. What do the C – DAC, ICMR and TRAI stand for?	(Civil Services Examination 1998)	
206. Why is website getting popular?	(Civil Services Examination 1998)	
207. Explain 'Netizens'.	(Civil Services Examination 1998)	
208. How does the development of Pinaka benefit India?	(Civil Services Examination 1998)	
209. Explain Shehab – 3.	(Civil Services Examination 1998)	
210. Describe the development of Supercomputers in India.	(Civil Services Examination 1998)	
211. Why are transgenic organisms important?	(Civil Services Examination 1998)	
212. What is genetic engineering? Why is it getting increasingly		
(Civil Services Examination 1998)		
213. Why was a variant of Basmati rice in news recently?	(Civil Services Examination 1998)	
214. What are enzymes? What is their importance?	(Civil Services Examination 1998)	
215. What are optical fibres? What are their advantages?	(Civil Services Examination 1998)	
216. What is the difference between a comet and a meteor?	(Civil Services Examination 1997)	
217 YVI 4 D 1 C 1 D 1 C 1 D 1 C 1	(======================================	

217. What was the Pathfinder Mission? What were its main findings?

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	(Civil Services Examination 1997)		
218. What do the TIFR, DRDO and NEERI stand for?	(Civil Services Examination 1997)		
219. What is 'E – mail'?	(Civil Services Examination 1997)		
220. What was the controversy about Prithvi?	(Civil Services Examination 1997)		
221. Why is Agni project important for India?	(Civil Services Examination 1997)		
222. What is Tissue Culture?	(Civil Services Examination 1997)		
223. What are Quasars?	(Civil Services Examination 1997)		
224. What are fullerenes? Why are they important?	(Civil Services Examination 1997)		
225. What is Polio? Explain its few features and how it can be prevented?			
	(Civil Services Examination 1997)		
226. What is 'Mad cow disease'?	(Civil Services Examination 1997)		
227. How has India's Nuclear Programme contributed to the economic and defence requirements of the			
country? (Civi	il Services Examination 1997)		

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