

R. C. Reddy IAS Study Circle

Civil Services Mains Test Series - 2016

*Time
Allowed : One
and half Hours*

G.S. Paper - III
Part - 01
(Science & Technology)

*Maximum
Marks : 125*

QUESTION PAPER SPECIFIC INSTRUCTIONS

Please read each of the following instructions carefully before attempting questions :

- *There are **TEN** questions printed in **ENGLISH**.*
- *All the questions are compulsory.*
- *The number of marks carried by a question is indicated against it.*
- *Answers must be written in the medium authorized in the Admission Certificate. No marks will be given for answers written in a medium other than the authorized one.*
- *Word limit in questions, wherever specified, should be adhered to.*
- *Contents of the answers are more important than their length. All questions carry equal marks.*
- *Any page or portion of the page left blank in the Answer Booklet must be clearly struck off*
- *Number the additional sheets and organise them before you give the booklet to invigilator*

- Q. 1 Recently, Tata Motors unveiled "Brabo", India's first indigenous industrial robot, which is expected to drive automation in the Industry. Discuss this issue of robots in industry in the context of massive unemployment in India. (12 1/2 marks / 250 words)
- Q. 2 Despite successful launches of Chandrayaan and Mangalyaan, ISRO is not able to attract significant global space satellite launch business. Arianespace of France is a leader in Asia-Pacific region with 64% of the launch market. State the causes this issue and suggest remedial measures. (12 1/2 marks / 250 words)
- Q. 3 What is Net Neutrality? What are the arguments for and against Net Neutrality? Do you think Free Basics of Facebook violates Net Neutrality? If so, how? (12 1/2 marks / 250 words)
- Q. 4 Carbon Nanotubes (CNTs) are revolutionizing the fields such as healthcare, processor manufacturing, energy storage, molecular electronics, water filtration, structural engineering, fibers, fabrics and ceramics. What are the properties of CNTs that make them so unique? (12 1/2 marks / 250 words)
- Q. 5 Union Minister for Road Transport and Highways has recently stated that the government is planning to take the blending limit of ethanol in petrol to 22.5 per cent. What are the advantages and disadvantages of ethanol blending? What has been the progress achieved in EBP in India? (12 1/2 marks / 250 words)

- Q. 6 What is the significance of coral reefs? What do you understand by coral bleaching? Identify various threats to Coral reefs. (12 1/2 marks / 250 words)
- Q. 7 What are Intended National Determined Contributions (INDCs). Discuss the challenges faced by India in meeting its commitments under INDCs and suggest suitable measures in this regard. (12 1/2 marks / 250 words)
- Q. 8 Write a short notes on
(a) Importance of Environmental Impact Assessment (EIA) (6 marks / 150 words)
(b) Central Armed Police Forces (6 marks / 150 words)
- Q. 9 Even after six decades of independence, India's borders are still vulnerable to illegal immigration, terrorist infiltration, cattle smuggling, drug, human and arms trafficking. What are the factors coming in the way of proper management of our borders? (12 1/2 marks / 250 words)
- Q.10 "Cyberspace is evolving to become fifth potential theatre of war along with land, sea, air and space. However, there are several reasons that complicate the task of securing cyberspace compared to the other theatres of conflict." Explain. (12 1/2 marks / 250 words)