	Marks
Logical Reasoning	**Marks**

1. If 'I am young' is written as '2 4 7' and 'Sheetal is young' as '6 1 4' and 'I like Sheetal' as '5 7 6', then 'I' is written as: **1**
   (A) 4   (B) 2
   (C) 5   (D) 7

2. If 'him her them' is written as 'de ne ke' and 'do him why' as 'ne lk ir' and 'are they do' as 'sh fu lk', then 'do' is written as: **1**
   (A) ne   (B) ir
   (C) lk   (D) fu

3. If 'may august march' is written as 'hig lwm cao' and 'december july march' as 'sow lwm skz' and 'may april december' as 'kqx hig sow', then 'april' is written as: **1**
   (A) hig   (B) skz
   (C) kqx   (D) sow

Basic English   **Marks**

4. ------ he wouldn't wait at the door for ages, I put the key under the mat for my new flatmate, who had left home in a hurry, yesterday.   **1**
   (A) Hence   (B) But
   (C) In order that   (D) On grounds of

5. There are 20 species of wild roses in North America, -------- have prickly stems, pinnate leaves, and large flowers that usually smell sweetly.   **1**
   (A) both of which   (B) none of its
   (C) some of whom   (D) all of which

6. Frost occurs in valleys and on low grounds -------- on adjacent hills.   **1**
   (A) more frequently than   (B) as frequent as
   (C) so frequent that   (D) frequently enough

Environmental Awareness   **Marks**

7. Pandemic is a situation which effects: **1**
   (A) local area,   (B) local state
   (C) worldwide   (D) oceans

8. Which one of the chemicals is responsible for the reduction of ozone content of the atmosphere?   **1**
   (A) SO_2 (B) Chlorofluoro carbon
   (C) HCL   (D) Photochemical smog

9. Acid rains occur when atmosphere is heavily polluted with: **1**
   (A) CO, CO_2 (B) Smoke particles
   (C) Ozone   (D) SO_2 and NO_2

Design Sensitivity   **Marks**

10. Why is Statue Of Liberty green in colour ?   **1**
    (A) Because it is decaying   (B) Weathering of Copper
    (C) Oxidation Effects   (D) Because of Fungus

11. Following the pattern which will e the next in 10,11,20,21,30   **1**
    (A) 20   (B) 31
    (C) 30   (D) 29

12. If a colour is made darker by adding black, the result is called a .   1
(A) Shade   (B) Chroma
(C) Tone   (D) Tint

Visualization   **Marks**

13. Mr "X" and Mr "Y" are good friends. Mr "X" borrows 2 lakhs (without any interest) from Mr "Y" and   1
agrees to pay back 'Half' of the 'outstanding amount' every year. How many years Mr "X" takes to pay back
the entire money
(A) 16 Years   (B) 32 Years
(C) 64 Years   (D) None of the these

14. If the earth took 365 days to spin once about its own axis (as opposed to one day), then the consequence of   1
this would be that
(A) there would be no seasons   (B) one half of the earth would be in permanent darkness and the other in permanent daylight
(C) days and nights would be of equal length at all places on earth at all times   (D) the sun would be overhead everywhere on earth

15. Pappu's mummy leaves home for office at 8:05 am and returns home at 11:15 pm. In this period how many   1
times would Pappu see the minute and hour hands of their clock line up along a straight line
(A) 30   (B) 15
(C) 14   (D) 28

Drawing Test   **Marks**

16. **Design a Smart Desk with Integrated Technology for a Modern Workspace**   20
Design a smart desk intended for use in a professional or study environment. This desk should integrate
advanced technology and functional design to accommodate modern-day requirements such as productivity,
organization, and comfort. Provide a detailed technical drawing of your design, ensuring to include the
following aspects:
1.   Dimensions and Components: Specify the overall dimensions (length, width, height) of the desk, as
well as the dimensions of all key components like the tabletop, drawers, storage spaces, and
technology modules. Clearly label each component.
2.   Smart Features and Technology Integration: Illustrate and describe the smart technology integrated
into the desk. This could include features such as built-in wireless charging, Bluetooth speakers,
adjustable height for standing or sitting, touchscreen controls, or LED lighting for ambient work
conditions. Show how these elements are integrated without compromising the desk's functionality.
3.   Ergonomics and Comfort: Ensure the desk is ergonomically designed, considering factors like
seating height, keyboard and screen positioning, and clearance for leg movement. Demonstrate how
the desk supports posture and comfort for long working hours.
4.   Materials and Sustainability: Indicate the materials used for various components of the desk, such as
the tabletop, legs, and technology modules. Emphasize sustainability, and consider the impact of
material choices on both the environment and the user's well-being.

Important Note: These are sample question(s) and not representing actual questions of examinations. Also number of
questions in entrance examination would be as per exam pattern