SSC PUBLIC EXAMINATIONS: JULY-2020
GENERAL SCIENCE – PAPER- I & II
MODEL PAPER
(English Medium)

Time: 3.15 Hrs.   **Max. Marks: 100 Marks**

Instructions:
1. This paper consists of Part-A & Part- B.
2. Part-A Contains questions from Physical Science and Part-B consists from Biological Science
3. Part-A & Part-B contains 4 sections each
4. There are 33 questions in the paper.
5. There is internal choice in Section-IV of Part –A and Part- B.
6. Write all the questions visibly & legibly.
7. 15 minutes are given for reading the question paper.

PART-A

SECTION - I

Note: 1. Answer all the Questions
2. Each Question carries 1 Mark   6x1=6

1. The Doctor Advised to used 2D lens to correct eye defect. What is its focal length?
2. Highest electronegativity element is _____.
3. State 'Hund's rule'
4. Statement I : Sodium is a high reactive metal
   Statement II : Mercury is a moderate reactive metal
   Write the correct answer of the following in your answer booklet
   A) Both Statements are correct   B) Statement 1 is only correct
   C) Statement 2 is only correct   D) Both Statements are wrong
5. Which of the following properties does not change during refraction?
   A) Wave length   (b) Frequency   (c) Speed   (d) Time period
6. Write any one use of Tungsten

SECTION - II

Note: 1. Answer all the Questions
2. Each Question carries 2 Marks   4x2=8

7. Draw the direction of magnetic lines of force, assuming that current is flowing out of the page?
8. Write any two questions to understand difference between far point and near point
9. Assume and write $(n + l)$ value of 3d orbital
10. Write the limitations of Mendeleeff's periodic table

SECTION - III

Note: 1. Answer all the Questions
2. Each Question carries 4 Marks   4x4=16

11. Observe the structure and answer the following questions

$$CH_2 = C = CH - \underset{\underset{Cl}{|}}{CH} - \underset{\underset{Cl}{|}}{CH} - CH_2 - CH_2 - \underset{\underset{OH}{|}}{CH} - \underset{\underset{OH}{|}}{CH_2}$$

   a) What is the root word in the compound?
   b) What is the functional group in the compound?
   c) What is the name of the compound?
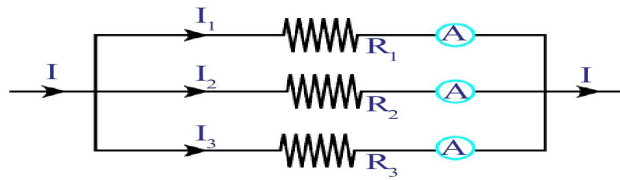   f) Is it an unsaturated compound. If Yes, why?

12. Observe the figure and answer the following questions

    a) Are all the resistors connected in series or parallel
    b) What is the equivalent resistance of the combination of three resistors
    c) In this system, which physical quantity is constant
    d) If $R_1 = 2\ \Omega$, $R_2 = 3\ \Omega$ and $R_3 = 6\ \Omega$, then find equivalent resistance
13. Define following
   a) Condensation   b) Dew
14. What is themite process? Mention its applications in daily life?

SECTION - IV

Note: 1. Answer all the Questions
      2. Each Question carries 8 Marks   2x8=16
15. a) Why does tooth decay start when the pH of mouth is lower than 5.5?
   b) What is neutralization reaction? Give example

(OR)

Explain the formation of the flowing molecules using valence bond theory
   a) N_2 molecule   b) O_2 molecule
16. How to find the refractive index of glass slab experimentally?
(OR)
 How do you verify experimentally that the focal length of a convex lens is increased when it is kept in water?