GENERAL SCIENCE SSC–II

SECTION – A (Marks 15)

Time allowed: 20 Minutes

NOTE:- Section–A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

(i) The shape of WBC is
A. Circular B. Oblong C. Rod like D. Irregular

(ii) What is the number of chromosomes in cat?
A. 15 pairs B. 16 pairs C. 6 pairs D. 7 pairs

(iii) Which is the basic unit of inheritance?
A. Gene B. Cytoplasm C. Ribosome D. Golgi

(iv) Which of the following vitamins helps in the coagulation of blood?
A. Vitamin A B. Vitamin B C. Vitamin E D. Vitamin K

(v) Brain and spinal cord are made up of a very large number of
A. Veins B. Arteries C. Neurons D. Particles

(vi) Name of the lower part of the breast bone is
A. Sternum B. Ulna C. Carpel D. None of these

(vii) What per cent of land in Pakistan has been covered with forests?
A. 3 % B. 5 % C. 7 % D. 9 %

(viii) Which of the following crops requires plenty of water for growth?
A. Wheat B. Rice C. Cotton D. Sugar cane

(ix) Which of the following helps to control salinity and water logged areas?
A. Gypsum B. Chromite C. Galm stone D. Iron

(x) How many types of electric charges are there?
A. 1 B. 2 C. 3 D. 4

(x) The quantity of energy supplied by the source to each unit of an electric charge is called
A. Voltage B. Resistance C. Capacitor D. Photometer

(xii) The rocket used for space exploration consists of ________ stages.
A. 5 B. 2 C. 3 D. 4

(xiii) Which isotope is used in treating leukemia?
A. Phosphorus -32 B. Cobalt -60 C. Barium-40 D. Uranium-235

(xiv) Which procedure is used in the diagnosis of epilepsy?
A. BCG B. MRI C. EEG D. ECG

(xv) Which year was Pakistan’s first satellite Badr-I sent into space?

For Examiner’s use only:

Total Marks: 15

Marks Obtained: 25A 1212
چالہ سانس ایس ایس سی-II

پانچوں (12 سے 15) لوگوں کو مکمل کرائے گئے باقی مکمل کریں

1. 1.5 سے 2.0
2. 1.5
3. 2.0
4. 3.0
5. 2.0
6. 4.0
7. 3.0
8. 5.0
9. 3.0
10. 1.0
11. 6.0
12. 4.0
13. 5.0
14. 7.0
15. 6.0
16. 5.0
17. 7.0
18. 8.0
19. 7.0
20. 9.0

میں ایس ایس سی-II سے پانچوں جماعت مکمل کریں گا ۔
GENERAL SCIENCE  SSC–II

Time allowed: 2:40 Hours
Total Marks Sections B and C: 60

NOTE:- Answer any twelve parts from Section ‘B’ and any three questions from Section ‘C’ on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 36)

Q. 2 Attempt any TWELVE parts. The answer to each part should not exceed 3 to 4 lines. \((12 \times 3 = 36)\)

(i) Write about the Rh factor in human blood.
(ii) Write down the uses of Genetic Engineering in agriculture.
(iii) Define Bioconversion.
(iv) Write a short note on RBC.
(v) What is Ozone layer? Write down its benefits.
(vi) Water is an excellent solvent. How is it polluted?
(vii) What is the meaning of Mechanization?
(viii) What is the importance of the Arabian Sea for Pakistan?
(ix) Reproduce the following table of population distribution in Urban and Rural areas on your answer book and complete it:

<table>
<thead>
<tr>
<th>Year</th>
<th>% of Urban Population</th>
<th>% of Rural Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>1901</td>
<td>?</td>
<td>90.2</td>
</tr>
<tr>
<td>1951</td>
<td>17.8</td>
<td>?</td>
</tr>
<tr>
<td>1972</td>
<td>25.4</td>
<td>?</td>
</tr>
<tr>
<td>1981</td>
<td>?</td>
<td>71.7</td>
</tr>
<tr>
<td>1995</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

(x) What is Metabolism?
(xi) Write a short note on Step-down transformer.
(xii) What is a Capacitor? Also name its types.
(xiii) Why and how does a circuit breaker break a circuit?
(xiv) Write down the use of laser in space technology.
(xv) Define Geostationary Orbit.
(xvi) Give the atomic numbers and mass numbers of the following Radioactive elements:
   a. Plutonium  b. Curium  c. Fermium

(xvii) Define Ohm’s law.
(xviii) Where is KANUPP situated? What is its power producing capacity?

SECTION – C (Marks 24)

Note: Attempt any THREE questions. All questions carry equal marks. \((3 \times 8 = 24)\)

Q. 3 a. How are Carbohydrates and Fats digested in the human body? Write in detail.
   b. Show by a table the energy requirements of various age groups of human beings.

Q. 4 a. Explain the effects of Deforestation on environment.
   b. What is meant by ecosystem?

Q. 5 a. Write detailed notes on Direct Current (D.C) and Alternating Current (A.C).
   b. How can the Galvanometer be converted into Voltmeter?

Q. 6 a. How is Laser different from the Ordinary light?
   b. Describe C.T Scan and its benefits.
جنرل سانس ایس سی - 11

(12x3=36)

(3x8=24)