



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

ANNUAL EXAM 2025-26 SCIENCE (SET I)

Class: VIII

Date: 23.03.26

Time: 3 hours

Max Marks: 80

General Instructions:

- (i) This question paper consists of 39 questions in 3 sections. Section A is Biology, Section B is Chemistry and Section C is Physics.
- (ii) All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.

Section-A BIOLOGY		
1	Which of the following is a Kharif crop? a) Wheat b) Gram c) Rice d) Mustard	1
2	The process of loosening and turning of soil is called: a) Harvesting b) Ploughing c) Weeding d) Irrigation	1
3	The practice of growing different crops in the same field in different seasons is known as: a) Mixed cropping b) Crop rotation c) Monoculture d) Harvesting	1
4	Which of the following is used for loosening and turning the soil? a) Sickle b) Hoe c) Plough d) Seed drill	1
5	Which of the following is an example of a natural ecosystem? a) Aquarium b) Garden c) Forest d) Crop field	1
6	Animals that give birth to young ones are called: a) Oviparous b) Viviparous c) Asexual d) Budding	1
7	The fusion of male and female gametes is known as: a) Pollination b) Fertilisation c) Germination d) Metamorphosis	1

8	Which hormone is responsible for the development of secondary sexual characters in boys? a) Estrogen b) Thyroxine c) Testosterone d) Insulin	1
The following two questions consist of two statements – Assertion (A) and Reason (R) . Answer these questions by selecting the appropriate option given below: A. Both A and R are true, and R is the correct explanation of A. B. Both A and R are true, and R is not the correct explanation of A. C. A is true but R is false. D. A is false but R is true.		
9	Assertion (A): Hormones play an important role during adolescence. Reason (R): Hormones are secreted by endocrine glands and regulate body changes.	1
10	Define manure and mention one advantage of using it.	2
11	What is adolescence? Name any two changes that occur during this period.	2
12	Explain any three causes of deforestation.	3
13	Describe the process of fertilisation in humans. OR Draw a neat and labelled diagram of the human female reproductive system.	3
14	Read the following passage and answer the questions: A village located near a forest has seen rapid cutting of trees over the past few years to make space for houses and roads. Gradually, the villagers noticed a decrease in rainfall, soil erosion during monsoons, and a decline in the number of wild animals in the area. Answer the following questions: a) Name the process of cutting down trees on a large scale. b) Mention one reason for the decrease in rainfall in the area. c) Explain any two effects of deforestation on animals. OR c) Suggest any two methods to conserve forests.	1 1 2 2
15	What is adolescence? Explain the physical, mental, and emotional changes that occur during this stage. OR Describe the role of hormones during adolescence. Explain the functions of testosterone, estrogen, and thyroid hormone in the human body.	5
Section-B Chemistry		
16	Which of the following non-metals is used to make fertilisers? a) Oxygen b) Sulphur c) Nitrogen d) Iodine	1
17	What is the valency of Magnesium? a) 3 b) 2 c) 1 d) 0	1
18	A metal which is found in liquid state at room temperature? a) Sodium b) Mercury c) Potassium d) Beryllium	1

19	Which of the following is obtained from fractional distillation of petroleum? a) Petrol b) Diesel c) Kerosene d) All of these	1
20	Which of the following is NOT a fossil fuel? a) Coal b) Petroleum c) Natural gas d) Wood	1
21	The process of burning coal to get energy is called: a) Combustion b) Distillation c) Carbonization d) Refining	1
22	The power of an earthquake is expressed on a scale called: a) Richter scale b) Celsius scale c) Newton scale d) Seismic scale	1
<p>The following question consists of two statements – Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option given below: A. Both A and R are true, and R is the correct explanation of A. B. Both A and R are true, and R is not the correct explanation of A. C. A is true but R is false. D. A is false but R is true.</p>		
23	Assertion (A): Petroleum is called Black gold Reason (R): Due to its great commercial importance, petroleum is called black gold.	1
24	List two ways to prevent the corrosion of iron objects	2
25	Define fractional distillation. Write the name of any four products formed by the fractional distillation of petroleum.	3
26	What is an earthquake? Explain any two causes of an earthquake. OR Explain the structure and functions of a lightning conductor.	3
27	<p><u>Based on the below passage, answer the following questions:</u></p> <p>Metals are the elements which are often found in nature in combined form (as ores) but few metals occur in free state too. Metals possess such specific properties which make them very useful in practical life. The properties shown by them are lustrous surface, they can also be polished for obtaining a highly reflective surface, hard and strong in nature, good conductor of heat and electricity and also malleable and ductile. But few metals are exceptionally different too in some properties like Sodium and Potassium are exceptional cases in this case as they can be cut with knife. Metallic elements possess high melting and boiling points too.</p> <p>(a) Which of the following metals is the most abundant in earth crust? (i) Al (ii) Fe (iii) Na (iv) Ca</p> <p>(b) Metal with highest melting point: (i) Tungsten (ii) Mercury (iii) Molybdenum (iv) Osmium</p> <p>(c) Give any two physical properties of metals</p> <p>OR</p> <p>(c) Give any two uses of metals</p>	<p>1</p> <p>1</p> <p>2</p> <p>2</p>
28	With suitable diagrams explain the internal structure of the earth. OR	5

	(a) Briefly discuss any three kinds of damages caused by the earthquake (b) Draw the neat and labelled diagram of a gold-leaf electroscope.	
Section-C Physics		
29	Which of the following is the brightest star in the night sky? (a) Betelgeuse (b) Pole Star (c) Rigel (d) Sirius	1
The following question consists of two statements – Assertion (A) and Reason (R) . Answer these questions by selecting the appropriate option given below: A. Both A and R are true, and R is the correct explanation of A. B. Both A and R are true, and R is not the correct explanation of A. C. A is true but R is false. D. A is false but R is true.		
30	Assertion (A): The image formed by a plane mirror is laterally inverted. Reason (R): Left side of the object appears as right side in the image.	1
31	Assertion (A): Sound cannot travel through vacuum. Reason (R): Sound needs a material medium to propagate.	1
32	Describe any two applications of ultrasound.	2
33	How many laws of reflection are there? State them. OR A boy is 6 m away from the reflecting side of a mirror. He moves 2 m towards the mirror. What is the distance of the boy from the position of his new image?	2
34	Which constellation resembles a hunter? Name its two brightest stars.	2
35	Define the terms compression and rarefaction. Draw the diagrams for compression and Rarefaction regions	3
36	List the characteristics of the image formed by a plane mirror.	3
37	Why is the use of CFLs and LED bulbs considered a good alternative to using incandescent bulbs?	3
38	Read the following passage and answer the questions: In a scrap yard, a large crane is used to lift heavy iron and steel objects. The crane has a circular metal core with a coil of insulated copper wire wound around it. When electric current passes through the coil, the crane can lift heavy iron objects. When the current is switched off, the objects fall down. a) Name the type of magnet used in the crane. b) Why does the crane stop lifting iron objects when the current is switched off? c) What material is used for the core of the electromagnet and why? OR c) State one advantage of using an electromagnet over a permanent magnet in cranes.	1 1 2 2
39	Define a galaxy and provide two examples. Also, mention two shapes that galaxies can take. Draw the diagram of the milky way galaxy. OR Explain how we can locate Sirius using Orion. Support your explanation with diagram. in which hemisphere Orion is visible?	5

*****ALL THE BEST*****