

SCIENCE

VIII (CBSE)

Full Syllabus Test

Full Marks : 80

Time : 3 hrs.

(All questions are compulsory)

PHYSICS

1. You spill a bucket of soapy water on a marble floor accidentally. Would it make it easier or more difficult for you to walk on the floor ? Why ? [2]
2. Iqbal has to push a lighter box and Seema has to push a similar heavier box on the same floor. Who will have to apply a larger force and why ? [2]
3. Friction can never be entirely _____. [1]
4. Spring balance is a device used for measuring the _____ acting on the object. [1]
5. Unlike charges each other. [1]
6. If the force is applied on smaller area of contact, then pressure exerted by it [1]
7. The force which acts when two objects are in actual contact is called force. [1]
8. Explain why the cutting instruments are sharpened. [1]
9. During dry weather, clothes made of synthetic fibre often stick to the skin. Which type of force is responsible for this phenomenon ? [2]
10. Shrillness of a sound is determined by the of vibration. [1]
11. The sound from a mosquito is produced when it vibrates its wings at an average rate of 500 vibrations per second. What is the time period of the vibration ? [2]
12. Three different vibrating objects produce three types of sounds X, Y and Z. The sounds X and Y cannot be heard by a man having normal range of hearing but sound Z can be heard easily. The sound X can be heard by a bat whereas sound Y can be heard by a rhinoceros. What type of sounds are X, Y and Z ? [2]
13. What is the difference between pitch and frequency ? [2]
14. Among water and steel, in which medium the sound wave will travel faster ? [2]
15. What happens to the speed of sound when it goes from solid to gaseous state ? [2]
16. Define dispersion of light. Name the colours in the order they appear in the spectrum of light. [2]
17. Can we hear the sound on the moon ? Justify. [2]

CHEMISTRY

18. Indicate whether the following statements are True or False. Also, write the false statements in their correct form. [6]
 - (i) Air is necessary for combustion.
 - (ii) Magnesium is a non-combustible metal.
 - (iii) Carbon dioxide is an excellent fire extinguisher.
 - (iv) Calorific value of wood is higher than that of coal.
19. Match the following for the flame of a candle. [3]

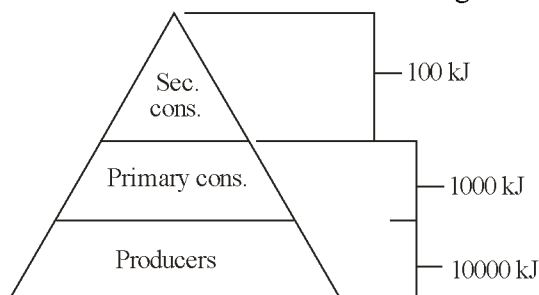
Column A	Column B (Zone)	Column C (Colour)
(a) hottest part	(i) innermost zone of unburnt wax vapours	(x) blue
(b) moderately hot	(ii) middle zone of partial combustion	(y) black
(c) least hot	(iii) outer zone of complete combustion	(z) yellow

20. If you hold a piece of iron wire with a pair of tongs inside a candle flame or a Bunsen burner flame, what will you observe? Will it produce a flame? [2]
21. How will you distinguish between fire extinguishing action of water and CO₂? [2]
22. Cracker on ignition produces sound. Why? [2]
23. Cooking utensils are made of metals but their handles are made of wood or plastic. Why? [2]

24. One day Reeta went to a jeweller's shop with her mother. Her mother gave an old gold Jewellery to the goldsmith to polish. Next day when they brought the Jewellery back, they found that there was a slight loss in its weight. can you suggest a reason for the loss in weight? [3]
25. Define electrolysis. Through diagram represent movement of ions during electrolysis. [2]
26. Write one important application of electrolysis in our daily life. [2]
27. Does pure water conduct electricity? If not, what can we do to make it conducting? [1]

BIOLOGY

28. Define crop rotation. [1]
29. **Assertion:** Low blood sugar level. [1]
Reason: Insulin helps in uptake of glucose by cells.
 (a) Both assertion and reason are true and reason is correct explanation of the assertion.
 (b) Both assertion and reason are true and reason is not the correct explanation of the assertion.
 (c) Assertion is true but reason is false.
 (d) Assertion is false but reason is true.
30. (i) What is shown in the diagram? [1]
 (ii) State the law according to which the numbers shown in the diagram are decreasing as it goes up. [1]



31. Define antibiotics. [1]
32. What is vaccine? [1]
33. Write two differences between mixed cropping and intercropping. [1]
34. What is reforestation? [1]
35. Name two gases responsible for acid rain. [1]
36. Which cell organelle is called the suicidal bag and why? [2]
37. Write two functions of insulin in body. [2]
38. Draw an animal cell and label nucleus, golgi bodies. [2 + 1]
39. Explain three processes of crop protection. [3]
40. Write three differences between bacteria and virus. [3]
41. Write four hormones secreted from anterior pituitary. What is gigantism? Which hormone is responsible for it? Name the mineral needed for T_4 formation. [2+1+1+1]

OR,

Draw the female reproductive system and label four parts of it. Define implantation. Which hormone helps in this process? [3+1+1]