

Question Paper SA–II (2014-2015) Set A
CBSE Class 8 SCIENCE

General Instructions:

- All questions are compulsory.
- Q No 1 to 8 carry one mark each.
- Q No 9 to 16 carry two marks each.
- Q No 17 to 23 carry 3 marks each.
- Q No 24 to 28 carry 5 marks each.
- Q No 11, 25, 27 have internal choice.

1. Which part of the cell contains organelles?
2. Write the name of a male hormone?
3. What do we call the sudden & extreme changes taking place during the development of an animal?
4. What will happen if two charged objects made of different material are brought near each other?
5. Why a cracking sound is heard while taking off sweater during winter?
6. During thunderstorm, which phone should be used–mobile phone, cordless phone or landline?
7. Sparkling of power pm the carrom board will increase or decrease the friction?
8. What is the audible range for human ears?
9. Write the main difference between unicellular & multicellular organisms. Also give one-one example of each.
10. Write the name of female reproductive organs. In which female reproductive organ does the embryo get embedded?

11. a) Name the hormone produced by Pancreas.
b) Name the disease caused when this hormone is not produced in sufficient amount.

OR

Write any two changes in the body that takes place at puberty.

12. Define Ductility. Name any two ductile metals.
13. What will you do if you are at following places at the time of lightning?
(a) If you are in a forest? (b) If you are in an open space where there is no shelter?
14. Friction produces heat. How? Give 2 example?
15. How is sound produced? Name the sound producing organ in human.
16. Mention the type of reflection: Whether diffused or regular will occur in the following:
(a) Polished wooden table (b) Chalk powder (c) Cardboard surface (d) Mirror
17. a) Make a labelled diagram of the human nerve cell.
b) What function do nerve cell perform?
18. a) Name the type of asexual reproduction in Amoeba. b) Explain the process with the help of diagrams.
19. a) Why copper cannot displace Zinc from its salt solution? b) Sodium and potassium are stored in kerosene. Why?
20. List conditions under which combustion can take place.
21. a) What is a Lightning conductor? b) What is the role of lightning rod in it?
22. Fill in the blanks:
a) Time taken by an object to complete one oscillation is called b) The unit of frequency is c) Unwanted sound is called
23. State three characteristics of the image formed by a plane mirror.
24. a) State the laws of reflection. Also, draw the diagram.

b) What is the angle of incidence of a ray if the incident and reflected rays are at an angle of 90° to the incident ray?

c) Write the function of Iris in the human eye.

25. Draw a labelled diagram of an animal cell.

OR

Draw a labelled diagram of a plant cell.

26. True or False:

a) Sound cannot travel in vacuum.

b) The no. of oscillations per second of a vibrating object is called its time-period.

c) If the amplitude of vibration is large, sound is feeble

d) The lower the frequency of vibration, the higher is the pitch

e) Noise pollution may cause partial hearing impairment.

27. a) Make a labelled diagram of a candle flame.

b) Which zone of a flame does a goldsmith use for melting gold and silver and why?

OR

Write five characteristics of an ideal fuel.

28. Reena is 8th class student. She always see that her grandmother blame her mother that why she gave birth to a girl child not to a boy. So one day Reena asked to her science teacher. "Is her mother responsible for not giving birth to a boy child?" Then her teacher explained that her mother is not responsible for this as: Each cell of human being has 23 pairs of chromosomes, 22 pairs are same in both male and female cell but one set of chromosome is different in male. It is XY & in female it is XX. X & Y chromosome are called sex chromosomes, which are responsible for the sex of a child. Mainly male are responsible for the child sex but in the societies females are blamed for girl child.

(a) What is the value that learner develop from this activity?

(b) How many chromosomes are present in each cell of human being?

(c) Write the sex chromosomes are present in each cell of human being?

(d) Draw a diagram showing sex determination in human being.