

Question paper 2011 - 2012 CBSE Class 8 Science SA – II, set 2

General Instructions:

- The question paper consists of 2 sections Section A (having 21 questions) and Section B (having O9 questions). You are to attempt both the sections.
- All questions are compulsory.
- There is no overall choice. However, internal choices have been provided in 3 questions of 5 marks category and 3 questions of 2 marks category.
- All questions of Section A and all questions of Section B are to be attempted separately.
- Questions l to 5 in Section A, and Questions 22 and 23 in Section B, are multiple choice type questions and carry one mark each.
- 6. Questions 6 to 11 in Section A, and Questions 24 and 25 in Section B, are short answer type questions and carry 2 marks each.
- 7. Questions 12 to 17 in Section A, and Questions 26 to 28 in Section B, are also short answer type questions and carry 3 marks each.
- 8. Questions 18 to 21 in Section A, and Questions 29 and 30 in Section B, are long answer type questions and carry 5 marks each.

Section - 'A

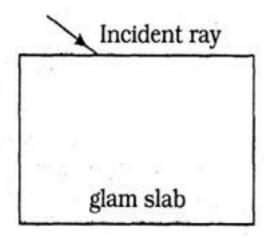
- 1. The small circular aperture present in the centre of iris is known as the: (1)
- (a) cornea (b) retina (c) pupil (d) cone
- 2. The synthetic fibre that appears to resemble wool is (1)
- (a) PET (b) acrylon (c) Rayon (d) nylon
- 3. A prominent constellation looking like a distorted form of the letter W or M, is the: (1)
- (a) Cassiopeia (b) Big dipper (c) Orion (d) Ursa minor
- 4. An example of a plastic which cannot be remoulded again by simple heating is: (1)





- (a) polyethene (b) PVC (c) polystyrene (d) bakelite
- 5. An icy celestial body that appears again and again after regular intervals, is the (1)
- (a) Ceres
- (b) Phobos
- (c) Halley's comet
- (d) Sirius
- 6. Define the terms
- (a) relative refractive index
- (b) absolute refractive index in terms of 'speed of light'. (2)

Complete the ray diagram showing Na Incident ray the path of rays in the ray diagram given here.



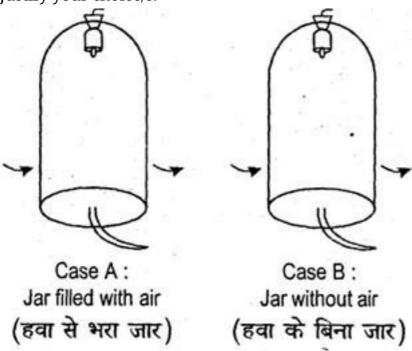
- 7. Name a natural effect based on dispersion of sun light. State in brief, the reason for its occurence. (2)
- 8. Differentiate between tactual and auditory aids for visually challenged persons. Give one example of each. (2)
- 9. Look at the given figure carefully.

In which case/s would we hear the sound of the bell when the two belljars are shaken.





Justify your choice/s.



10. State two conditions necessary for producing or sustaining combustion of al combustible Substance. (2)

OR

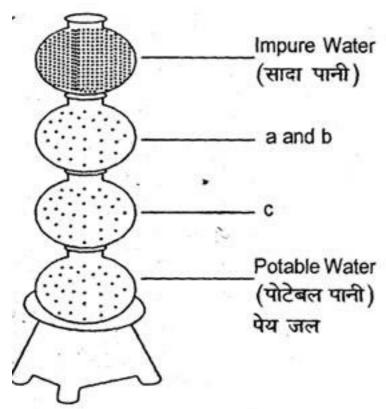
Differentiate between spontaneous and explosive combustion.

- 11. "Rayon is not truly an artificial fibre." Justify. (2)
- 12. Radha's grandmother often complained of hazy Vision. (3)
- (i) Name the eye defect she may be suffering from?
- (ii) What may be the possible reason behind this defect?
- (iii) State any one possible way that could improve her vision.
- 13. (i) What is the effect on the (3)
- (a) loudness of a sound if the amplitude of a vibrating body is doubled? -
- (b) pitch of a sound when the frequency of the vibrating body is doubled?
- (ii) The frequency of a sound is .5 kHz. Is it audible? State the reason in support of your answer.
- 14. (i) Why are geostationary satellites called so? (3)
- (ii) What is the time period of their revolution around the earth?





- (iii) Mention any one of their practical applications.
- 15. (i) Write any two ill effects of incomplete combustion. (3)
- (ii) What special precaution should be taken at LPG godowns or petrol pumps?
- 16. Look carefully at the given (3)
- (i) What name is given to the technique shown in the figure?
- (ii) Label the parts a, b, and c.1 a and b
- (iii) What do you understand by potable water?



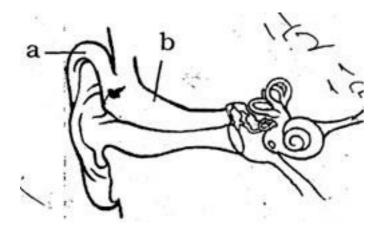
- 17. (i) How does domestic sewage affect aquatic animals? (3)
- (ii) What is the purpose of purification of water? (two points)
- 18. (i) How is the virtual image, formed by a convex lens, different from that formed by a concave lens? (5)
- (ii). Complete the given ray diagram.
- (iii) Mention any two practical devices that make use of convex lenses.
- 19. (i) Enlist any three measures that can help to limit noise pollution. (5)
- (ii) We hear the thunder a little after we see the flash of lightning...Why?
- (iii) What is sign language? For whom is it useful? -5





OR

- (i) Label the parts A a, b, and c in the following diagram of the human ear.
- (ii) State the functions of each of these three parts.
- (iii) Name the three bones present in the middle ear.
- (iv) What does persistence of hearing of a normal human ear imply?



- 20. (i) With the help of an activity explain that non-luminous zone is the hottest part of a flame. (5)
- (ii) Calorific value of wood is 18000kJ/kg. How much wood is required to produce heat energy of 1,000k?
- (iii) Why are gaseous fuels considered the best? (Give any two reasons)
- 21. (i) "Excessive use of plastic is a threat Comment. (5)
- (ii) Write full form of PET.
- (iii) How are synthetic fibres better than fibres? (Give two reasons)

OR

- (i) State any three characteristics of synthetic plastics.
- (ii) Differentiate between biodegradable and non-biodegradable wastes. Give one example of each.

Section - 'B'

- 22. The crop, which is sown during rainy season, is: (1)
- (a) wheat (b) mustard (c) maize (d) linseed
- 23. Hydra reproduces by: (1)

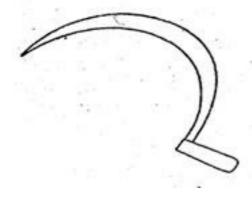




- (a) budding (b) multiple fission (c) binary fission (d) laying eggs
- 24. How is transplantation advantageous? (2)
- 25. (a) What is lodging? (2)
- (b) Why is it advisable to minimize the use of fertilizers?

OR

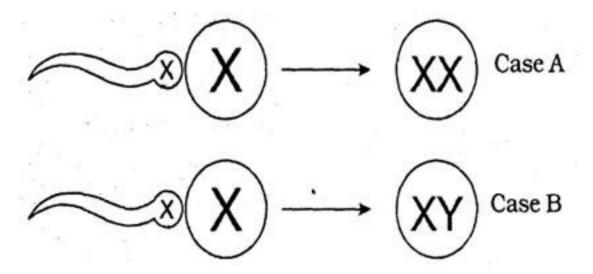
- (a) Name the agricultural implement, shown in the figure.
- (b) For which agricultural practice is this implement used?
- (c) How is large scale storage of grains done?



- 26. Name and explain the process by which new varieties of crops are developed? (3)
- 27. (a) What are hermaphrodites? Give one examples (3)
- (b) In which parts of the female reproductive system does:
- (i) production of eggs takes place □ □*
- (ii) fusion of eggs with sperms takes place.
- (c) What are the functions of the harmones produced by the ovaries?
- 28. (a) The following diagram shows the fertilization of an egg cell by a sperm cell. What is the possibility of sex of the child in case Anand case B (3)
- (b) Is mother responsible for determining the sex of the child 2 Give reason.







- 29. (a) Differentiate between oviparous and viviparpus animals. Give one example of each.
- (5)
- (b) How are egg shells formed?
- (c) Draw a neat labelled diagram of a human sperm Cell.
- 30. (a) Why do some tadpoles fail to grow into adult frogs? (5)
- (b) Name the gland that secretes: is:
- (i) growth hormone
- (ii) thyroxin
- (iii) insulin
- (c) How is diabetes caused?
- (d), Where is adrenal gland located? Write two functions of the hormone, secreted by the adrenal gland.

OR

- (a) Name any two minerals and any two vitamins that are needed to build strong and healthy bones.
- (b) How is physical exercise beneficial?
- (c) What circumstances may provoke an adolescent towards taking drugs?
- (Discuss any two) (a)

