

CBSE Class 10 Science Practice Paper (Fully Solved)

Set 1: 2015

You will find:

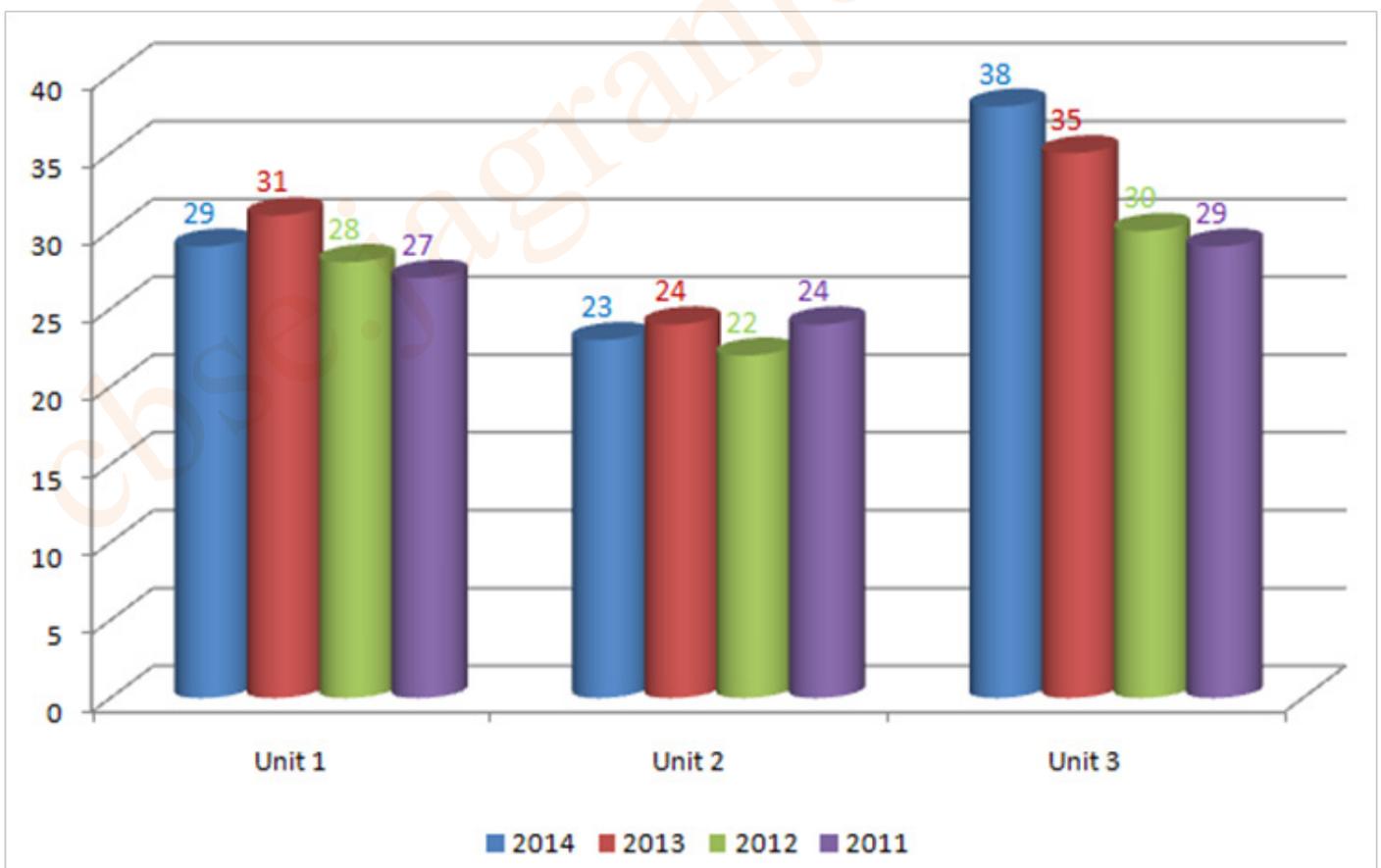
- Semester Analysis
- Exam Preparatory Checklist
- Completely Solved Practice Paper
- Unique Solutions

PREFACE

The Practice Paper is a product of CBSE Class 10th Exam experts of jagranjosh.com, an online educational portal of Dainik Jagran.

After a round analysis for the previous three years of CBSE Class 10th Summative Assessment – II Science Question papers, the jagranjosh.com experts have set this Practice Paper for the 2014 CBSE Class 10th Summative Assessment – II.

An analysis of Previous Years Science Question Papers has been mentioned here:



Below are the Chapters covered under the entitled units:

Unit 1	<ul style="list-style-type: none">➤ Light – Reflection & Refraction➤ Human Eye & the Colourful World
Unit 2	<ul style="list-style-type: none">➤ Metals & Non–Metals➤ Carbon & its Compounds➤ Periodic Classification of Elements
Unit 3	<ul style="list-style-type: none">➤ How do Organisms Reproduce?➤ Heredity & Evolution➤ Our Environment➤ Management of Natural Resources

This conceptual Practice Paper along with guided solutions is a product exclusively for CBSE Class 10th students. The pattern of the Practice Paper is as per the Previous Year's CBSE Summative Assessment – II Science Question Papers, thus the students will find it easy and understandable in all its aspects.

Free Checklist for the Year 2015 for Class 10th Science:

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- » Chapter-wise [Tips & Strategy](#)
- » Chapter-wise [NCERT Solution](#)
- » Chapter-wise [Online Test](#)
- » [Sample Paper](#)
- » Solved [Practice Paper](#)
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Solved Practice Paper
Class: X
Subject: Science
Set -1

Time Allowed: 3Hours

Maximum Marks: 90

General Instructions:

- All questions are compulsory.
 - The question paper comprises of two sections, A and B. You are to attempt both the sections.
 - Questions 1 to 3 in section A are one mark questions. These are to be answered in one word or in one sentence.
 - Questions 4 to 6 in section A are two marks questions. These are to be answered in about 30 words each.
 - Questions 7 to 18 in section A are three marks questions. These are to be answered in about 50 words each.
 - Questions 19 to 24 in section A are five marks questions. These are to be answered in about 70 words each.
 - Questions 25 to 27 in section B are 2 marks questions and Questions 28 to 36 are multiple choice questions based on practical skills. Each question of multiple choice questions is a one mark question. You are to select one most appropriate response out of the four provided to you.
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“Section – A”

- Q 1. Name one liquid carbon compound which is used as an additive in petrol in some countries.
- Q 2. In a food chain consisting of grass, frog, bird and insect, in which will be the concentration of harmful chemicals be maximum?
- Q 3. What type of lens is used to correct (a) hypermetropia (b) myopia ?

Q 4. Write one property of hydrogen which makes it resemble with

- (a) Alkali metals
- (b) Halogens

Q 5. Although coal and petroleum are produced by the degradation of biomass, even then we need to conserve them. Why?

Q 6. Answer the following questions:

- (a) How does copper T prevent pregnancy? Will it also provide protection against sexually transmitted diseases?
- (b) What is the role of seminal vesicles and prostate gland in human male reproductive system?

Q 7. Explain:

- (a) Why the first period of the modern periodic table is having only two elements whereas second period has eight elements?
- (b) Why do elements of same group show similar properties but elements in different groups show different properties?

Q 8. An object 5 cm is placed at a distance of 10 cm from a convex mirror of radius of curvature 30 cm. Find the nature, position and size of the image?

Q 9. Ramesh and his friends wanted to go for an outing. Finally it was decided that they will go by cycle to watch the famous Ranapur water fountain show, situated nearly 8 kms from their place. It was a sunny day. They all enjoyed, rejuvenated and rejoiced their mind and body. Ramesh was thrilled as he saw an exciting natural spectrum appearing in the sky when he looked at the sky through water fountain, with the sun behind him. He came back with a number of questions in his mind.

Read the given passage and answer the following questions:

- (a) Name the natural spectrum appearing in the sky. How does it form?
- (b) Draw a ray diagram showing formation of natural spectrum appearing in the sky.
- (c) What values are shown by Ramesh?

Q 10. Answer the following questions:

- (i) What happens when ethanoic acid reacts with sodium hydroxide? Give the equation involved.
- (ii) What happens when vegetable oils are hydrogenated? Name the catalyst used.
- (iii) Why is soap not suitable for washing clothes with hard water?

Q 11. If an object of 7 cm height is placed at a distance of 12 cm from a convex lens of focal length 8 cm, find the position, nature and height of the image.

Q 12. Answer the following questions:

- (a) What is gestation period? How much is the gestation period in humans?
- (b) Name one method of contraception which also protects against STDs.
- (c) Name one STD for which no definite cure has been found so far. What is the causative organism of the disease?

Q 13. Answer the following questions:

- (a) Define speciation.
- (b) Why are the traits acquired during life time of an individual not inherited?
- (c) Can the wing of a butterfly and wing of a bat be considered homologous organs? Why or why not?

Q 14. Describe with the help of a ray diagram the nature, size and position of the image formed when an object is placed at infinity in front of convex lens. State three characteristics of the image so formed.

- Q 15. What is meant by biomagnifications? With the help of food chain, explain how biological magnification of harmful chemicals can occur?
- Q 16. Explain briefly how rain water harvesting is done from open spaces around the buildings in city areas?
- Q 17. Answer the following questions:
- (a) What is ovulation? How often does it happen in human females?
 - (b) Where does fertilization take place in human females?
 - (c) What joins embryo to placenta in mother's body?
- Q 18. Mendel first crossed pure bred pea plants having round yellow seeds with pure bred pea plants having wrinkled green seeds and found that only round yellow seeds were produced in F1 generation. When F1 generation pea plants having round yellow seeds were cross bred by self pollination then peas having round yellow seeds, round green seeds, wrinkled yellow seeds and wrinkled green seeds were produced. Mendel collected a total of 2160 seeds.
- (a) What will be the number of
 - (i) Round green seeds
 - (ii) Wrinkled green seeds
 - (iii) Round yellow seeds
 - (iv) Wrinkled yellow seeds
 - (b) Which ratio as established by Mendel have you made use of in answering the above stated question?
- Q 19. Answer the following questions:
- (a) Why magnification is taken negative for real images and positive for virtual images?
 - (b) Why does a convex mirror is used as rear view mirror in vehicles?

- (c) Power of lens is 2.5 D. Find its focal length.

Or

Answer the following questions:

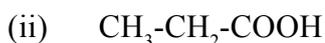
- (a) Explain why, when the sun is overhead at noon it appears white but when the sun is near the horizon at sunset, it appears red?
- (b) A concave mirror produces three times magnified real image of an object at 10 cm in front of it. Where is the image located?

Q 20. Answer the following questions:

- (a) What happens when propanoic acid is warmed with methanol in the presence of few drops of concentrated sulphuric acid? Write the equation of the reaction involved.
- (b) What change will you observe if you test soap solution with a litmus paper (blue and red)? Give reasons for your observation.
- (c) What is meant by denatured alcohol? What is the need to denature alcohol?

Or

(a) Write the IUPAC names of the following:



(b) Why is graphite a good conductor of electricity but diamond is a non conductor of electricity?

(c) How many isomers of the following hydrocarbons are possible:



Q 21. Answer the following questions:

- (a) What is meant by unisexual flowers and bisexual flowers? Give two examples of each.

- (b) Describe the process of fertilization in a flower with the help of labeled diagrams.
- (c) What changes take place in a flower after fertilization which lead to the formation of seeds and fruits?

Or

- (a) Name an organism which reproduces by fission and another by fragmentation.
- (b) How does binary fission differ from multiple fission?
- (c) Explain why more complex multicellular organisms cannot give rise to new organisms through regeneration?

Q 22. Answer the following questions:

- (a) Why could no fixed position be given to hydrogen in Mendeleev's periodic table. Give two evidences?
- (b) Why is nitrogen more electronegative than phosphorus?
- (c) How does the chemical reactivity of the halogens vary on going down in group 17 of the periodic table?

Or

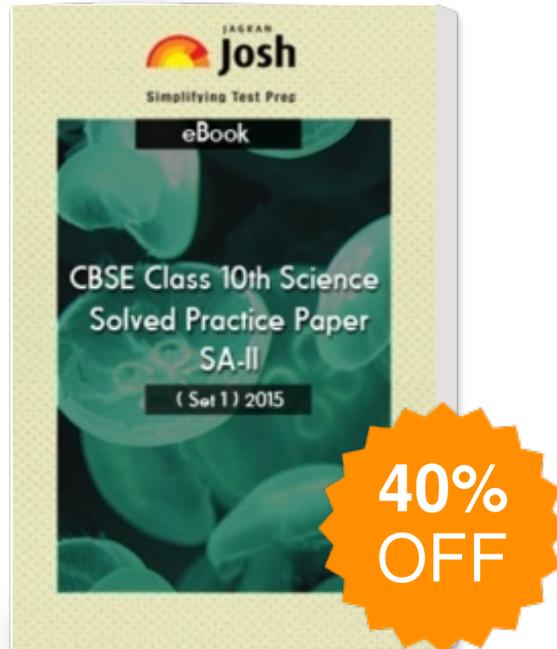
The atomic number of an element is 17.

- (a) What is its valency?
- (b) Whether it is a metal or a non metal?
- (c) Whether it is bigger or smaller in size than an element of atomic number 18?
- (d) What type of bonds it will form with elements of group 18?
- (e) How would its oxide behave with litmus solution?

Q 23. Answer the following questions:

- (a) What are genes? Where they are located in our body?
- (b) What is meant by dominant genes and recessive genes? Give an example of each.

CBSE Class 10th Solved Science Practice Paper 2015 (Set-I)



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