

CODE: A

Name: _____ Sec: _____ Roll No. _____

BURNPUR RIVERSIDE SCHOOL, BURNPUR
ANNUAL EXAMINATION : [2020-2021]
SCIENCE
CLASS – VII

Time: 3 Hrs.

Maximum Marks : 80

=====

General Instructions:

- (i) *This paper contains 30 questions.*
 - (ii) *This paper is divided into 3 sections: A, B and C. All the sections are compulsory.*
 - (iii) *Section-A contains question from 1-14. Each carries 1 mark except for question no. 13 and 14 which is of 4 marks each. Question no.1-6 is MCQ based.*
 - (iv) *Section –B contains question from 15-24. Each question carrying 3 marks.*
 - (v) *Section –C contains questions from 25-30. Each question carrying 5 marks.*
 - (vi) *In the MCQs, you are to select one most appropriate response out of the four provided to you in each question.*
 - (vii) *There is no overall choice. However an internal choice has been provided in question no. 17, 20, 24, 25, 27, and 30. Anyone of the choices in each question has to be attempted.*
- =====

SECTION-A

1. Which of the following splits light? [1]
- (i) Plane mirror
 - (ii) Convex mirror
 - (iii) Prism
 - (iv) Concave mirror

2. The device used for checking magnetic effect is [1]
(i) Computer
(ii) Heater
(iii) Compass
(iv) Insulator
3. Burning is always accompanied by production of [1]
(i) Heat
(ii) New product
(iii) Gas
(iv) All of these.
4. Which of the following is not a reason for scarcity of water? [1]
(i) Increasing population
(ii) Conservation of soil
(iii) Over use of ground water
(iv) Pollution
5. The thinnest blood vessel in the human body is _____. [1]
(i) Capillaries
(ii) Veins
(iii) Arteries
(iv) Pulses.
6. Which of the following is dispersed by wind? [1]
(i) Coconut
(ii) Xanthium
(iii) Urena
(iv) Sunflower
7. Any ____ or a_____ surface acts as a mirror. [1]
8. What is an indicator? [1]
9. Name two land animals which excrete a semisolid waste called Uric acid. [1]
10. What is the purpose of rhythmic beating of heart? [1]
11. Define fruit. [1]

12. Which type of weather is suitable for the growth of fungi? [1]

Answer the question numbers 13 and 14 on the basis of your understanding of the following paragraph and the related studied concepts.

13. Vinita thought to make a solar cooker and she shared the idea with Ankita. Ankita felt very excited that Vinita is using one of the renewable sources of energy. Ankita suggested Vinita to use concave mirror instead of plane mirror as reflector to get maximum heat. Vinita liked the idea of Ankita and thanked her for valuable suggestion. [4]
- (i) Define mirror.
 - (ii) Why concave mirror is better than plane mirror for getting maximum heat?
 - (iii) Write two other uses of concave mirror.
 - (iv) What values of Ankita and Vinita are reflected in the above paragraph?
14. Sarita while helping her mother in kitchen noticed that the slices of potato and brinjal have acquired a brown colour. She asked her mother reason behind this change. Her mother said whenever we keep cut pieces of these vegetables in open for long time they acquire such colour. [4]
- (i) Identify a physical change and a chemical change in the above paragraph.
 - (ii) Why vegetable acquire brown colour?
 - (iii) Write two other example of chemical change.
 - (iv) What value of Sarita is shown here?

SECTION-B

15. Write a short note on Newton colour disc. [3]
16. Differentiate between convex mirror and concave mirror. [3]
17. (i) Why should we buy electrical appliances with ISI mark only? [3]

(ii) Why is an electric fuse required in all electrical appliances?

OR

What is a battery and what is the use of cell holder? How are the cells arranged in a cell holder?

18. Give three applications of neutralization reaction in everyday life. [3]
Explain how neutralization is taking place.

19. What are the characteristics of a chemical change? [Any Three] [3]

20. Which year was observed as the International Year of Freshwater? [3]
What message do we get from this? What percentage of earth's surface is covered with water?

OR

What is the effect of water scarcity on plants?

21. What is the use of a stethoscope? Explain its structure? [3]

22. Priya's grandfather was taken to the hospital as he was unable to perform excretory processes. Priya heard a nurse talking to her father that her grandfather has kidney failure and needs to undergo dialysis. Priya later asked her father what dialysis process is and why grandpa needs it. Her father smiles and tells her all the facts associated with this process.

(i) What is dialysis?

(ii) Which is the major excretory organ in human beings?

(iii) What values of Priya are reflected in the above passage?

23. Give one word for the following:- [3]

(i) These are produced by plants as a product of sexual reproduction.

(ii) The type of reproduction which produces a new plant which is an exact copy of the other plant

(iii) This develops into a seed.

(iv) This involves fusion of male and female gamete

(v) The reproductive part of plant

(vi) It develops into an embryo.

24. Write about pseudopodia in Amoeba? [3]

OR

Define tongue. What are its functions?

SECTION-C

25. What are spherical mirrors? [5]
State the characteristics of an image formed by a plane mirror.

OR

What is a lens? Name the different type of lenses.

Identify the mirror by the following characteristics:-

- (i) Image formed is always virtual, erect and of same size as that of object.
- (ii) Image formed is erect, virtual and smaller in size than the object.
- (iii) Image formed is real, inverted, virtual, erect, magnified and diminishing depending upon the distance of object with respect to the mirror.

26. Give reason in support of your answer:- [5]

- (i) CFLs are preferred over electric bulbs.
- (ii) Same fuse cannot be used for geyser and television set.
- (iii) It is not advisable to touch electric bulb connected to the main.
- (iv) Wires of different thickness, different length, and different material are used for different purpose.
- (v) Birds don't get shock when they sit on high power live wire but we do.

27. Following questions are related to rust:- [5]

- (i) Write the chemical composition of rust.
- (ii) Formation of rust is what type of change? Define the change
- (iii) What are the conditions necessary for rusting?
- (iv) Give one example of a similar type of change mentioned above.
- (v) How rust can be prevented?

OR

- (i) In addition to the formation of a new product what else accompany a chemical change?
- (ii) What happened when iron nail are dipped in copper sulphate solution?

28. How can we contribute towards water conservation? [5]
29. Define excretion. Draw a labeled diagram of human excretory system. [5]
30. What is pollination? How many types of pollination are there and name them. Differentiate between sexual and asexual reproduction. [5]

OR

What is seed dispersal? Write different ways of seed dispersal with example.

=====