

PHYSICS VIII

I. Answer the following questions [one word or one sentence]

1. In which season of the year is the constellation Orion visible in the sky?
2. Write the full form of LED?
3. Name the instrument used to measure & record an Earthquake?
4. Why should a person not stand under a tree during a thunderstorm?
5. What is a star? Name the star nearest to the earth?
6. State one use of artificial satellites?
7. Which part of the eye gives it its distinctive colour?
8. Name one compound which is decomposed into hydrogen & oxygen by using the chemical effect of electric current?
9. Give a list of two objects around you which are electroplated?
10. What type of reflection of light takes place from?
 - a) A rough surface.
 - b) A smooth surface.

ANSWER THE FOLLOWING QUESTIONS (2 marks each)

1. Why does an electric bulb glow when a current passes through it?
2. Explain why, an owl can see well in the night but not during the day?
3. What happens to the tail of a comet when it moves far away from the sun?
4. What causes the phases of the moon?
5. What are the two main situations in which earthquakes occur?
6. State two characteristics of the image formed in a plane mirror?

ANSWER THE FOLLOWING QUESTIONS (3 marks each)

1. What happens to the needle of a compass kept nearby when electric current is switched on in a wire? Why does this happen?

2. Explain why, a charged body loses its charge when we touch it with our hand?

ANSWER THE FOLLOWING QUESTION (5 marks)

1. A) what is lateral inversion? Explain with the help of an example?

b) What is cataract? How can the vision of a person having cataract be restored?

Or

2. A) Explain why, too little or too much light, both are bad for eyes?

b) Why cannot we see a book which is placed –

i) Behind a wooden screen.

ii) In a dark room.

CLASS VIII

CHEMISTRY MODEL PAPER

1. Fill in the blanks:

1/2x6=3

a. Coal contains mainly-----

b. The burning of fossil fuels causes air----- and also leads to global -----

c. The substance which vaporize during burning give -----

d. The substance which undergo spontaneous combustion is -----

e. The unit in which the calorific value of a fuel is expressed is -----

f. The process of separation of different constituents from petroleum is called -----

2. Define calorific value of a fuel. 1

3. Name the major components of natural gas. 1

4. Which air pollutant combines with the haemoglobin of our blood? 1

5. Name one fuel which burns without producing a flame. 1

6. How can you help reduce air pollution at the individual level? 2

7. Name one source and one harmful effect of each of the following air pollutants 2

a. sulphur dioxide b. chlorofluorocarbons

8. What happens when coal is heated in air? 2

9. State the uses of coal(anytwo) 2

10. What is smog? How is smog formed ? what are its harmful effects? 2

11. How do industries cause water pollution? Name 2 toxic metals whose compound are present in industrial waste.

2

12. Explain why fire caused by electricity should not be extinguished by pouring water? 3

13. Sate 2 uses each of thefollowing products of petroleum---- 3

a. Natural gas b. Paraffin wax c. Diesel

14. Make a well labeled diagram of a candle flame 3

15. Define ignition temperature of a substance. Name 2 substances having low ignition temperature and 2 having high ignition temperature. Why do you have to use paper or a kerosene oil tostart fire in wood or coal. 5

Or

What is global warming? State a harmful effect which can be caused by global warming. What are the disadvantages of burning wood as fuel?

MODEL PAPER

TIME: 1 Hrs

CLASS-8

MM : 34

SUBJECT-BIOLOGY

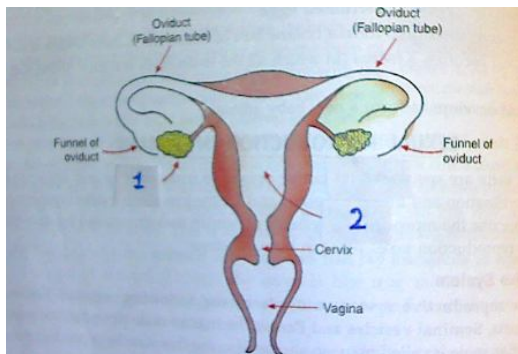
Q.I GIVE VERY SHORT ANSWERS

1 RAM AND HIS WIFE SUNITA HAVE BEEN BLESSED BY A BABY GIRL WHEREAS SHYAM AND HIS WIFE RADHA HAVE BEEN BLESSED WITH A BABY BOY. WHAT TYPE OF SEX CHROMOSOMES HAVE BEEN CONTRIBUTED BY [1/ 2+1/ 2]

- A. RAM
- B. SHYAM

2. (A) NAME THE HUMAN BODY SYSTEM SHOWN IN FIGURE BELOW. [1]

(B) LABEL PART (1) AND (2) [1/ 2+1/ 2]



3. WHAT IS A CELL IN BIOLOGY? [1]

4. WHAT CONTROLS THE FLOW OF SUBSTANCES IN AND OUT OF A CELL? [1]

5. WHICH ORGANISM HAS THE SMALLEST CELL? [1]

Q.II.ANSWER IN SHORT

1. WHY ARE PLANT AND ANIMAL SPECIMENS USUALLY STAINED WITH DYES BEFORE OBSERVING THROUGH A MICROSCOPE? [2]

2. WHY ARE NERVE CELLS LONG AND HAVE BRANCHES? [2]

3. WHAT IS MEANT BY AN EMBRYO? [2]

4. WHAT TYPE OF COUPLES ARE HELPED TO HAVE BABIES BY THE IN VITRO FERTILISATION TECHNIQUE?[2]

5. HOW ARE PIMPLES FORMED? [2]

6. EXPLAIN WHY PEOPLE ARE ADVISED TO USE IODIZED SALT IN COOKING FOOD? [2]

7. DEFINE MENARCHE AND MENOPAUSE. [1+1]

Q.III ANSWER THE FOLLOWING QUESTIONS

1. WHAT TERM IS USED FOR THE FOLLOWING [1+1+1]

(A) AN ANIMAL WHICH IS AN EXACT COPY OF ITS PAPER

(B) A CHANGE FROM TADPOLE TO FROG

(C) PROCESS OF FUSION OF GAMETES

2. WHAT DO YOU UNDERSTAND BY ADOLESCENCE? STATE ONE CHANGE IN BOYS AND ONE CHANGE IN GIRLS DURING ADOLESCENCE. [1+1+1]

3. WHAT IS AN EXOCRINE GLAND? NAME TWO EXOCRINE GLANDS. [1+1+1]

Q.IV ANSWER IN DETAIL

1. GIVE ONE FUNCTION OF EACH OF THE FOLLOWING

(A) MITOCHONDRIA

(B) CELL MEMBRANE

(C) CELL WALL

(D) NUCLEUS

(E) CYTOPLASM

OR

DIFFERENTIATE BETWEEN UNICELLULAR AND MULTICELLULAR ORGANISMS. GIVE ONE EXAMPLE OF EACH. WHAT IS THE DIFFERENCE BETWEEN AN AMOEBA AND A WHITE BLOOD CELL? [1+1+1+1+1]

Model Paper- Physics (class VIII)

Answer the following Questions [one word or in one sentence]

- 1.Name two liquids which conduct electricity?
- 2.Name one natural and one artificial satellite of the earth?
- 3.Name the material of which a lightning conductor is made?
- 4.What is the difference between a star and a shooting star ?
- 5.What type of electric charge is acquired by a rubber balloon when rubbed with a woollen cloth?
- 6.Name any two applications of the chemical effect of electric current ?
- 7.Explain why ,distilled water does not conduct electricity but tap water conducts some electricity?
- 8.If an object is placed at a distance of 7.5cm from a plane mirror , how far would it be from its image?
- 9.Why is it difficult to observe the planet Mercury?
- 10.How does the eye –lens differ from the ordinary convex lens made of glass?

Answer the following Questions[2 marks each]

- 1.Explain why, a book lying on a table in a room can be seen from all the parts of the room?
- 2.Why is it dangerous to touch a working electrical appliance with wet hands ?
- 3.What are the functions of the following parts of eye

A]iris b] retina

- 4.Moon does not have light of its own ? How are we able to see the moon?
- 5.Why does pole star appear to be stationary in the sky?
- 6.How does a lightning conductor protect a tall building?

Answer the following questions [3 marks each]

- 1.Explain why, sometimes when we take off the woollen sweater or a polyester shirt in a dark room we can see tiny sparks of light and hear a crackling sound?
- 2.What is the advantage of using LED in testing the electrical conductivity of liquids?

Answer the following questions[5 marks]

1a What is blind spot in the eye?

b. What is night blindness? What causes night blindness?

c. Explain how you can take care of your eyes?

.OR

2a. Explain why, when an object is placed between two plane mirrors inclined at an angle, then multiple images are formed?

b. Name two defects of the eyes? How are they corrected?

Model Question Paper 2012-13

Sub: Biology

Class: VIII

1. Answer the following questions

(1*6)

- a. _____ is an example of eukaryotic cell and _____ is an example of prokaryotic cell.
- b. Name the technique which is used to help a woman with blocked oviduct to have a baby?
- c. Name the hormone whose deficiency causes diabetes?
- d. Name a single cell which behaves like a complete organism?
- e. What do testes in a man produce and what do ovaries in a woman produce?
- f. Which part of a cell carries out respiration?

2. Answer the following questions.

(2*7)

- a. What are pseudopodia in amoeba? What are the functions of pseudopodia?
- b. What is metamorphosis? Give two examples of metamorphosis?
- c. Write two changes that happen during puberty to boys and to girls?
- d. What are genes? Where are genes located?

- e. What is the difference between Oviparous animals and Viviparous animals?
Give two examples of each.
- f. Explain why people are advised to use iodized salt in cooking food?
- g. Differentiate between endocrine and exocrine glands give two examples of each?

3. Answer the following questions. (3* 3)

- a. Draw a labeled diagram of male reproductive system?
- b. Name the hormone secreted by the following glands and the function of the hormone?
 - 1. Thyroid gland
 - 2. Adrenal gland
 - 3. Pancreas

c. Draw a labeled diagram to show the fertilization of a human egg by the sperm to form a zygote?

4. Answer the following question (1* 5)

a. State two differences between plant cell and animal cell? Draw a general diagram of a plant cell and label it?