Time : 3 hrs.

Class 8

PHYSICS (Time : 1 hr.; Max. Marks : 30)

| - | | ce questions: | | | | | | | | |
|----------------|--|---|----------------|------------------------|---------------------|--------------------|-----------------|--------------------|----------------------|-------|
| (1x6= 1. | , | n of the followin Pupil | ng contr b) | ols the amount Iris | of light c) | enterir Corne | - | ye? d) | Ciliary mus | scles |
| 2. | Which a) | n of the followin Red | ng colou b) | rs bends the m Blue | ost whe c) | en light Yellow | • | through d) | n a prism? Violet | |
| 3. | In a K a) | aleidoscope, tł 60° | ne mirro b) | rs make an ang 45° | gle of c) | 90° | with ea | ch othe d) | r. 30° | |
| 4. | Ball bearings are useful becausea)rolling friction > sliding frictionc)rolling friction = sliding frictiond)they require less maintena | | | | | | | | | |
| 5. | Which a) c) | n of these cann Direction of r Shape | | anged by force | acting b) d) | | ody? of rest | | | |
| 6. | Which a) c) | n of these is us Barometer Pressure Gau | | easure the pres | sure ex b) d) | Manor | | | | |
| 7. | What | causes refracti | on of lig | ht when it pass | ses fron | n one m | nedium t | the o | ther? | (1) |
| 8. | | late the numbe respect to each | | ges formed if t | wo mirr | ors are | placed a | at an ar | ngle of 20° | (2) |
| 9. | Write | two difference | s betwe | en myopia and | hyperm | netropia | . (Diagr | am NO ⁻ | T required). | (2) |
| 10. frictio | a) | Give two adv | vantages | of friction in d | aily life | . Also g | ive two | methoc | ls of increas | ing |
| medo | | What causes fr | iction? | | | | | | | (2+1) |
| 11. | | the laws of ref plane mirror. | lection. | List two charac | teristics | of an i | mage fo | ormed | | (2+1) |
| 12. | Draw a neat and well labeled diagram to show the refraction by a glass slab. What is meant by lateral displacement? | | | | | | | | | |
| 13. | a) | Differentiate | betweer | n contact and n | on-cont | tact for | ce. Give | two ex | amples of e | ach. |

| | b) | | placed u | ipright o | on the s | soil and | ed by a brick w (ii) it is placec cm x 5cm. | - | - | | | |
|--------------|--|--|-----------------------|---------------------|-----------|-----------------------|---|----------------|----------------|----------------------|--|--|
| 14. | a) | Draw a complete ray diagram to show the position of the image formed by a convex lens when the object placed between O and F. List the characteristics of image so formed. | | | | | | | | | | |
| | b) Define optical centre. (3+1+1) | | | | | | | | | | | |
| CHEM | IISTRY | (Time : 1 hr. | ; Max. | Marks | : 30) | | | | | | | |
| Multip 1. | | e Questions: react with oxy Acidic Oxide | /gen to f | form | b) | either | acidic or basic | : oxide d | dependiı | (1x6=6) ng on the | | |
| metal | c) | basic oxide | | | d) | no rea | ction. | | | - | | |
| 2. | , | of these is a fi Rayon | ibre deri b) | ved fro Cottor | m chem | | Nylon | d) | Silk | | | |
| 3. | | of copper, silv ece that will ge Iron | - | - | | | a solution of fe Gold | errous s d) | | of them. | | |
| 4. | Which a) | gas is evolved Hydrogen | when n b) | netals r Oxyge | | th acids c) | ? Carbon dioxid | de | d) | Water. | | |
| 5. | The m a) | etal most used iron | l in the o b) | construe coppe | | dustry is c) | s aluminium | | d) | tin | | |
| 6. | Which a) | of these plasti Perspex | cs can b b) | e used Teflon | | late the c) | hollow walls o Polystyrene | of refrig | erators? d) | Polyethene. | | |
| 7. | What | is plastic? Wha | t is a co | mmon | propert | y of all _l | plastics? | | | | | |
| (1) | | | | | | | | | | | | |
| 8. | | the following:- | | | | | | | | | | |
| (½x4= | =2) a) b) c) d) | The main sou Synthetic fibr Plastic used a Plastic used f | e used f is a cove | or maki ering fo | r electri | | | | | | | |
| 9. | Define | the terms: | a) | Non-m | netals | | b) | Ductil | lity | (2) | | |
| 10. (1x3= | • | ete and balanc | e the fo | llowing | equatio | ons: | | | | | | |
| (172- | a) Na + H ₂ O \rightarrow | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

- b) AI + HCI \rightarrow
- c) Cu + O₂ \rightarrow

11. Answer the following questions:

(1x3=3)

- a) What are the problems associated with improper disposal of plastic goods?
- b) Give any two uses of polyester.
- c) Why rayon is called a regenerated fibre?

12. (i) State whether a displacement reaction will occur in the following reaction. Give reason.

- $CuSO_4$ + Zn \rightarrow
- (ii) Write any two uses of graphite.
- (iii) School bells are made of metals. Give reason.

(1x3=3)

- 13. a) Differentiate between thermoplastic and thermosetting plastic. (2 points)
 - b) What is a metalloid? Give one example.
 - c) What is 4R principle?
 - d) Give the characteristics property and the uses of the following:
 i) Perspex
 ii) Teflon

(1+1+1+2)

14. Answer the following questions:

(½x10=5)

- a) What is the most common form of silica?
- b) Name the ore of Aluminium.
- c) Give an example for a noble gas element.
- d) Name a soft metal.
- e) Name the metal which is the best conductor of electricity.
- f) Name the metal which is used for packing food.
- g) Non-metal which is used in skin-ointments.
- h) Name the most abundant element in the universe.
- i) Name a liquid non-metal.
- j) Name the pure form of carbon.

BIOLOGY (Time : 1 hr.; Max. Marks : 30)

Multiple Choice Questions:

- 1. Which of these cause water pollution?
 - a) Sewage c) Fertilizers
 - Fertilizers and pesticides
- b) Industrial waste
- d) All of these.

2. The egg of a hen is a

a)

- Cell b) Tissue
- c) Organ d) Organ system

(1x6=6)

| 3. | | n of these do no | | - | | | D | | | | |
|---------------|---|-----------------------|---------------|-------------|----|-------|----|--------------|--|--|--|
| | a) | Bacteria | b) | Viruses | c) | Algae | d) | Protozoa | | | |
| 4. | Micro a) | organisms spre Air | ad thro b) | ugh Cuts | c) | Water | d) | All of these | | | |
| 5. | Which of these does not prevent growth of bacteria? | | | | | | | | | | |
| | a) | Salt | b) | Sugar | c) | Water | d) | Oil | | | |
| 6. | Amoeba is a a) Bacterium b) Virus c) Fungus d) Protozoa 7. Name the following. (½x4=2) a) Control center of the cell (½x4=2) b) Spherical shaped bacteria . c) Power house of the cell | | | | | | | | | | |
| | d) Sac like organelle in the plant cell which store food, water or waste | | | | | | | | | | |
| 8. | a) What causes food poisoning?b) Why do you think curd turns sour faster in summer than in winter? (2) | | | | | | | | | | |
| 9. | Which microorganisms act as decomposers? How is this activity useful to us? (2) | | | | | | | | | | |
| 10. | How do viruses cause disease? (2) | | | | | | | | | | |
| 11. | State the function of a)(½x4=2)Ciliab)Chloroplastc)RibosomesCentrosomes | | | | | | | | | | |
| 12. | What are the main points of cell theory? (any 4)(2) | | | | | | | | | | |
| 13. | Give 4 ways to conserve water. (| | | | | | | | | | |
| 14. | Draw a neat & labelled diagram of animal cell & state any 3 differences between plant cell & animal cell. (5) | | | | | | | | | | |
| 15. | i) | | | | | | | | | | |
| germs | s. ii) | | | | | | | | | | |
| -x-x-x-x-x-x- | | | | | | | | | | | |