

V

COMMON SECOND MID-TERM TEST - 2019

Standard IX

Reg.No.

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Time: 2.30 hours.

SCIENCE

Marks: 75

Part - I

I. Choose the correct answer:

12 x 1 = 12

- When the reflecting surface is curved outwards the mirror formed will be _____.
a) concave mirror b) convex mirror c) plane mirror d) none of the above
- The speed of light is maximum in _____.
a) vacuum b) glass c) diamond d) (a) and (c)
- SI unit of temperature is _____.
a) fahrenheit b) joule c) celsius d) kelvin
- A device in which the loss of heat due to conduction, convection and radiation is minimized is _____.
a) solar cell b) solar cooker c) thermo meter d) thermos flask
- Acids turn blue litmus paper to _____.
a) green b) red c) orange d) white
- The hydrated salt of copper sulphate has _____ colour.
a) red b) white c) blue d) green
- Carbon forms large number of organic compound due to _____.
a) allotropy b) isomerism c) tetravalency d) catenation
- Graphene is one atom thick layer of carbon obtained from _____.
a) diamond b) fullerene c) graphite d) gas carbon
- The legal measures to prevent plastic pollution come under the _____ Production Act 1988.
a) forest b) wild life c) environment d) human rights
- Microbes that generally enter the body through nose are likely to affect _____.
a) gut b) lungs c) liver d) lymph nodes
- The organ affected by jaundice is _____.
a) liver b) lungs c) kidney d) brain
- H1N1 virus causes _____.
a) swine flu b) tuberculosis c) cholera d) small pox

Part - II

II. Answer any 7 questions: (Ques.No.22 is compulsory)

7 x 2 = 14

- Why does a ray of light bend when it travels from one medium to another?
- Ice is kept in a double-walled container. Why?
- What is specific heat capacity?
- What are the uses of plaster of paris?
- Define aquaregia.
- Carbon forms only covalent compounds. Why?
- Write all possible isomers of C_4H_{10} .
- Distinguish between Virion and Viriod.
- What is triple antigen? Mention the disease which can be prevented by using the antigen.
- What do you conclude about the speed of light in diamond. If the refractive index of a diamond is 2.41?

(2)

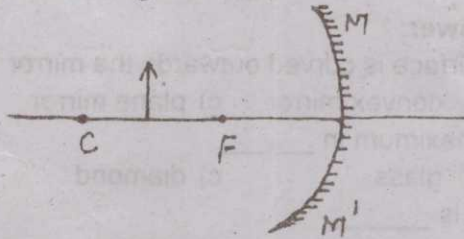
IX Science

Part - III

III. Answer any 7 questions: (Ques.No.32 is compulsory)

7 x 4 = 28

23. a) Complete the diagram to show how a concave mirror forms the image of the object.
b) What is the nature of the image?



24. What is meant by magnification? Write its expression. What is its sign for real image and virtual image?
25. Explain convection in daily life.
26. Differentiate hydrate and anhydrous salts with examples.
27. a) Write any four uses of bases.
b) Which acid is called king of chemicals? Why is it called so?
28. What can you do to prevent plastic pollution?
29. Name the three safer resin codes of plastics and describe their features.
30. Suggest the immunization schedule for a new born baby till 12 months of age. Why it is necessary to follow the schedule?
31. Expand the following: a) ORS b) HIV c) DPT d) BCG
32. What is the heat in joules required to raise the temperature of 25 grams of water from 0° to 100°C ? What is the heat in calories? [Specific heat of water = $4.18 \text{ J/g } ^{\circ}\text{C}$]

Part - IV

IV. Answer all the questions:

3 x 7 = 21

(Draw diagrams wherever necessary)

33. a) Draw ray diagrams to show how the image is formed using a concave mirror, when the position of object is (i) at C (ii) between C and F (iii) between F and P of the mirror
b) Mention the position and nature of image in each case.
(or)
c) What are the changes of state in water? Explain.
34. a) Write any five uses of salts.
b) Give the tests to identify Acids and Bases.
(or)
c) What is catenation? How does carbon form catenated compounds?
35. a) Describe the role of microbes in agriculture and industries.
(or)
b) Explain the various types of viruses with examples.
c) What is vaccines? Write its types.
