

DEVAMATHA CMI PUBLIC SCHOOL
ANNUAL EXAMINATION 2017-2018

Std. VIII**SCIENCE**

Time : 3 h.

Marks : 80

PART A - PHYSICS (27 marks)

- I Choose the correct answer from the options given below : (1x5=5)
1. Which planet is called the morning star?
 - a) Mars
 - b) Mercury
 - c) Saturn
 - d) Venus
 2. The force that exists between two heavenly bodies is :
 - a) Magnetic force
 - b) Gravitational force
 - c) Frictional force
 - d) Electrostatic force
 3. A device used to test the charge on an object is called :
 - a) ammeter
 - b) electroscope
 - c) seismograph
 - d) voltmeter
 4. The large number of rocky objects, that lie between the orbits of Mars and Jupiter are known as:_____
 - a) Comets
 - b) Asteroids
 - c) Meteorites
 - d) Meteors
 5. The image formed by a plane mirror is
 - a) always real
 - b) always virtual
 - c) real but diminished
 - d) Sometimes real and sometimes virtual depending upon the distance of the object from the mirror.
- II Answer the following questions in one or two sentences each : (1x2=2)
6. Why do we see only one side of the Moon from the earth?
 7. Charged comb when brought near a running stream of water can change its direction. Give reason.
- III Answer the following questions in two or three sentences each : (2x3=6)
- 8 Draw the structure of the following constellations.
 - a) Orion
 - b) Ursa Major
 9. Mention any four advantages of electroplating.
 10. A man first stands and then lies down on a sandy beach. In which case will he sink deeper and why?
- IV Answer the following questions in three or four sentences each : (3x3=9)
11. a) What causes an Earthquake ?
 - b) What are seismic zones ?
 12. An electric current is made to flow through a strong solution of common salt. Explain the electrolysis of common salt with the help of a neat labelled diagram. Identify the gas produced in the anode and cathode.

13. Consider the following sound waves marked A,B,C and D.

- a) Which two waves represent sounds of the same loudness but different pitch?
- b) Which two waves represent sounds of same frequency but different loudness?
- c) Differentiate between Infrasonic and Ultrasonic sound.

V. Answer the following question briefly : (5x1=5)

14. a) Draw a neat labelled diagram of human eye.
- b) A student finds the writing on the blackboard as blurred and unclear when sitting on the last desk in a class room. He however see it clearly when sitting on the front desk.
- i) Name the defect, the eye of the student is suffering from?
 - ii) Name the type of lens that would enable him to see the black board writing clearly.
- c) What do you mean by persistence of vision?

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PART B - CHEMISTRY (27 marks)

I Choose the correct answer from the options given below : (1x5=5)

1. Which of the following is not a characteristic of a good fuel?
- a) Low cost
 - b) high ignition temperature
 - c) leaves no residue after the burning.
 - d) produces large quantity of heat.
2. Drinking water can be made absolutely safe by adding some:
- a) aspirin tablets
 - b) iodine tablets
 - c) chlorine tablets
 - d) chlorophyll tablets

3. In a candle flame, the temperature is highest in the
 - a) yellow Zone b) blue zone c) dark zone d) red zone
4. Which of the following air pollutant reduces the oxygen carrying capacity of blood to a large extent?
 - a) Carbon dioxide b) Nitrogen monoxide c) Carbon monoxide d) Sulphur dioxide
5. The liquid metal at room temperature is :
 - a) Mercury b) Bromine c) Sodium d) Gold

II Give Scientific reason : (1x2=2)

1. LPG is preferred over petrol and diesel for household cooking purposes.
2. We are advised not to sleep in a room having closed doors and windows, with a coal fire burning inside.

III Answer the following questions in two or three sentences each : (2x3=6)

1. What is green house effect? State its importance for us?
2. Define the calorific value of a fuel.
3. What happens when Copper react with Silver nitrate? Write the word equation for it.

IV Answer the following questions in three or four sentences each : (3x3=9)

1. Why and how the increased level of nutrients affect the survival of aquatic organisms?
2. How will you show that air is necessary for combustion?
3. Write down five differences in the physical properties of metals and non-metals.

V Answer the following questions briefly : (5x1=5)

1. a) Describe the threat to Taj Mahal monument due to air pollution.
- b) Suggest the methods to control air pollution.

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PART C - BIOLOGY (26 marks)

I Choose the correct answer from the brackets : [1x3=3]

1. Structures present in the cell which is responsible for determination of the sex of a baby is
[a. cytoplasm, b. cell membrane, c. Nucleus, d. chromosome]
2. The _____ begins to be released by the testes at the onset of puberty.
[a. estrogen, b. Testosterone, c. adrenalin, d. thyroxine]
3. In human beings correct sequence of events during reproduction is
 - a. Gamete formation, Fertilization, Embryo, Zygote.
 - b. Fertilisation, Gamete formation, Embryo, Zygote.
 - c. Gamete formation, Fertilization, Zygote, Embryo.
 - d. Embryo, Zygote, Fertilization, Gamete formation.

II. Give reason: [1]

1. In human females each time during maturation and release of egg, the inner wall of uterus thickens. Is this thickening permanent?

- III Answer the following questions in two or three sentences each : [1x2=2]
1. Define the term metamorphosis. Mention the hormone which controls this process.
 2. Why do fish and frogs lay eggs in hundreds?
- IV Answer the following questions in three or four sentences each : [2x3= 6]
1. Write beneficial action of the following:
 - a) Bacteria
 - b) Fungi
 2. Draw neat labelled diagrams to show the reproduction in Amoeba.
 3. The mother is not responsible for the sex of her child. Justify the statement.
- V Answer the following question four or five sentences each : (3x3=9)

1. Copy the figure given below :
 - A] Read the following questions and label them in the Figure:
 - i) The part which produces female gamete.
 - ii) The part where development of baby takes place.
 - iii) The part through which the developing embryo passes to reach the uterus.
 - B] Explain the future development of the embryo that would take place after it gets embedded ?
2. Define the following :
 - i) Menopause
 - ii) Adam's apple
 - iii) Puberty

3. Draw a neat diagram showing the structure of a plant cell and label the following parts:

- i) Food factories of plant
- ii) Outer most Protective layer
- iii) Jelly like fluid
- iv) Controlling centre of the cell.

VI. A] Observe and Identify the diagram given below :

(5)

Identify 'a', 'b' & 'c'. & Explain each :

B] Our Government has legalised the age for marriage in boys and girls. Give reason as to why one should get married after a certain age.

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