

**St. Francis Xavier School**  
**Session: 2022-2023**  
**Practice Paper**  
**Physics**  
**Class: VII**

**Time: 1 Hour**

**Full Marks: 40**

**Answer to this practice paper must be written in the test copy.**

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**Question 1**

**(A) Choose the correct answer for each of the following:** **[ 5 x 1 = 5 ]:**

(a) During photosynthesis plants convert the light energy into:

- (i) heat energy      (ii) mechanical energy      (iii) chemical energy      (iv) solar energy

(b) 1 mL is equal to:

- (i)  $10^{-3} \text{ m}^3$       (ii)  $10^{-6} \text{ m}^3$       (iii)  $10^{-9} \text{ cm}^3$       (iv)  $10^{-12} \text{ cm}^3$

(c) The S.I. unit of current is:

- (i) ampere      (ii) volt.      (iii) resistance      (iv) coulomb

(d) When current flows clockwise direction in a coil produces:

- (i) south pole      (ii) north pole      (iii) east pole      (iv) none of these

(e) The S.I. unit of frequency is:

- (i) second      (ii)  $\text{second}^2$       (iii) metre      (iv) Hz

**(B) Name the following:** **[ 5 x 1 = 5 ]:**

(a) It is the angle between the reflected ray and the normal.

(b) It is an apparatus which measures the weight of a body.

(c) The energy possessed by a body due to its motion.

(d) It is the distance travelled in unit time.

(e) It is the quantity of heat required to raise the temperature of 1 gram of water by 1 °C.

**Question 2**

(a) Write any three differences between primary and secondary cells. [3]

(b) Draw circuit symbols for each of the following; (i) resistor (ii) battery. [2]

(c) State any two ways to increase the strength of an electromagnet. [2]

(d) What is magnetic field? State any two advantages of electromagnets. [3]

**Question 3**

(a) Why can not we hear an echo in a small room? [2]

(b) (i) What is ultrasonic sound?

(ii) A boy standing 132 m to the front of a tall mountain fire shot with a pop gun and hears the echo 0.8 later. Calculate the speed of sound at the place. [3]

(c) Write any three differences between conduction convection and radiation. [3]

(d) Draw a labelled diagram of thermos flask. [2]

**Question 4**

(a) State the three effects of heat. [3]

(b) One end of a steel girder in a bridge is not fixed but kept on rollers. Explain why. [2]

(c) State the laws of reflection of light. [2]

(d) (i) Write any two differences between real images and virtual images. [3]

(ii) What is lateral inversion?

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**Practice Paper**  
**Chemistry**  
**Class: VII**

**Time: 1 Hour**

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**Question 1.**

- a) **Fill in the blanks with the correct words given below:- [10]**
- i. Graphite is used in the core of \_\_\_\_\_ reactors.
  - ii. Iodine is insoluble in \_\_\_\_\_ but soluble in \_\_\_\_\_.
  - iii. The solid formed when hydrogen chloride gas reacts with ammonia gas is \_\_\_\_\_.
  - iv. \_\_\_\_\_ is an example of a yellow precipitate.
  - v. The coloured gas formed when lead nitrate crystals are heated is \_\_\_\_\_.
  - vi. The solid which reacts with dilute HCl and gives off a gas turning lime water milky is \_\_\_\_\_.
  - vii. An example of chemical reaction showing \_\_\_\_\_ is the reaction between copper sulphide and dilute HCl.
  - viii. Metalloids behave as non metals as they dissolve in \_\_\_\_\_ to form \_\_\_\_\_.  
[ nitrogen dioxide, oxyacids, lead iodide, nuclear, nitric acid, carbon dioxide, water, ammonium chloride, evolution of gas, alcohol ]
- b) **Convert the word equations to chemical equations and then balance each of them:-[10]**
- i. Carbon + sulphuric acid → carbon dioxide + Sulphur dioxide + water.
  - ii. Calcium nitride + water → calcium hydroxide + ammonia
  - iii. Red lead → lead monoxide + oxygen
  - iv. Sodium sulphide + hydrochloric acid → sodium chloride + hydrogen sulphide.
  - v. Sodium + oxygen → sodium oxide

**Question 2.**

- a) **What qualitative informations we get from the chemical reaction below: [4]**
- $$2\text{Cu}(\text{NO}_3)_2(\text{s}) \rightarrow 2\text{CuO}(\text{s}) + 4\text{NO}_2(\text{g}) + \text{O}_2(\text{g})$$
- (bluish-green)    (black)    (brown)
- b) **Explain the following scientific phenomena:- [6]**
- i) Silver coins when kept exposed to air for a long time, turns black.
  - ii) Burning of magnesium wire requires heat energy to be supplied, still it is not considered as endothermic reaction.
  - iii) Aluminium alloys are extensively used for making aircraft frames.
  - iv) It is advised to consume iodised salt in our diet.

- v) White precipitate is observed when colourless solutions of silver nitrate and sodium chloride are mixed.
- vi) For making ornaments alloyed gold is preferred over pure gold.

**Question 3.**

- a) **Choose the odd one out and give reason of your choice:-** [5]
- Sodium, potassium, calcium, magnesium, mercury
  - Carbon monoxide, Sulphur dioxide, nitrogen dioxide, silicon dioxide.
  - Sodium chloride, lead nitrate, silver nitrate, iron hydroxide, potassium hydroxide.
  - Aluminium, duralumin, bronze, brass,
  - Oxygen, gold, nitrogen, hydrogen.

- b) **Match and pair the following :-** [5]

**Column A**

- A.  $Zn + HCl$   
B. dirty green precipitate  
C. electric bulbs  
D. computer chips  
E. highly tensile non metal

**Column B**

- I. iron(II) hydroxide  
II. Silicon  
III. hydrogen  
IV. Carbon fibre  
V. argon

**St. Francis Xavier School**

**Session: 2022-2023**

**Practice Paper**

**Biology**

**Class: VII**

**Time: 1 Hour**

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**Question 1.**

Name the following- (5)

- The permanent tissue that has thickened corners.
- The mode of nutrition in fungi.
- The physiological process that is opposite to photosynthesis.
- The organ of excretion in annelida.
- The animal tissue that is known as a supportive tissue.

**Question 2.**

Differentiate between the following-(2x5=10)

- Autotrophic and heterotrophic mode of nutrition.
- Aerobic and anaerobic mode of nutrition.
- Ureter and urethra.
- Voluntary and involuntary muscles.
- Bacteria and fungi.

**Question 3.**

What would have happened if- (2x5=10)

- Plant leaves are devoid of stomata.
- Wastes are not eliminated from the body.
- Brain and spinal cord lacked protective fluid around them.
- There were no decomposers in the universe.

- e) No sphincter muscles are present in our body.

Question 4.

- a) Draw a neat labelled diagram of a bacterial cell.  
b) Classify bacteria according to their shapes.  
c) What are antibiotics? Give two examples.  
d) Why is milk sweet and curd sour in taste?

(3+3+2+2=10)

Question 5.

Pick out the odd one, giving reasons-(5)

- a) Metistem, parenchyma, apical. intercalary.  
b) Cardiac, adipose, smooth, skeletal.  
c) Areolar, adipose, ligament, plasma.  
d) Fungi, yeast, bacteria, mushroom.  
e) Chloroplast, stomata, grana, stroma.

**St. Francis Xavier School**  
**Session: 2022-2023**  
**Practice Paper**  
**Computer**  
**Class: VII**

**Time: 1 Hour**

**Full Marks: 40**

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**Question 1**

What do you mean by computer ethics? [3]

**Question 2**

Write down three advantages of Internet. [3]

**Question 3**

Write down two disadvantages of Internet. [2]

**Question 4**

Write down short notes on the following. [3 X 5 =15]

- a) Digital Footprint  
b) Cyber crime  
c) Cyber bullying  
d) Hacking  
e) Ordered List in HTML

**Question 5**

Write down three safety measures in computer? [3]

**Question 6**

How can you delete a column in MS-Excel? [3]

**Question 7**

What do you mean by Auto fill feature? Explain with an example. [3]

**Question 8**

Write down the use of following tags in HTML with an example each. [3 x 2 = 6]

- A) <TABLE>
- B) <MARQUEE>
- C) <TR>

**Question 9**

Convert  $(25)_{10}$  into Binary number system. [2]

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**St. Francis Xavier School**  
**Session: 2022-2023**  
**Practice Paper**  
**Mathematics**  
**Class: VII**

**Time: 1 Hour**

**Full Marks: 40**

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$\frac{3}{8}$

**SECTION- A**

**Using suitable properties, evaluate the following:-**

- 1)  $394 \times 12 + 394 \times (-2)$ . [8]  
2)  $1925 \times 101 - 1925$ .  
3)  $23 \times (-3) + (-23) \times 97$ .  
4)  $625 \times (-35) + (-625) \times 65$ .

**SECTION- B**

- 5) Find the angle which is equal to its complement? [8]  
6) Reduce the rational number  $\frac{105}{-168}$  to standard form.  
7) A shop has 500 shirts, out of which 15 are defective. What percentage of shirts are defective?  
8) Simplify the following:  $23 + 18 \div (8 - 2) + 3 \times (-4)$ .

**SECTION- C**

- 9) Two complementary angles are  $(x + 4)^\circ$  and  $(2x - 7)^\circ$ . Find the value of  $x$ . [8]  
10) Shaheen walks  $\frac{5}{6}$  km from a place P towards east and then from there  $1\frac{3}{8}$  km towards west.  
Where will be she now from P?  
11) Express  $\frac{-80}{112}$  as a rational number with numerator - 5.

- 12) Draw a number line and represent the following rational numbers on it:  $\frac{3}{2}$  and  $\frac{3}{-2}$ .

**SECTION- D**

- 13) Sujata reduced her weight by 10%. If now she weighs 41.4 kg, what was her original weight? [8]  
14) If two are supplementary angles and one angle is  $30^\circ$  less than twice the other, find the angles.  
15) In a competition, the question paper consists of 20 questions. 5 marks are awarded for every correct answer and 2 marks are deducted for every incorrect answer and 0 marks for every question not attempted. Vishal attempted 17 questions and got 11 correct answers. What is his score?  
16) In a class test containing 12 questions, 5 marks are given for every correct answers and (-2) marks are given for every incorrect answer and 0 marks are given for questions not attempted. Ayushi gets 7 correct and 5 incorrect answers. What is her score?

**SECTION- E**

- 17) In 4 years, ₹ 6,000 amounts to ₹ 8,000. In what time will ₹ 525 amount to ₹ 700 at the same rate? [8]  
18) Let A and B be two sets such that  $n(A) = 45$ ,  $n(B) = 38$  and  $n(A \cup B) = 70$ .  
Find: i)  $n(A \cap B)$  ii)  $n(A - B)$  iii)  $n(B - A)$ .

19) One angle of a triangle is  $61^\circ$  and the other two angles are in the ratio  $1\frac{1}{2} : 1\frac{1}{3}$ .  
Find the angles.

20) Find the altitude of a triangle whose base is 100 cm and area is 0.05 square meters.

**St. Francis Xavier School**  
**Session: 2022-2023**  
**Practice Paper**  
**History and Civics**  
**Class: VII**

**Time: 1 Hour**

**Full Marks: 40**

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Answer all questions:

1. Mention any two Gandhian Principles . (2)
2. What do you mean by 'Right to Freedom' (2)
3. Mention any two Directive Principles related to Economic Policy. (2)
4. Define Welfare State.(2)
5. Mention the significance of Directive Principles. (2)
6. Mention the significance of Right to Equality. (2)
7. Explain Right to Constitutional Remedies. (2)
8. Describe the Mansabdari system of Akbar. (4)
9. Describe all architectural developments of ShahJahan.(4)
10. Why Aurangzeb was responsible for decline of Mughal rule. (4)
11. Mention all teachings of Nanak. (4).
12. Mention all teachings of Christianity. (5)
13. Mention all achievements of Islam in different fields. (5)