



Padalsalai's Telegram Groups!

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- **Padalsalai's NEWS - Group**
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SHUKOOR MATRICULATION HR.SEC.SCHOL – AMBUR

7TH STANDARD THIRD TERM

SCIENCE ONE MARK MATERIAL

N.GOPINATH M.SC.,B.ED,
PG.ASST IN PHYSICS



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1. LIGHT**I. Choose the correct option**

1. Light travels only in a. It is Because of this property that are formed

- a. curved line, shadows b. straight line, shadows
c. straight line, reflection d. curved line and then straight line, Shadows

2. Light that hits a mirror gets

- a. Transmitted b. Reflected c. Absorbed d. Refracted

3. Surface reflects the light well.

- a. water b. compact disc c. mirror d. stone

4. Light is a form of

- a. matter b. energy c. medium d. particle

5. You can see your image in polished floors, but not in wooden table because

- a. regular reflection takes place in wooden table and irregular reflection in polished floor
b. regular reflection takes place in polished floor and irregular reflection in wooden table
c. regular reflection takes place in both polished floor and wooden table
d. irregular reflection takes place in both polished floor and wooden table

6. Choose the translucent substance from the following

- a. glass b. wood c. water d. Clouds

7. Reflection occurs, when the light

- a. about to reach a surface
b. approaches a surface
c. passes through a surface
d. None of these

8. Which of the following is the best reflector of light?

- a. plastic plate b. plane mirror c. wall d. paper

9. Sivarajan placed a meter stick in the playground at 7.00 am in the morning. How Will the shadow of the stick at noon look in comparison to the one in the morning

- a. There will be no shadow
b. The shadow will be longer and on the opposite side as the sun
c. The shadow will be shorter and on the same side as the sun
d. The shadow will be shorter

10. The image formed by a pinhole camera is inverted because,

- a. light travels in straight lines
b. light rays become laterally inverted as they pass through a pinhole camera
c. light rays pass through the pinhole
d. light rays get reflected

11. Which of the following facts explain how shadows are formed?

- a. Light travels in straight lines
b. Opaque bodies do not allow light to pass through them
c. Reflection occurs at a smooth surfaces like mirrors
d. Lateral inversion happens
a. both A and B b. both A and D c. both B and C d. only

II. Fill in the blanks

1. A plane mirror produces a _____ image
2. A _____ reflection helps us to see the objects
3. The light ray gets _____ when it falls on any polished surface.
4. Sunlight is a blend of _____ colours
5. The splitting of white light into seven colours is called _____
6. The moon _____ sun light
7. The sunlight can be split into its constituent colours using _____
8. Reflection of light from rough surface is called _____ reflection

III. Say TRUE or FALSE

1. The image of right hand in a plane mirror looks like a left hand
2. Rainbow is formed by dispersion of which light by water drops
3. The image formed by the plane mirror is laterally inverted, hence the image seen through the periscope is also laterally inverted
4. We see planets because they reflect light from the sun
5. We see a book because it reflects the light that falls on its surface
6. The image formed in a pinhole camera is always inverted
7. The image formed in a pinhole camera is always the same size as the object
8. The image formed in a plane mirror is upside down
9. A plane mirror is opaque
10. A shadow is formed on the same side of the object as the source of light.
11. We are able to see things around us with the help of regular reflection
12. After passing through a prism, white light splits into a band of seven colours

IV. Match the following

- | | |
|----------------------------|---------------------------|
| 1. Rectilinear propagation | - Primary source of light |
| 2. Plane Mirror | - Non-luminous object |
| 3. Fire fly | - Periscope |
| 4. The Moon | - Pinhole camera |
| 5. Wide light source | - Spectrum of light |
| 6. Regular reflection | - luminous object |
| 7. The sun | - Penumbra |
| 8. Band of seven colours | - Glossy surface |

2. UNIVERSE AND SPACE

I choose the correct answers

- The moon takes _____ days to complete one revolution around the Earth
a. 25 b. 26 c. 27 d. 28
- If the Moon is appearing in the sky today near the star Karthikai, the position of the Moon after 27 days is near the star
a. Bharani b. Karthikai c. Rohini d. Asvini
- Telescope was invented by
a. Han Lippershey b. Galilio c. Nicolus Copernicus d. Ptolomy
- The galaxy containing young and hot stars is
a. elliptical galaxy b. irregular galaxy c. cluster d. spiral galaxy
- With the launch of this satellite, ISRO became capable of launching 4 ton heavy satellites.
a. GSAT- 13 b. GSAT- 14 c. GSAT- 17 d. Way par GSAT- 19

II. Fill in the blanks.

- Waxing of moon means _____
- Heliocentric model is proposed by _____
- _____ is the prevailing model of Evolution of the Universe
- _____ is a large constellation which covers a large part of the sky.
- _____ is the first satellite launched by India

III True or False – If False give the correct answer

- On a full moon day, when the Sun is setting in the west, moon rises in the West.
- The word crescent refers to the phases where the moon is less than half illuminated.
- Galilio accepted the Geo-centric model.
- Our Milky Way galaxy is identified as an elliptical galaxy.
- The planet Venus in our solar system doesn't have a moon.

IV Match the following

- | | |
|------------------|--------------------|
| 1. Rohini | - GSLV-Mark III |
| 2. GSAT-14 | - GSLV Mark III M1 |
| 3. GSAT-19 | - SLV-3 |
| 4. Chandrayaan-2 | - PSLV-XL C25 |
| 5. Mangalyaan | - GSLV-D5 |

V Analogy

- Older stars: elliptical galaxies:: younger stars :-----
- Nearest galaxy: Andromeda:: Nearest star :-----

VI Very short answer

- The word ----- refers to the phases where the moon is less than half illuminated
(crescent / gibbous)
- And ----- planets never appear in the mid-night sky.
- Number of days taken by the Mars to orbit around the Sun.
- In which phase does the size of the planet Venus is small?
- The only evidence of the big bang theory is
- The galaxy which contains abundant amount of gas and dust is _____
- Which country launched the world's first artificial launch vehicle?

3. POLYMER CHEMISTRY

I. Choose the correct answers

- The first man-made fibre is _____
a) Nylon b) Polyester c) Rayon d) Cotton
- Which of the following is the strongest? _____
a) Rayon b) Nylon c) Acrylic d) Polyester
- When you place a natural fibre in a flame it _____
a) melts b) burns c) gets nothing d) explodes
- A synthetic fibre which has similar properties to wool is _____
a) Nylon b) Polyester c) Acrylic d) PVC
- A good application of plastic is the use of _____
a) Blood bags b) Plastic cutlery c) Plastic straws d) Plastic carry bag
- _____ is a non-biodegradable material
a) Paper b) A plastic bottle c) Cotton cloth d) Wool
- PET is the acronym for _____
a) Polyester b) Polyester and terylene
c) Polyethylene terephthalate d) Polyetheneterylene

II. Fill in the Blanks

- _____ is an example of polyester fabric.
- _____ are used to identify different types of plastics.
- A _____ is a long chain made up of many repeated small units called monomers.
- A natural fibre is called _____
- A natural fibre obtained by boiling cocoons is called _____

III. True or False

- a lot of plastic pollutes our environment.
- Refuse (avoid) is the best way to manage _____ plastic.
- It is good to wear clothes made of synthetic fibres while cooking.
- Degradable plastics break down into tiny pieces called micro plastics.
- Cotton is a natural polymer.

IV. Match the Following

| | |
|-----------|-------------------------|
| Nylon | - Thermoplastic |
| PVC | - Thermosetting plastic |
| Bakelite | - Fibre |
| Teflon | - Wood pulp |
| Rayon Non | - stick cookwares |

V. Arrange in Correct Sequence

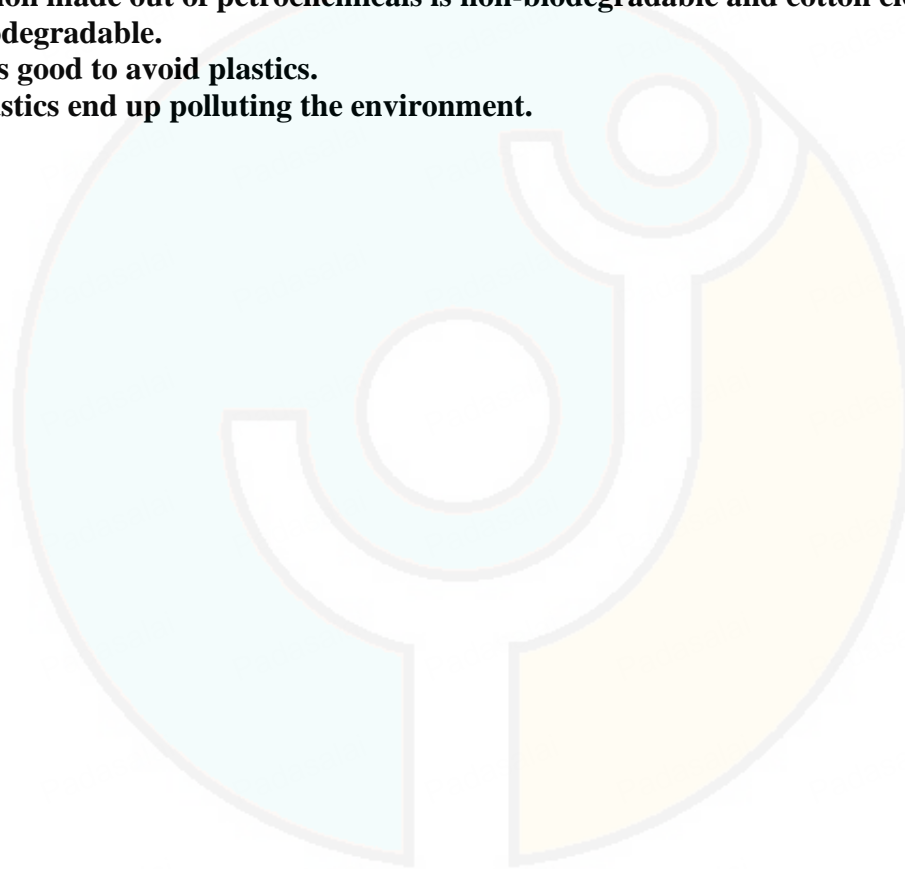
- Mix water, starch, vinegar and glycerine in a cooking pot.
- Let the article cool for 24 hours before we use it.
- Shape material to form a cup or bowl.
- Continuously mix on medium heat until the liquid turns clear.
- When the liquid begins to bubble it is ready to be taken off the stove.
- Spread the gel onto aluminium foil and cool.

VI. Analogy

1. Cotton: natural: Polyester: _____
2. PLA spoon: compostable: Plastic spoon: _____
3. Nylon: melts on heating: Silk: _____

VII. Assertion and Reason

1. A: Vegetable peels buried in the soil disappear within two weeks.
R: Vegetable peels are compostable.
2. A: It takes a very long time for nylon clothes to breakdown into microfibers but cotton Clothes need only six months to decompose.
R: Nylon made out of petrochemicals is non-biodegradable and cotton cloth is Biodegradable.
3. A: It is good to avoid plastics.
R: Plastics end up polluting the environment.



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4. CHEMISTRY IN DAIY LIFE

I. choose the correct answers

1. A drug effective in the treatment of pneumonia, and bronchitis, is _____
a. Streptomycin b. Chloramphenicol c. Penicillin d. Sulphaguanidine
2. Aspirin is _____
a. Antibiotic b. Antipyretic c. Sedative d. Psychedelic
3. _____ are that neutralize stomach acid.
a. Antacid b. Antipyretic c. Analgesic d. Antihistamines
4. The lowest temperature at which a substance catch the fire is called its _____
a. Boiling point b. Melting point
c. Critical temperature d. Ignition temperature.
5. Which is the hottest part in the flame of candle _____
a. Blue b. Yellow c. Black d. Wax part

II. Fill in the blanks.

1. Penicillin was first discovered by _____
2. World ORS Day is _____
3. Combustion is a chemical reaction in which and substance react with _____
4. In the presence of water, the ignition temperature of paper is _____
5. Fire produced by oil cannot be controlled by _____

III True or False – If False give the correct answer

1. Antibiotics does work for viruses like cold and
2. Analgesics are the substances that lower the temperature during fever.
3. All fuels form flame.
4. Oxygen is necessary for combustion
5. Burning wood and coal causes pollution of air.

IV Match the following

- | | |
|-----------------------|---------------------------------|
| 1. Antipyretic | - reduce pain |
| 2. Analgesic | - reduce body temperature |
| 3. Antacid | - spontaneous combustion |
| 4. Phosphorus | - ORS Solution |
| 5. Carbon – di –oxide | - leads to respiratory problem. |

V Analogy

1. Inner zone of flame: -----, outer zone of flame: -----
2. Tincture: -----, cistamine: -----.

VI Very short answer

1. First viral disease detected in human being was: ----- (Yellow fever / dengue fever)
- 2.:------, -----,;----- are called greenhouse gases (Fleming / lenis pastor)
3. Name a substance which can be used as an antiseptic as well as disinfectant?
4. What are the main constituents of Dettol?
5. Name the unit in which the calorific value of a fuel is expressed?
6. How many types of combustion are there?
7. What are the essential requirements for producing fire?

5. ANIMALS IN DAILY LIFE

I. Choose the correct answers

- _____ is the daily essential product which is obtained from cattle.
a) Egg b) Milk c) Both of them d) none of them
- Eggs are rich in _____.
a) Protein b) Carbo hydrate c) Fat d) Acid
- Which parts of the goat and sheep is used for manufacturing clothes.
a) Leg b) Hand c) Hair d) Head
- The cultivation and production of silk is known as _____.
a) Horticulture b) Floriculture c) Agriculture d) Sericulture
- Sorter's Disease is otherwise known as _____.
a) Asthma b) Anthrax c) Typhoid d) Cholera

II. Fill in the blanks.

- Proteins and _____ is rich in milk.
- _____ is extracted from bee hives.
- Anthrax is caused by _____.
- _____ is the strongest natural fibre.
- Peace silk was produced in the year _____.

III. True or False – If False give the correct answer

- Animals are the greatest gift of nature.
- Horse hair is used as bristles in small painting brushes.
- Wool is the fibre derived from the silk worm.
- Ahimsa silk is otherwise known as Mulberry silk.
- Penicillin is the best medicine for curing Anthrax.

IV. Match the following

- | | |
|-----------------|------------------|
| 1. Cocoons | - Meat |
| 2. Peace silk | - Poultry |
| 3. Broilers | - Silk worm |
| 4. Sweet Liquid | - Andhra Pradesh |
| 5. Goat | - Honey |

V. Analogy

- Water: pipe: Electric current::
- Copper: conductor: wood::
- Length: metre scale: current::
- Milli ampere: micro ampere: 10^{-3} A ::

VI. Very short answer

- Write about any two dairy products.
- What are the two types of fibres that are obtained from animals?
- What is shearing?
- Write the symptoms of Anthrax
- Define – Sericulture
- How should we treat animals?
- Who invented the Ahimsa silk?

7. HARDWARE AND SOFTWARE**I. Choose the correct answer.**

1. The Keyboard shortcut is used to copy the selected text

- a) Ctrl+c b) Ctrl+v c) Ctrl+x d) Ctrl+A

2. The Keyboard shortcut is used to cut the selected text

- a) Ctrl+ c b) Ctrl+v c) Ctrl+x d) Ctrl+A

3. How many types of page orientation are there in Libre office Writer?

- a)1 (b) 2 (c) 3 (d) 4

4. If the ruler is not displayed in the screen, _____ option is clicked.

- a) View-> ruler b) view-> task c) file-> save d) edit->paste

5. The menu is used to save the document

- a) File-> open b) file-> print c) file-> save d) file->close



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