PLACID VIDYA VIHAR SR. SEC. SCHOOL
CHETHIPUZHA
FORMATIVE ASSESSMENT 3 - 2015-16

STD: X   Time: 1 hr.   Max. Marks: 25

SECTION A – READING (5 MARKS)

1. Read the following passage carefully.

ECO - FRIENDLY PAPER

Handmade paper is an eco - friendly product and the demand for it is growing rapidly in the world. It is considered the best form of recycled paper. Not only does it have an elegant and exquisite surface for writing but also is very strong and indestructible. Artists find that it has an unmatched texture for drawing. It also helps in preventing water, land and air pollution. Very small quantities of chemicals are used in its preparation. Paper manufacturing has been one of the traditional industries of the world since its invention in China dates back to 105 AD. The Indians probably used the paper made from cellulosic fibres during the third century AD. Before this period the leaves of palm trees were used in India. Papyrus, a kind of paper made from a reed of the same name that grew on the banks of the River Nile, was used in Egypt. The handmade paper industry which flourished in India during the Mughal period declined with the establishment of paper mills in the 18th and 19th centuries. Inspired by Mahatma Gandhi it was revived during the freedom movement.

1.1. Based on your reading complete the following sentences.

   a. Handmade paper is popular nowadays because ----------------------

   b. Artists approve it for drawing because --------------------------------

   c. Environmentalists call it eco-friendly because --------------------------

   d. Handmade paper industry suffered a decline in 18th and 19th century because ---------

   e. The word in the passage that means 'thrived' is ----------------------

SECTION B – WRITING AND GRAMMAR (10 MARKS)

2. You often notice people throwing eatables, wrappers, orange and banana skins in the tourist spots all over; unmindful of the pollution they cause and invite criticism from foreign visitors and tourists. Write an article on the situation and also mention ways to conscientize the people.   (5 marks)

3. Complete the following passage choosing the best alternative given.   (4 marks)

One hot day in December, I (a) -------- been standing perfectly still for a few minutes (b) ------- the dry weeds, (c) ---------------- a slight rustling sound (d) ------------- from near my feet, and glancing down, I saw the head (e) ---------------- neck of a large serpent (f) ------------- slowly past me. In a moment or two, the flat head was lost (g) ------------ sight among the weeds, (h) ---------- the long body continued moving slowly by.

(a) 1. has   2. have   3. had   4. having

(b) 1. in   2. among   3. between   4. under

(c) 1. when   2. where   3. while   4. why

(d) 1. come   2. comes   3. coming   4. came

(e) 1. or   2. and   3. but   4. so

(f) 1. crawl   2. crawls   3. crawled   4. crawling

(g) 1. to   2. in   3. at   4. by

(h) 1. and   2. still   3. though   4. yet

4. Complete the following newspaper report accompanying the headlines by filling in the blanks.   (1 mark)

    a. BAN ON SMOKING

       Smoking ----------------- in all public places.

    b. GIRL KILLED BY LEOPARD

       A girl ---------------- killed today when a leopard attacked her at Sheetalakhet area of Almora district, an official said.

SECTION C – LITERATURE AND LONG READING TEXT (10 MARKS)

5. Read the following extract and answer the questions that follow.   (3 marks)

The very deep did rot: O Christ!

That ever this should be!

Yea, slimy things did crawl with legs upon the slimy sea

    a. Who is the speaker?

    b. What does 'the very deep' refer to?

    c. Identify the poetic device used in 'slimy sea'

6. Answer the following questions in about 30 words.   (2 marks each)

    a. Why did Patol Babu leave without taking the money?

    b. What moral is Shelley teaching through his poem?

7. Answer the following in about 50 words.   (3 marks)

"I took a long leap from a child's interest in fairy tales and toys to the appreciation of the real and earnest in the workaday world." Explain.

<center>OR</center>

How was Mr. Irons instrumental in boosting Helen's love for literature?

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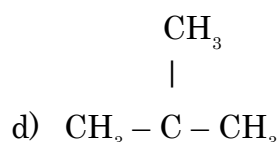
BASIC SCIENCE

Physics

I. Answer the following.
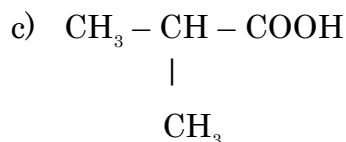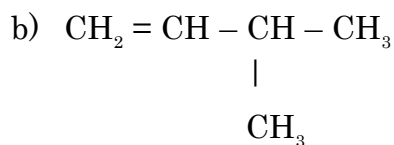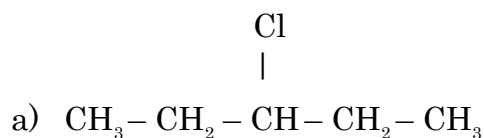
1. Define absolute refractive index of a medium and write its mathematical expression.
                                                                                                                        [1]

2. Name the type of mirror used in the following situations and support your answer with reason.

    a) head lights of a car

    b) solar furnace   [2]

3. a) With the help of a diagram, show that when light falls obliquely on a side of a rectangular glass slab, the emergent ray is parallel to the incident ray.

    b)Show the lateral displacement of the ray on the diagram.   [2]

4. A convex mirror used in a bus has a radius of curvature 3.5m. If the driver of the bus locates a car at 10m behind the bus, find the position, nature and size of the image of the car.   [3]

Chemistry

I. Answer the following.

1. Draw the electron dot structure of ketone having three carbon atoms. Also name this compound.   [1]

2. Write IUPAC names of the following compounds.

    a)
$$\underset{\underset{\displaystyle CH_3}{\overset{\displaystyle Cl}{|}}}{}$$

    a) $CH_3 - CH_2 - \overset{\overset{\displaystyle Cl}{\displaystyle |}}{CH} - CH_2 - CH_3$

    b) $CH_2 = CH - \underset{\underset{\displaystyle CH_3}{\displaystyle |}}{CH} - CH_3$

    c) $CH_3 - \underset{\underset{\displaystyle CH_3}{\displaystyle |}}{CH} - COOH$

    d) $CH_3 - \overset{\overset{\displaystyle CH_3}{\displaystyle |}}{\underset{\underset{\displaystyle CH_3}{\displaystyle |}}{C}} - CH_3$ [2]

3. Write the structural formulae of the 3rd and 5th members of homologous series of carbon compounds represented by the general formula $C_nH_{2n+1}OH$ and $C_nH_{2n+1}COOH$.

[2]

4. Define the following terms giving examples.

(Two examples for each)

a) Isomerism

b) Functional group [3]

Biology

1. Define fragmentation. [1]

2. Give one example of a unicellular organism and one example of a multicellular organism which reproduces by budding. [1]

3. Mention two functions of the human ovary. [2]

4. Write the role of Placenta. [2]

5. Draw a labelled diagram of the human female reproductive system. [3]

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SOCIAL SCIENCE

General Instructions.

a) *There are 11 questions in all.*

b) *Questions from serial number 1 to 5 are questions of 1 mark each.*

c) *Answers of 3 marks questions should not exceed 80 words each.*

d) Answer of 5 marks question should not exceed 120 words.

1. Define Pressure-Groups.   (1)

2. Why is currency accepted as a medium of exchange in India?   (1)

3. Write any one objective of the SEZS developed by the govt. of India.   (1)

4. Which is the most indispensable mineral used in electric & electronic industries? (1)

5. What is the main contribution of the French Revolution to the world?   (1)

6. "Democracy evolves through popular struggles" which political values are reflected by this statement.   (3)

7. Define the terms Globalization & Liberalization.   (3)

8. Mention any three characteristics each of the formal & informal source of credit in India.   (3)

9. Describe any three non-conventional source of energy.   (3)

10. Why did nationalist tension emerge in the Balkans? Write any three reasons.   (3)

11. Why is conservation of minerals important? suggest four methods of conservation.   (5)

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MATHEMATICS

I. Questions 1-4 carry 1 mark each.   **[1×4=4]**

1. For what values of k does the equation $kx^2+6x+k=0$ have real and equal roots?

2. Find the first term of an AP, whose sum of the first n terms is $3n^2-n$ and common difference is 6.

3. Which term of the AP : 5, 2, -1, ... is -49?

4. AB is the diameter of a circle with centre O. If the coordinates of A and B are (2, 3) and (-6, 7), find the coordinates of the centre O.

II. Questions 5-8 carry 2 marks each.   **[2×4=8]**

5. Which term of the AP 6, 13, 20, 27, ... is 98 more than its 24th term?

6. Find the nature of roots of the quadratic equation

   $$\sqrt{2}\,x^2 - \frac{3}{\sqrt{2}}x + \frac{1}{\sqrt{2}} = 0$$

7. If the point P(x, y) is equidistant from A(5, 1) and B(-1, 5), then prove that 3x=2y.

8. Prove that the points (2, -2), (-3, 8) and (-1, 4) are collinear.

III. Questions 9-11 carry 3 marks each.   **[3×3=9]**

9. In a garden bed, there are 23 rose plants in the first row, 21 in the 2nd, 19 in the 3rd row and so on. There are 5 plants in the last row. How many rows are there of rose plants? Find the total number of rose plants in the garden.

10. Solve the following quadratic equation for x

    $p^2x^2 + (p^2 - q^2)x - q^2 = 0$

11. Determine the ratio in which the straight line x-y–2=0 divides the line segment joining (3, -1) and (8, 9)

IV. Question 12 carries 4 marks.   **[4×1=4]**

12. In a flight of 600 km, an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 km/hr and the time of flight increases by 30 minutes. Find the original duration of flight and speed of the plane.

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MALAYALAM

I. ബ്രായ്ക്കറ്റിൽ നിന്നും ശരിയായ ഉത്തരം തെരഞ്ഞെടുത്തെഴുതുക.   (2)

    1. പകൽക്കിനാവ് എന്നർത്ഥം വരുന്ന പ്രയോഗം ഏത്? (കിനാവ്, സ്വപ്നം, സങ്കൽപം, ദിവാസ്വപ്നം)

    2. ---------- ജീവിതത്തിന്റെ മൂകവേദനയിങ്കൽ നീ മുങ്ങുക്കിടക്കുന്നു. ഏതിന്റെ?

       (ഗ്രാമം, നഗരം, സ്വർഗ്ഗം, തെരുവ്)

    3. ഭാഗവതം പരിഭാഷപ്പെടുത്തിയ കവിയാര്?

       (പി. ഭാസ്ക്കരൻ, സക്കറിയ, കെ. അയ്യപ്പപ്പണിക്കർ, അക്കിത്തം)

    4. ഞങ്ങളുടെ നാട്ടിൽ മൂന്നുതരം ആളുകളാണ് അന്നൊക്കെ ഉണ്ടായിരുന്നത്. ഇതിൽ പെടാത്തത്?

       (നടക്കുന്നവർ, കളിക്കുന്നവർ, പണി ചെയ്യുന്നവർ, കുളിക്കുന്നവർ)

II. വിപരീതപദം എഴുതുക.   (½)

    വിരളം

III. ര ു പര്യായപദമെഴുതുക.   (2)

    1. ആട്   2. സന്ദേഹം

IV. നാനാർത്ഥം എഴുതുക.   (2)

    1. പ്രമാണം   2. സുപ്രഭാതം

V. എതിർലിംഗം എഴുതുക.   (½)

    വിനീത

VI. അർത്ഥവ്യത്യാസം എഴുതുക.   (1)

    പ്രധാനം – പ്രദാനം

VII. പിരിച്ചെഴുതി സന്ധി നിർണ്ണയിക്കുക.   (2)

    1. മുറ്റങ്ങൾ   2. നിസ്സന്ദേഹം

VIII. വിഗ്രഹിച്ച് സമാസം നിർണ്ണയിക്കുക.   (2)

    1. ഇടവഴി   2. മുക്കുറ്റിപ്പൂവ്

IX. പ്രയോഗം മാറ്റുക.   (1)

    ഞാൻ ദേശസംസ്കാരത്തെ തിരിച്ചറിയണം

X. അർത്ഥവ്യത്യാസം വരാതെ വിധിവാക്യത്തെ നിഷേധവാക്യമാക്കി മാറ്റുക.   (1)

    ഉരുളികുന്നത്ത് നേരിട്ട് വെയിലടിച്ച് തിളങ്ങുന്ന ഇടങ്ങൾ ചുരുക്കമാണ്.

XI. വാക്യത്തിൽ തെറ്റുണ്ടെങ്കിൽ തിരുത്തുക.   (1)

    ഉരുളികുന്നത്തെ മനുഷ്യർ എന്നെ ചിരിക്കാൻ സന്തോഷിക്കാൻ പഠിപ്പിച്ചു.

XII. സങ്കീർണ്ണക വാക്യമാക്കുക.   (1)

    എന്നിലെ ബുദ്ധിജീവി ദുസ്വപ്നങ്ങൾ കാണുന്നു. എന്നിലെ മണ്ണണ്ണി വേറെ ഒന്നാന്തരം ഉറപ്പുകൾ തരുന്നു.

XIII. ഉത്തരം എഴുതുക.

    1. 'അടുത്തൂൺ' എന്ന കവിതയ്ക്ക് ആസ്വാദനം തയ്യാറാക്കുക.   (3)

    2. ആ ഭാഷയുടെ പിന്നിൽ ഒരു ജീവിതലാളിത്യമുണ്ടായിരുന്നു. ആരുടെ ഭാഷ? പാഠമേത്? ഈ അഭിപ്രായത്തിന്റെ
       സാധൂകരണമാണോ പാഠഭാഗം? വിലയിരുത്തുക.   (3)

    3. മുത്താമ്മയുടെ കീഴിൽ അപ്പുവിന് ലഭിച്ച വിദ്യാഭ്യാസത്തെക്കുറിച്ച്
       വിശദീകരിക്കുക.   (3)

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HINDI

I.(क) निर्देशानुसार वाक्य परिवर्तन कीजिए -   (3)

     (i) कर्मवीर कभी हार का मुँह नहीं देखते। (मिश्रित वाक्य में)

     (ii) जो लोग परिश्रम करते हैं, उन्हें अधिक समय तक निराश नहीं होना पड़ता।
        (सरल वाक्य में)

     (iii) मैंने उसे पढ़ाकर नौकरी दिलवाई। (संयुक्त वाक्य में)

 (ख) निम्नलिखित वाक्यों को शुद्ध कीजिए -   (4)

     (i) प्राण निकल गया।

     (ii) हम आपके घर कल आएगा।

     (iii) मैं दसवें कक्षा में पढ़ता हूँ।

     (iv) मैं सुबह को जाऊँगा।

II. निम्नलिखित प्रश्नों के उत्तर लिखिए -   (10)

 (क) पीटी साहब की 'शाबाश' फ़ौज के तमगों -सी क्यों लगती थी? स्पष्ट कीजिए।

 (ख) ओचुमेलॉव के चरित्र की विशेषताओं को अपने शब्दों में लिखिए।

 (ग) बढ़ती हुई आबादी का पर्यावरण पर क्या प्रभाव पड़ा?

 (घ) कवि ने दधीचि, कर्ण आदि महान व्यक्तियों का उदाहरण देकर मनुष्यता के लिए क्या संदेश दिया है?

III. भाव स्पष्ट कीजिए -   (3)

 (क) जगतु तपोबन सौ कियौ दीरघ-दाघ निदाघ।

 (ख) दे प्रकाश का सिंधु अपरिमित,
     तेरे जीवन का अणु गल गल।

IV. लगभग 20 से 30 शब्दों में सूचना - लेखन लिखिए -   (5)

     आपकी घड़ी खो गई है - विद्यालय सूचनापट पर सूचित करें।