PLACID VIDYA VIHAR SR. SEC. SCHOOL
CHETHIPUZHA
FORMATIVE ASSESSMENT II - 2016-17

CLASS : X   **BASIC SCIENCE**   Time : 1 hr.
Max. Marks : 25

Physics

Answer the following.

1. Name and state the rule used for finding the direction of magnetic field produced by a straight current carrying conductor. (1)

2. Mention any four differences between permanent magnet and an electromagnet. (2)

3. The magnetic field produced by a current carrying circular coil having n turns is equal to n times the magnetic field produced by a current carrying circular coil having a single turn. Explain why? (2)

4. a) Draw the magnetic field lines around a bar magnet.

   b) A horizontal power line carries current is east to west direction. What is the direction of magnetic field due to the current in the power line at a point above and at a point below the power line?

   c) List any two properties of magnetic lines of force. (3)

Chemistry

Answer the following.

1. Write the chemical formula of any two hydrated salts which are coloured. (1)

2. An aqueous solution of sodium carbonate is basic. How will you account for it? (2)

3. A milkman adds a very small amount of baking soda to fresh milk.

   a) Why does he shift the p^H of the fresh milk from 6 to slightly alkaline?

   (b) Why does this milk take a long time to set as curd? (2)

4. What are the three products of Chlor-alkali process? Write one commercially important material each that can be prepared from each of these products. (3)

Biology

1. Write the components of peripheral nervous system. (1)

2. Name the stress and fear hormone. (1)

3. A young green plant receives sunlight from one direction only. What will happen to its shoots and roots? (2)

4. a) Which plant hormone is present in greater concentration in the areas of rapid cell division?

   b) Give one example of a plant growth promoter and plant growth inhibitor. (2)

5. a) Which part of the brain controls involuntary actions?

   b) Write the function of any two regions of it. (3)

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STD : X   **ENGLISH**   Time : 1 hr.

Max. Marks : 25

SECTION A – READING (5 marks)

1. Read the following paragraph.

BELGIAN CHOCOLATES

In Belgium, newspapers refer to their country as the Kingdom of Chocolates. With hundreds of chocolate factories turning out some 140000 tonnes a year, Belgian chocolate is a big business and employs nearly 72000 people. How Belgium became the world's chocolate capital relates partly to its colonial past in Africa, giving it special ties to cacao producers. According to Dirk Arens, Director of Operations, at the big Nuehaus plant, the secret of their success is that the Belgian taste in chocolate seems to be universal and they are fortunate to possess traditional craftsmanship for making fine chocolate.

Most Belgian chocolate makers learn their craft at vocational schools before being apprenticed to a master chocolatier. Once, on their own, they use the cacao beans, roast them longer, and then grind the particles to a miniscule 20 to 35 microns for a super velvety texture. They make it rich: pure cocoa content in Belgian chocolate ranges from 35 to 43% and even higher. It also helps that the Belgian government takes chocolates seriously. In 1975, it decreed that only products made of cacao beans, cocoa butter and sugar could be labelled chocolate. That ruled out the cheaper vegetable used in many countries as a substitute for some cocoa butter and spurred Belgian chocolatiers to aim high and pay attention to detail. That simple, elegant, little chocolate box with a little ribbon around it called a ballotin, was invented in 1912 by a meticulous member of the Neuhaus clan to protect packed chocolates.

1.1 Based on your reading complete the following sentences by selecting the most appropriate option from those given below.

   a. The Belgian chocolate is popular because ——————
      i. It has a sweet taste
      ii. It has a unique flavor
      iii. It is produced on a large scale
      iv. Its taste is universal

   b. For making fine chocolate, Belgian factories employ ———
      i. Skilled young men
      ii. Foreign consultants
      iii. Traditional craftsmen
      iv. People with fine taste

c. Belgium is called the Kingdom of chocolates because ———
   i. Belgian chocolate is a big business
   ii. Chocolate kings rule over Belgium
   iii. Chocolate making is its only business
   iv. Capitalists invest only in chocolate
d. Nuehaus clan protected its packed chocolates by using ——
   i. Gelatin
   ii. Guillotine
   iii. Ballotin
   iv. Bulletin
e. The word in the passage that means 'very careful and with attention to every detail' is ———
   i. Miniscule
   ii. Decreed
   iii. Meticulous
   iv. Elegant

SECTION B - WRITING AND GRAMMAR (10 MARKS)

2. Your family celebrated your grandfather's eightieth birthday. Write a diary entry recalling the good times you have spent with your grandfather and how you felt on his eightieth birthday.
   (5 marks)

3. Read the tips given below for preparing a dessert. Fill in the blanks to describe the procedure. (2 ½ marks)
   - Mix fruit jam with water in a pan and heat.
   - Mix corn flour with water and add to jam sauce.
   - Put peach halves and a scoop of vanilla ice cream in a bowl.
   - Pour jam sauce over it.
   - Serve with wafer biscuits.

   Fruit jam is mixed with water and heated in a pan. Now, corn flour a) ————————— and b) ————————— jam sauce. Peach halves c) ————————— bowl. The jam sauce d) ————— it. The dessert e) ————————— wafer biscuits.

4. Fill the omitted word and write it in your answer sheet as shown in the example. (2 ½ marks)

   A boy drowning in a river   eg. boy <u>was</u> drowning
   and he shouted help. A   a) —————————
   man passing jumped into the   b) —————————
   river and saved his life. As man   c) —————————
   was leaving, the boy thanked him.
   The man asked him reason.   d) —————————
   The boy thanked him saving his life. e) —————————

SECTION C - LITERTURE AND LONG READING TEXT (10 MARKS)

5. Based on the extract answer the following questions. (3 marks)
   When wasteful wars shall statues overturn
   And broils root out the work of masonry
   Nor Mars his sword nor war's quick fire shall burn
   The living record of your memory.

a. Why is war 'wasteful'?

b. Who is Mars?

c. What is the rhyme scheme of this stanza?

6. Answer the following questions. (4 marks)

a. In what way is the play 'The Dear Departed' a satirical comment on the nature of human beings?

b. "The grief of separation is inescapable." Who realized this and how?

7. Answer any one of the following. (3 marks)

a. "This was my first conscious perception of an abstract idea." Describe how a concrete experience helped Helen grasp an abstract idea.

b. Which experience taught Helen that nature was not always kind?

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STD : X   <u>**MALAYALAM**</u>   Time : 1 hr.
Max. Marks : 25

I. ബ്രായ്ക്കറ്റിൽ നിന്നും ശരിയായ ഉത്തരം തെരഞ്ഞെടുത്തെഴുതുക.   (2)

1. ആധുനിക കവിത്രയത്തിൽ ശബ്ദസുന്ദരൻ എന്ന് വിശേഷിപ്പിക്കുന്നതാ
    രെയാണ്?

    (ഉള്ളൂർ എസ്. പരമേശ്വരയ്യർ, വള്ളത്തോൾ നാരായണമേനോൻ.
    എൻ. കുമാരനാശാൻ)

2. ഉതുപ്പാൻ സ്വന്തമായി സമ്പാദിച്ച ഒരു തുണ്ടു ഭൂമിയിൽ ഒരു കിണർ
    കുഴിക്കാൻ പ്രേരിപ്പിച്ച ചേതോവികാരം എന്ത്?

    (സമൂഹത്തിന്റെ പ്രശംസ പിടിച്ചുപറ്റാൻ, തനിക്കും ചില ചുമതലകളു
    ണ്ടെന്ന തോന്നൽ, അധികാരികളിൽ നിന്നു ബഹുമതികൾ നേടാൻ)

3. 'ആദിമകാവ്യം' ഏതാണ്?

    (മഹാഭാരതം, രാമായണം, ഖുർആൻ)

4. "ഒരു കൽത്തൊട്ടി ഉണ്ടാക്കി ഇടണം. പശുക്കളും വെള്ളം കുടിക്കട്ടെ"
    ഈ പ്രസ്താവന ഉതുപ്പാന്റെ ഏതു മനോഭാവമാണ് സൂചിപ്പിക്കുന്നത്?

    (സഹജീവിസ്നേഹം, ഉത്തരവാദിത്വബോധം, അധ്വാനശീലം)

II. രണ്ട് പര്യായം എഴുതുക.   (2)

1. കല്ല്   2. കൊതുക്

III. വിപരീതപദം എഴുതുക.   (½)

ഔപചാരികം

IV. എതിർലിംഗം എഴുതുക.   (½)

ഉടമസ്ഥൻ

V. നാനാർത്ഥം എഴുതുക.   (2)

1. ഗുരു   2. സൂത്രം

VI. അർത്ഥവ്യത്യാസം എഴുതുക.   (1)

1. ധാത്രി – ദാത്രി   2. ഉദരം – ഉദാരം

VII. പിരിച്ചെഴുതി സന്ധി നിർണ്ണയിക്കുക.   (2)

1. വേദോപദേശം   2. അത്യധികം

VIII. വിഗ്രഹിച്ച് സമാസം നിർണ്ണയിക്കുക.   (2)

1. ലോകോപകാരം   2. വ്യക്തിസ്വാതന്ത്ര്യം

IX. പ്രയോഗം മാറ്റുക.   (1)

ഒരു ദുരാഗ്രഹി കിണറിന്റെ തൊട്ടിയും കപ്പിയും മോഷ്ടിച്ചു.

X. അർത്ഥവ്യത്യാസം വരാതെ വിധിവാക്യത്തെ നിഷേധവാക്യമാക്കുക.   (1)

ചിലർ അവന്റെ പ്രവൃത്തിയെ മാനിക്കുകയും ചെയ്തു

XI. തെറ്റുണ്ടെങ്കിൽ തിരുത്തുക.   (1)

ഉതുപ്പാൻ നിത്യവും എന്നും രണ്ടുനേരവും കിണറ്റുകരയിൽ ചെല്ലും.

XII. ചൂർണ്ണികകളെ സങ്കീർണ്ണമാക്കുക. (1)

അവന്റെ ജീവിതാവശ്യങ്ങൾ ലഘുവാണ്. എന്നാൽ അവനതു ഗുരുവാണ്.

XIII. ഉത്തരമെഴുതുക.

1. "ആ കിണർ കുഴിച്ച കൈ കൊണ്ടുതന്നെ നികത്തുക. വീണ്ടും ജീവിച്ചിരി
   ക്കുക. നന്മയെ തടയുന്ന നാഗരികതയുടെ കാലത്ത് നന്ദികെട്ട ആളുക
   ളുടെ ഇടയിൽ ആ വൃദ്ധനേത്രങ്ങൾ കവിഞ്ഞൊഴുകി." – വൃദ്ധൻ ആര്?
   ഇങ്ങനെ ചിന്തിക്കാൻ വൃദ്ധനെ പ്രേരിപ്പിച്ച സാഹചര്യമെന്ത്? ഇത്തരം
   സാഹചര്യങ്ങൾ ഇക്കാലത്തു നിലവിലുണ്ടോ? വിലയിരുത്തുക. (3)

2. "സർക്കസുകാരൻ ഞാണിന്മേൽ നടക്കുമ്പോൾ വീഴാതിരിക്കാൻ കുട
   സഹായിക്കുന്നതുപോലെ ജീവിതത്തിൽ മുന്നോട്ടുപോകാൻ സഹായി
   ക്കുന്നതു മാതൃഭാഷയയാണ്." – എന്റെ ഭാഷ എന്ന കവിതാഭാഗത്തെ
   ആസ്പദമാക്കി മാതൃഭാഷയുടെ പ്രാധാന്യം വിശദമാക്കുക. (3)

3. ചട്ടമ്പിസ്വാമികൾക്ക് വിദ്യാധിരാജൻ എന്ന വിശേഷണം ലഭിക്കാനിടയായ
   സംഭവം എന്ത്? വ്യക്തമാക്കുക. (3)

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

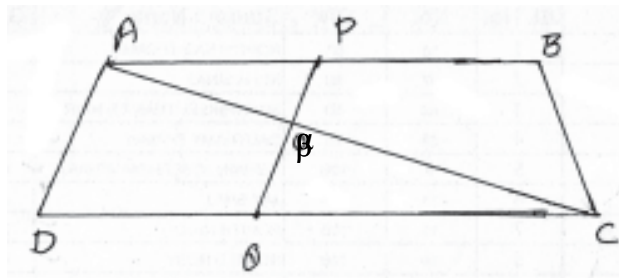### Section A   [1×2=2]

Questions (1-2) carry 1 mark each.

1. If one of the zeroes of a quadratic polynomial $(k-1)x^2+kx+1$ is -3, then find the value of k.

2. The ratio of corresponding altitudes of two similar triangles is 3:5. Find the ratio of their areas.

Section B   [2×3=6]

Questions (3-5) carry 2 marks each.

3. Find the zeroes of the polynomial $x^2-4\sqrt{3}x-15$.

4. In the given figure if AB||DC and AC and PQ intersect at point O, prove that OA×CQ=OC×AP.

5. In $\triangle$ABC, DE||BC, If AD=x-3, AB=2x, AE=x-2, AC=2x+3, find the value of x.

Section C   [3×3=9]

Questions (6-8) carry 3 marks each.

6. If   and   are zeroes of the polynomial $x^2-2x-15$ then form a quadratic polynomial whose zeroes are 2α and 2 .

7. State and prove basic proportionality theorem.

8. What must be subtracted from $4x^4 + 2x^3 - 2x^2 + x - 1$ so that the resulting polynomial is divisible by $x^2 + 2x - 3$?

Section D   [4×2=8]

Question (9&10) carry 4 marks.

9. Find all the zeroes of the polynomial $p(x) = 2x^4+7x^3-19x^2-14x+30$, if two of its zeroes are $\sqrt{2}$ and $-\sqrt{2}$.

10. The perpendicular from vertex A to side BC of a triangle ABC intersects BC at D such that BD = 3CD. Prove that $2AB^2 = 2AC^2+BC^2$.

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STD : X   **SOCIAL SCIENCE**   Time : 1 hr.
Max. Marks : 25

General Instructions.

a) *This question paper contains 11 questions.*

b) *Questions from serial number 1 to 5 should answer in a word or a sentence.*

c) *Answers of 3 marks questions should not exceed 30 words each.*

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

1. What was the first modern novel in Malayalam? Who was its author? (1)

2. What is Narmada Bachao Andolan? (1)

3. Distinguish between endangered and endemic species. (1)

4. 'It is a truth universally acknowledged that a single man in possession of a good fortune must be in want of a wife'. This observation is made based on a novel. What was the novel? Who was its author? (1)

5. State the main reason of Civil Rights Movements in USA during 1954-1968. (1)

6. Explain over-lapping and cross-cutting difference with examples. (3)

7. Describe the three factors which determine the outcome of the politics of social divisions. (3)

8. How have human activities caused the depletion of flora and fauna? Write six reasons. (3)

9. How did colonizers and nationalists make use of novels in colonial India? (3)

10. Describe how the works of Munshi Prem Chand reflects the social conditions of the Indian society in the early 20th century. (3)

11. What are the causes of water scarcity in India? Justify roof top rain water harvesting is the best solution. (5)