

PLACID VIDYA VIHAR SR. SEC. SCHOOL

CHETHIPUZHA

FORMATIVE ASSESSMENT 3 - 2015-16

STD: IX Time: 1 hr.

Max. Marks: 25

SECTION A (READING)

1. Read the passage and complete the sentences given below. (5)

Building dams over rivers is like clotting the blood of nature and stopping its pulse beat. Scientists have proved that dams and embankments cause more floods and do more harm than good. Flooding is a boon of nature. It cleanses and renews river basins, expands feeding and breeding grounds of plants, fish, birds and wildlife, and spreads fresh layer of fertile silt from which we get bumper crops. Philip Williams, President of the International Rivers Network says, "We are recognizing the value of natural flood plains in slowing down flooding, improving water quality and assisting in protection of the ecosystem". Governments must not allow construction contractors who are largely responsible for man – made floods to plunder the timber wealth of forests.

Many countries, such as Japan, the U.S, Germany and England have begun to pay more attention to waste reduction measures and plans to reduce global warming. The Japanese solution to environmental hazards is burning, burying, reducing and recycling waste products. Every Japanese community makes use of incinerators for garbage disposal. In the U.S, more than 2000 garbage burning plants work day and night in addition to 125 large incinerators. Another Japanese solution is aqua culture which they have introduced in their industries to keep them clean. An Italian chemical giant has manufactured a plastic substitute which reduces the greenhouse effect.

- (a) We only indulge in clotting the blood of nature and stopping its pulse beat by
- (b) The construction contractors are largely responsible for man – made floods as they help them in
- (c) Many countries have started paying more attention to waste reduction measure and they are trying
- (d) In addition to 125 large incinerators, U.S has
- (e) An Italian chemical giant has produced a plastic substitute that can help in

SECTION B (WRITING & GRAMMAR)

2. You are Aman Yadav. Taking help of the points given below, write a letter to the Editor of a newspaper expressing your concern regarding the health hazards caused by junk food and its long lasting effects. (5)

- * Cheap, tasty and saves time
- * Zero nutritional value
- * Disastrous effect on body
- * Leads to diseases like tension, blood clotting, depression etc.
- * Below standard

3. Choose the most appropriate option from the brackets to complete the following passage. Write the answers in your answer sheet against the correct blank number. (3)

The next morning I found myself somewhat refreshed (a) (so, but, and, or) I was extremely hungry. (b) (Before, When, While, Whereas) it became bright enough for me to see my surroundings, I noticed that I was near a large ship, (c) (where, when, which, who) seemed to be unloading a cargo of pig – iron. I went at once to the vessel (d) (and, but, so, or) asked the captain to permit me to help unload the vessel (e) (as, so, such, and) that I might get money for food. The captain (f) (which, who, whom, when) seemed to be kind – hearted at once consented.

4. Read the process given below and complete the paragraph in the passive voice. (3)

- * Take 750 ml of water and mix 700 g sugar.
- * Mix the entire quantity of Rasna powder and liquid into it.
- * Stir till sugar dissolves fully.
- * Filter and store in clean bottle.

750 ml of water (a) _____ and mixed with 700 g sugar. The entire quantity of Rasna powder and liquid (b) _____. It is stirred till the sugar is dissolved. The mixture (c) _____ in a clean bottle.

SECTION C (LITERATURE & LONG READING TEXT)

5. Read the extract given below and answer the questions : (3)

“Jealous in honour, sudden and quick in quarrel,
Seeking the bubble reputation,
Even in the canon’s mouth”.

- (a) Which stage of human life is described in the above extract?
- (b) Bubble reputation means _____ .
- (c) The literary device used in the above extract is _____ .

6. Answer the following questions. (30 – 40 words) (4)

- (a) Why does the poet gaze at the dentist in despair?
- (b) How did Bill Bramble regard his profession before the birth of Harold?

7. Answer any one of the following questions. (2)

Describe Montmorency’s fight with the kettle?

OR

What childhood experience of rowing by the narrator reveals that boating needs knowledge and practice?

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BASIC SCIENCE

Physics

I. Answer the following.

($\frac{1}{2} \times 2 = 1$)

1. Define the term pressure. Give its SI unit.
2. What do you understand by '1 Joule' of work?
3. Define relative density of a substance and write its formula. The relative density of a body is 2; will it float or sink in water? Give reason for your answer? (2)
4. The dimensions of wooden block are $2\text{m} \times 0.25\text{m} \times 0.10\text{m}$. If the relative density of wood is 0.6, calculate the mass of the block in kg. Density of water is 10^3 kg/m^3 . (2)
5. Derive an expression for kinetic energy of an object of mass 'm' moving with uniform velocity 'v'. (3)

Chemistry

1. a) Write the symbol of potassium.
b) What is the proportion of sodium and oxygen by mass in sodium oxide? [1]
2. a) Define polyatomic ions.
b) What do we call those particles which are formed
(i) by the gain of electrons by atoms
(ii) by the loss of electrons by atoms [2]
3. a) An element 'X' has a valency of 2. Write the simplest formula for
(i) bromide of the element X
(ii) oxide of the element X [2]
b) Write down the formulae of
(i) Ammonium sulphate (ii) Calcium hydroxide
4. A liquid compound 'X' of molecular mass 18u can be obtained from a number of natural sources. All the animals and plants need X for survival. When an electric current is passed through 200 g of X, then 176 g of gas Y and 22 g of gas Z are produced. Gas Y is produced at the positive electrode whereas gas Z is produced at the negative electrode. Gas Y supports combustion whereas gas Z itself burns.
a) Name (i) liquid X (ii) gas Y (iii) gas Z.
b) What is the simplest ratio of the mass of element Y to the mass of element Z in the liquid?
c) Which law of chemical combination is illustrated here and state the law? [3]

Biology

1. In which kingdom will you place an organism which is single celled eukaryotic and photosynthetic? [1]
2. Give one point of difference between gymnosperms and angiosperms. [1]
3. What is the criterion for classification of organisms as belonging to kingdom Monera or Protista? [2]
4. Write the differences between annelids and arthropods. [2]
5. Explain the basis for grouping of organisms into five kingdoms. [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. What is meant by Blandongdiensten system? (1)
2. What is the minimum age required to contest elections for Lok Sabha in India? (1)
3. What is meant by a by-election? (1)
4. Who was the first Inspector General of Forests in India? (1)
5. In 1971 Lok Sabha elections who gave the slogan Garibi Hatao? (1)
6. Differentiate between break in monsoon and burst in monsoon. (3)
7. Describe any five characteristic features of tropical rainforest of India. (3)
8. Define the following.
 - a) Universal Adult Franchise
 - b) Election Photo Identity Card
 - c) Voters List (3)
9. Explain the major impacts of the First World War and the Second World War on forest. (3)
10. Write any three powers of Election Commission of India. (3)
11. Briefly explain Bastar rebellion. How did British government suppress this rebellion. (5)

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MATHEMATICS

Section A

Questions 1-2 carry 1 mark each.

[1×2=2]

1. What is the mean of first 5 prime numbers?
2. In an experiment, E and F are the only two possible outcomes. If $P(E) = 0.62$ then find $P(F)$.

Section B

Questions 3-5 carry 2 marks each.

[2×3=6]

3. Find the median of the following data.
15, 28, 72, 56, 44, 32, 31, 43 and 51. If 32 is replaced by 23, find the new median.
4. Two coins are tossed 500 times simultaneously and observations are as given below.
No of heads : 2 1 0
No of times : 105 275 120
Find the probability of getting (i) at least one head (ii) no head.
5. The mean of 20 numbers is 43. If 6 is subtracted from each of the numbers, what will be the new mean?

Section C

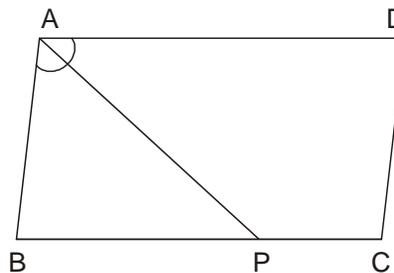
Questions 6-8 carry 3 marks each.

[3×3=9]

6. Find the value of p if mean of the following distribution is 20.

X	15	17	19	20+P	23
F	2	3	4	5P	6

7. Prove that a diagonal of a parallelogram divides it into two congruent triangles.
8. The bisector of $\angle A$ of a parallelogram ABCD bisects BC at P. Prove that $AD = 2CD$.



Section D

Question 9 & 10 carry 4 marks each.

[4×2=8]

9. Draw a histogram and a frequency polygon for the data.

Age (in years)	No of persons
0 - 4	3
4 - 8	6
8 - 12	8
12 - 16	10
16 - 20	8
20 - 24	5
24 - 28	3

10. The diagonals of a quadrilateral are perpendicular. Show that the quadrilateral formed by joining the midpoints of its side's is a rectangle.

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MALAYALAM

I. ബ്രായ്ക്കറ്റിൽ നിന്നും ശരിയായ ഉത്തരം തിരഞ്ഞെടുത്തെഴുതുക. (2)

1. കൃഷ്ണഗാഥയുടെ കർത്താവാര്യം?
(എഴുത്തച്ഛൻ, ചെറുശ്ശേരി, ഉണ്ണായിവാര്യർ)
2. ആനിമൽ പ്ലാനറ്റിൽ ഒരു കാട്ടുപോത്തിനെ രണ്ടു സിംഹങ്ങൾ ഒന്നിച്ച് ആക്രമിക്കുന്ന രംഗം വന്നപ്പോൾ കഥാ നായകൻ പെട്ടെന്ന് ഓർമ്മ വന്നതെന്ത്?
(ആമിനക്കോഴിയെ കുറുക്കൻ കൊല്ലുന്നത്, പള്ളിക്കുന്ന്, അണ്ണാച്ചിമാരുടെ കോഴിക്കച്ചവടം)
3. “പത്തഞ്ഞൂറായിരം ബാണമെയ്താർ” ആരെല്ലാം?
(കൃഷ്ണാർജ്ജുനന്മാർ, പ്രദ്യുർമനസാംബന്മാർ, രാമരാവണന്മാർ)
4. ഉമ്മയ്ക്കു ‘നൊസ്സാ’ എന്നു പറഞ്ഞത് ആര്?
(കരിനാക്കു നമ്പീസ, മുത്തത്ത, കരീം)

II. രൂപപര്യായപദം എഴുതുക. (2)

1. ശത്രു
2. സിംഹം

III. നാനാർത്ഥം എഴുതുക. (2)

1. മതി
2. പുച്ഛം

IV. വിപരീതപദം എഴുതുക. (1)

1. ഭാഗ്യം
2. ഉത്തമം

V. അർത്ഥവ്യത്യാസം എഴുതുക. (2)

1. ഗാഢം - ഗുഢം
2. ജലം - ജാലം

VI. പിരിച്ചെഴുതി സന്ധി നിർണ്ണയിക്കുക. (2)

1. കുന്നിനപ്പുറം
2. ഗുരുതരാവസ്ഥ

VII. വിഗ്രഹിച്ച് സമാസം നിർണ്ണയിക്കുക. (2)

1. ആരണശാപം
2. കാട്ടുപോത്ത്

VIII. തെറ്റുണ്ടെങ്കിൽ തിരുത്തുക. (1)

ഉമ്മ ആ നാട്ടിൻപുറമാകെ പുതിയതായി വീണ്ടും കാണുന്നതുപോലെ ചുറ്റുപാടും ഒന്നുകൂടി നോക്കുന്നതായി ഭാവിച്ചു.

IX. അംഗാംഗിവാക്യങ്ങൾ വേർതിരിച്ചെഴുതുക. (1)

രണ്ടാഴ്ചത്തെ യാത്ര കഴിഞ്ഞ് വീട്ടിലെത്തിയപ്പോൾ കോഴിക്കുഞ്ഞുങ്ങളുടെ യാതൊരനക്കവുമില്ല.

X. അർത്ഥവ്യത്യാസം വരാതെ വിധിവാക്യത്തെ നിഷേധവാക്യമാക്കി മാറ്റുക. (1)

കരിം വീട്ടിൽ നിത്യസന്ദർശകനായി

XI. ഉത്തരമെഴുതുക.

1. മിഷ്യൻ കോഴിയേയും നാടൻ കോഴിയേയും താരതമ്യം ചെയ്തുകൊണ്ട് ഉമ്മ നടത്തുന്ന അഭിപ്രായ പ്രകടനങ്ങളിൽ എന്തെല്ലാം അർത്ഥസൂചനകൾ കണ്ടെത്താനാകും. (3)
2. മദ്യപിച്ച യാദവന്മാരുടെ സ്വഭാവത്തിൽ വന്ന മാറ്റം കവി സൂക്ഷ്മമായി വർണ്ണിച്ചിരിക്കുന്നതെങ്ങനെ? (3)
3. പരിവ്രാജക ജീവിതത്തിൽ നരേന്ദ്രനുണ്ടായ അനുഭവങ്ങൾ ചുരുക്കി വിവരിക്കുക. (3)

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HINDI

- I. क. उपसर्ग और प्रत्यय में क्या अंतर है? उदाहरणों से स्पष्ट कीजिए। (2)
- ख. संधि किसे कहते हैं? कितने प्रकार के हैं? कौन-कौन से हैं?
- II. 1. निम्नलिखित शब्दों के पर्यायवाची शब्द लिखिए :- (2)
- (क) जलाशय (ख) आकाश
2. निम्नलिखित वाक्यांशों के लिए एक शब्द लिखिए :- (2)
- (क) किसी बात को बढ़ा-चढ़ाकर कहना
- (ख) कला के जानकार
- (ग) जिसका तल या सतह बराबर हो
- (घ) जिसमें विलक्षण बौद्धिक शक्ति हो
3. निम्नलिखित शब्द-युग्मों का वाक्यों में प्रयोग कीजिए :- (2)
- (क) सुख - सुविधा (ख) आस - पास
- III.1. निम्नलिखित वाक्यों के रिक्त स्थानों में न, नहीं, मत का सही प्रयोग करके लिखिए :- (2)
- (क) तुम घर ----- जाओ।
- (ख) उसे ----- जाने क्या हो गया है?
- (ग) मैं वहाँ कभी ----- जाऊँगा।
- (घ) मोहन कल ----- आएगा।
- IV.1. निम्नलिखित वाक्यों में उचित विराम चिह्न डालकर लिखिए। (2)
- (क) कीचड़ का नाम लेते ही सब बिगड़ जाता है
- (ख) लोग किन किन चीज़ों का वर्णन करते हैं
2. विलोम शब्द लिखिए। (1)
- (क) सशक्त
- (ख) अस्थायी
- V. स्कूल में दाखिला लेने के लिए मुख्याध्यापक और छात्र के बीच हुई बातचीत को संवाद के रूप में लिखिए :- (4)
- VI. निम्नलिखित प्रश्नों के उत्तर लिखिए।
- (क) रामन के लिए नौकरी संबंधी कौन-सा निर्णय कठिन था? (1½)
- (ख) कीचड़ के प्रति किसी को सहानुभूति क्यों नहीं होती? (1½)
- (ग) सुखिया के पिता पर कौन-सा आरोप लगाकर उसे दंडित किया गया? (2)
- (घ) जब शुक गाता है, तो शुकी के हृदय पर क्या प्रभाव पड़ता है? (1½)
- (ङ) स्कूल से इनाम में मिली अंग्रेज़ी के दोनों पुस्तकों ने किस प्रकार लेखक धर्मवीर भारती के लिए नयी दुनिया के द्वार खोल दिए? (1½)