

PLACID VIDYA VIHAR SR. SEC. SCHOOL

CHETHIPUZHA

FORMATIVE ASSESSMENT 4 - 2015-16

STD: IX

Time: 1 hr.

ENGLISH

Max. Marks: 25

SECTION A (READING)

1. Read carefully the passage given below and then answer the questions that follow. (5)

The Case of the Disappearing Sparrows

The common house sparrow, once seen everywhere in large numbers in Mumbai, has become scarce in many areas and this is causing concern not only to bird lovers, but also to scientists. Formerly, miners used to carry canaries down into the mines with them. If the canaries showed signs of distress, it indicated that there were poisonous gases in the air and the miners would immediately leave the mine.

Today, if the sparrows of Mumbai are in distress, it could be a warning to human residents. The declining bird population could mean that air pollution levels in the metropolis are rising dangerously or since sparrows are grain eaters, it could indicate that the grains that the people are consuming contain higher dosages of pesticides than before.

In some countries like Britain, the quality of the environment is graded according to the number of bird species found in the locality.

- (i) A bird named canary was used by miners
- (a) to tell the pollution level.
 - (b) to make holes in the stones.
 - (c) to entertain them in the mines.
 - (d) to detect poisonous gases.
- (ii) If the sparrows of Mumbai are in distress
- (a) the residents must take it as a warning.
 - (b) human residents must leave the mines.
 - (c) the Mumbaikars must leave Mumbai.
 - (d) the residents must warn the authorities.
- (iii) The declining bird population could mean that the air pollution levels
- (a) in the mines are rising dangerously.
 - (b) in the metropolis are decreasing dangerously.
 - (c) in the metropolis are rising dangerously.
 - (d) in the metropolis are rising safely.
- (iv) The grains that the people are consuming contain
- (a) higher dosages of pesticides than before.
 - (b) higher number of pests than before.
 - (c) higher dosages of medicines than before.
 - (d) higher dosages of insecticides than before.
- (v) The word in the passage which is a synonym for 'classified' is
- (a) graded
 - (b) quality
 - (c) environment
 - (d) habitat

SECTION B (WRITING & GRAMMAR)

2. Write an e-mail to your friend describing the farewell party given to your favourite teacher who retired from the school recently. (5)
3. Read the conversation and then complete the paragraph given below : (3)
- Rahul : Can you tell me how to improve English?
Teacher : It is quite easy.
Rahul : Please tell me.
Teacher : You should learn basic rules of grammar and build up your vocabulary.
Rahul asked the teacher (a) how to improve English. The teacher assured him that (b) quite easy. Rahul requested him to tell him. The teacher said (c) basic rules of grammar and build up his vocabulary.
4. The following passage has not been edited. There is one error in each line. Write the incorrect word and the correction against the blank number. (2)

	Error	Correction
Geography <u>was</u> the combination of two	(eg.) <u>was</u>	<u>is</u>
Greek words namely 'Geo' meaning the earth	(a) _____	_____
and 'graphy' means to write or describe.	(b) _____	_____
Thus the literally meaning of Geography is	(c) _____	_____
"to write on the earth including all that	(d) _____	_____
appears upon it".		

SECTION C (LITERATURE AND LONG READING TEXT)

5. Read the extract given below carefully and answer the questions that follow. (3)
- "The field and the cloud are lovers
And between them I am a messenger of mercy.
I quench the thirst of the one ;
I cure the ailment of the other".
- (a) The main figure of speech used by the poet is _____
(b) 'Quench' means _____
(c) The 'other' here refers to _____
6. Answer the following questions. (30 – 40 words) (4)
- (a) Why did John get off at Coketown?
(b) Why is the rain divine?
7. Answer any one of the following. (3)
- (a) Describe "The Pride of the Thames."

OR

- (b) What is the historical significance of Dorchester?

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BASIC SCIENCE

PHYSICS

Answer the Following.

1. What is sound and how is it produced? (½)
2. Define power. What is the commercial unit of power? (¼+¼)
3. Give four differences between longitudinal and transverse waves? (2)
4. Illustrate the law of conservation of energy considering the energy changes take place when an object is on a 'free fall'. (2)
5. Define the terms and write their SI units. (½+½+½+½+½+½=3)
 - a) Amplitude
 - b) Time period
 - c) Frequency
 - d) Wave length
 - e) Wave Velocity
 - f) Intensity

CHEMISTRY

Answer the following.

1. a) What is a group of 6.022×10^{23} particles known as?
b) What name is given to the number 6.022×10^{23} [½+½]
2. How does a proton differ from an electron? [2]
3. Give the important features of nuclear model of an atom proposed by Rutherford. What was the drawback of this model? [2]
4. a) Calculate the formula unit mass of Na_2CO_3
[At.mass of Na=23u, C=12u, O=16u]
b) Find the mass of 0.5mole of Na_2CO_3
c) How many molecules of Na_2CO_3 are present in its 1 mole? [1+1+1]

BIOLOGY

1. Define the term health. 1
2. Who discovered Small pox Vaccine? 1
3. Distinguish between acute and chronic diseases. 2
4. Name two protozoans and the diseases caused by them. 2
5. What is the basis of immunization? Name two diseases prevented by immunization. 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. Who were called amateurs in cricket? (1)
2. How are the judges of the Supreme Court and the High courts appointed? (1)
3. What refers to annual growth rate of population? (1)
4. What kind of funds are created by central government for NREGA? (1)
5. What is meant by occupational structure? (1)
6. Describe the contribution of Kerry Packer to cricket. (3)
7. Which social and economic groups are more vulnerable to poverty? (3)
8. 'The establishment of the Parsi Gymkhana became a precedent for establishing clubs on the idea of religious community'. Justify this statement. (3)
9. Define the following terms.
 - a) Birth rate
 - b) Census
 - c) Sex ratio (3)
10. Explain the composition of council of ministers of India.
How are ministers appointed? (3)
11. Briefly explain the causes of poverty in India. Describe any two current government strategies of poverty alleviation. (5)

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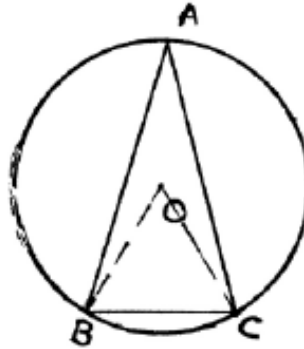
MATHEMATICS

Section A

Questions 1-2 carry 1 mark each.

[1×2=2]

1. A chord BC of a circle, with centre O, is equal to its radius. Find $\angle BAC$.



2. A triangle and a rhombus are on the same base and between the same parallels. The area of the triangle is 15 cm^2 . Find the area of the Rhombus.

Section B

Questions 3-5 carry 2 marks each.

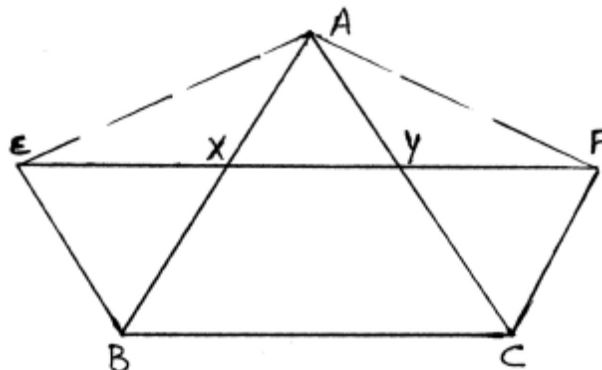
[2×3=6]

3. Find the coordinates of the points where the line $2x - y = 3$ meets the x axis and y axis.
4. AD is a median of $\triangle ABC$. If X is any point on AD, show that $\text{ar}(\triangle ABX) = \text{ar}(\triangle ACX)$
5. ABCD is a cyclic quadrilateral and $AB = AC$. If $\angle ACB = 70^\circ$, find $\angle BDC$.

Section C

Questions 6-8 carry 3 marks each. [3×3=9]

6. Prove that the parallelograms on the same base and between the same parallels have the same area.
7. XY is a line parallel to side BC of a triangle ABC intersecting AB and AC at X and Y respectively. If $BE \parallel AC$ and $CF \parallel AB$ meet XY at E and F respectively, show that $\text{ar}(\triangle ABE) = \text{ar}(\triangle ACF)$.



8. The sum of the present age of Ram and twice that of his father is 65. Form a linear equation in two variables and draw its graph.

Section D

Question 9 & 10 carry 4 marks each.

[4×2=8]

9. Draw the graphs of the following linear equations on the same XY plane; $3x+y = 6$ and $x-y = 2$. Shade the triangle formed with the y axis. Find the area of the shaded region.
10. Prove that the quadrilateral formed (if possible) by the internal angle bisectors of any quadrilateral is cyclic.

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MALAYALAM

I. ബ്രായ്ക്കറ്റിൽ നിന്നും ശരിയായ ഉത്തരം തിരഞ്ഞെടുത്തെഴുതുക. (2)

1. ഇത്തിരിച്ചോറുമുപ്പിലിട്ടതും തന്നു. ആര്?
(വെലോപ്പിള്ളി, ചുള്ളിക്കാട്, ജി.ശങ്കരക്കുറുപ്പ്, ചങ്ങമ്പുഴ)
2. 'വല്ലോം കിട്ടിയാൽ നിന്റെ തള്ളയ്ക്കു കൊ ുകൊടുക്ക്' ഇതുപറഞ്ഞത്?
(കുഞ്ഞുവർക്കിച്ചേട്ടൻ, ഏലിച്ചേട്ടന്തി, മറിയ, കടക്കാരുൻ)
3. 'കൊച്ചുകൊച്ചുമോഹങ്ങൾ' എന്ന കഥയുടെ കർത്താവ് ആര്?
(ശിഹാബുദ്ദീൻ പൊയ്ത്തുംകടവ്, എൻ.മോഹനൻ, തകഴി ശിവശങ്കരപ്പിള്ള, എം.ടി.വാസുദേവൻനായർ)
4. 'ജഗൽഭക്ഷകൻ' എന്നു വിശേഷിപ്പിച്ചിരിക്കുന്നത്?
(വംഗസാഗരം, കാലം, അന്തിതൻചൂടല, ബാഹുകൻ)

II. രൂപ പര്യായപദം എഴുതുക. (2)

1. വയർ
2. നായ

III. നാനാർത്ഥം എഴുതുക. (2)

1. അന്നം
2. രംഗം

IV. വിപരീതപദം എഴുതുക. (1)

1. സന്തോഷം
2. സ്വസ്ഥം

V. അർത്ഥവ്യത്യാസം എഴുതുക. (2)

1. ദിനം - ദീനം
2. പുരം - പുരം

VI. പിരിച്ചെഴുതി സന്ധി നിർണ്ണയിക്കുക. (2)

1. സ്വന്തമായി
2. എന്നോതി

VII. വിഗ്രഹിച്ച് സമാസം നിർണ്ണയിക്കുക. (2)

1. തെങ്ങോല
2. അന്തിമാന്നം

VIII. തെറ്റുണ്ടെങ്കിൽ തിരുത്തുക. (1)

അങ്ങനെ വിചാരിച്ചാണ് ആരുമില്ലാത്തതും വിജനമായ സ്ഥലം നോക്കി ഇവിടെ വന്നത്

IX. അംഗാംഗിവാക്യങ്ങൾ വേർതിരിച്ചെഴുതുക. (1)

സാധാരണ അമ്മച്ചിയോടൊത്ത് അവൻ ചന്തയിൽ പോകാറില്ല

X. അർത്ഥവ്യത്യാസം വരാതെ വിധിവാക്യത്തെ നിഷേധവാക്യമാക്കി മാറ്റുക. (1)

രാവിലെ മുതൽ രാത്രി വരെ അലഞ്ഞു നടന്നു പണിയെടുക്കും.

XI. ഉത്തരമെഴുതുക.

1. 'ബാഹുക ദിനമുന്തിക്കഴിക്കുമവിടുത്തെ ജാതകം ബഹുകേമം' ബാഹുകൻ എന്ന പുരാണ കഥാപാത്രത്തെക്കുറിച്ചുള്ള സൂചന കാവ്യസന്ദർഭത്തിൽ പ്രസക്തമാകുന്നതെങ്ങനെ? (3)
2. താൻ ഏറെക്കൊതിച്ച ഉടുപ്പു വാങ്ങാതെ പൊട്ടാത്ത കലവും അരിയും വാങ്ങിയതിലൂടെ മാത്തുക്കുട്ടിയുടെ എന്തു മഹത്വമാണ് വ്യക്തമാകുന്നത്. പാഠഭാഗത്തെ അടിസ്ഥാനമാക്കി വിലയിരുത്തുക. (3)
3. 'തേജസ്വിയായ വാഗ്മിയായി എല്ലാവരും വിവേകാനന്ദനെ കണ്ടു' ഇതിന് ആസ്പദമായ സംഭവം വിശദീകരിക്കുക. (3)

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HINDI

- I. 1. वर्ण विच्छेद कीजिए :- (2)
- (क) दुर्गम (ख) क्षत्रिय
2. निम्नलिखित वर्ण विच्छेद के लिए सही शब्द लिखिए :- (2)
- (क) उ + त् + प् + अ + न् + न् + अ
(ख) स् + अ + म् + उ + द् + र् + अ
- II. 1. निम्नलिखित उपसर्गों का प्रयोग करके दो-दो शब्द लिखिए :- (2)
- (क) ना (ख) ला
2. 'इक' प्रत्यय लगाकर दो शब्द लिखिए :- (1)
3. निम्नलिखित वाक्यांशों के लिए एक शब्द लिखिए :- (2)
- (क) ऊँचे-ऊँचे मकान
(ख) धर्म विशेष से संबंध रखनेवाला
(ग) खाना पकानेवाला
(घ) सना हुआ
4. विलोम शब्द लिखिए :- (1)
- (क) ईमान (ख) धर्म
- III.1. संधि कीजिए :- (1)
- (क) निः + आशा (ख) भाव + अर्थ
2. संधि विच्छेद कीजिए :- (2)
- (क) पर्वतारोही (ख) संतोष
3. उपयुक्त विराम चिह्नों का प्रयोग करके लिखिए :- (1)
- चलो चलते हैं मैं ने कहा
- IV. आप अपनी 2005 मॉडल की सफेद रंग की मारुति वेगनआर तुरंत बेचना चाहते हैं। वह केवल 8000 किलोमीटर चली हुई है। इस आशय का एक विज्ञापन बनाइए जिसमें संपर्क के लिए अपना दूरभाष नंबर भी दीजिए। (4)
- V. निम्नलिखित प्रश्नों के उत्तर लिखिए :
- (क) पाश्चात्य देशों में धनी और निर्धन लोगों में क्या अंतर है? (1½)
- (ख) गाँधीजी ने महादेव को अपना वारिस कब कहा था? (2)
- (ग) कवि हरिवंशराय बच्चन ने अग्निपथ किसके प्रतीक स्वरूप प्रयोग किया है? (1½)
- (घ) तक्षशिला में आगजनी की खबर पढ़कर लेखक के मन में कौन-सा विचार कौंधा? इससे लेखक के स्वभाव की किस विशेषता का परिचय मिलता है? (2)