

PLACID VIDYA VIHAR SR. SEC. SCHOOL

CHETHIPUZHA

FORMATIVE ASSESSMENT 4 - 2015-16

STD: X

Time: 1 hr.

ENGLISH

ax. Marks: 25

Section A- Reading (5 marks)

1. Read the following passage.

Familiar to most people for its medicinal properties, the Neem is recognized by few despite its distinctive, curved leaves and annual profusion of star-shaped sweet-scented flowers. It is a medium-sized or large tree with a straight trunk and is evergreen, a native of India, Burma and Sri Lanka.

Young leaves are pale, tender green tinged with rust. These are eaten on New Year's Day to ward off sickness during the coming year. Some people to whom the tree is sacred, also festoon fresh leaves across their houses when there is an epidemic of chicken pox or to keep evil spirits away when there is a birth or death. Dried leaves put in cupboards keep out moths and cockroaches. Another use of these magic leaves is in healing wounds.

From the yellow fruit is obtained the famous Margosa oil, so effective in the treatment of leprosy and skin diseases. External application of oil is believed to cure rheumatism. The bark and gum yield valuable medicines. In fact, every part of this tree is of some value. Neem timber is beautifully mottled, hard and heavy and is used for ship building, carts and furniture. Wood from old trees is so bitter that no insect will attack it.

1.1. Now based on your reading complete the following sentences, by choosing from the options given.

a. The Neem tree is well known for its

- i. Sweet fruits
- ii. Sweet scented flowers
- iii. Medicinal properties
- iv. Sacredness

b. Neem tree is not a native of

- i. Bangladesh
- ii. Burma
- iii. India
- iv. Sri Lanka

c. Margosa oil is used to treat

- i. Hair fall
- ii. Leprosy and skin diseases

- iii. Chicken pox
- iv. Giddiness
- d. We put dried neem leaves in the cupboards
 - i. To ward off foul smell
 - ii. To avoid decay of stored substances
 - iii. To keep out moths
 - iv. To make it scented
- e. The word 'festoon' here means
 - i. Freshen up
 - ii. Decorate
 - iii. Fix up
 - iv. Spread

Section B – Writing and grammar (10 marks)

2. Write a story in about 100 words from the clues given below. (5 marks)

A woman brought her child to a saint – boy used to eat too much sweets- she asked the saint to ask the child not to eat sweets – saint sent her back and asked her to come a week later – saint asks boy to stop eating sweets – woman surprised – asked why he did not say it a week earlier – saint replied ----

3. In the following passage one word has been omitted in each line. Find the missing word and write the answer in your answer sheet as shown in the example. (4 marks)

Science making rapid strides these days	eg. Science <u>is</u> making
Hundreds of new products appearing in the	a. -----
market daily. These products made man's life	b. -----
quite comfortable. Polythene is such product	c. -----
which found a wide application in modern homes	d. -----
with the average family using three polythene bags day.	e. -----
Polythene bags are largely being used packing and storing	f. -----
and are being most widely used carry-bags.	g. -----
Environmentalists have pointed the health hazards	h. -----
by the indiscriminate use of polythene bags.	

4. Rearrange the following words and phrases to form meaningful sentences. (1 mark)

- a. why/you/don't/bothering/instead/me/of/go/play/and
- b. holidays/their/children/this/the/refrain/hear/during/is

Section C – Literature and long reading text (10 marks)

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

The voice of my education said to me
He must be killed,
For in Sicily the black, black snakes are innocent, the gold are venomous.
And voices in me said, if you were a man
You would take a stick and break him now, and finish him off.

- a. What told the poet to kill the snake?
 - b. In Sicily, what colour are venomous snakes?
 - c. What is the poetic device used in the third line?
6. Answer the following questions in about 30 words. (4 marks)
- a. Why did the news of the ‘miracle recovery’ shock Michael?
 - b. Why does the poet make a reference to the albatross in the poem ‘Snake’?
7. Answer the following in about 50 words. (3 marks)
- a. Why does Helen Keller describe literature as her ‘Utopia’?

OR

- b. Describe an incident to show Helen’s indomitable spirit.

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BASIC SCIENCE

PHYSICS

I. Answer the following.

1. Define power of a lens and name its SI unit. (½+½)
2. Draw a ray diagram to locate the image of an object if the object is placed between the optical centre and the principal focus of a convex lens. What is the nature of the image? (1+1)
3. A convex lens of focal length 25 cm is placed in contact with a concave lens of focal length 20 cm.
Find (i) The focal length of the combination of the lenses.
(ii) power of the combination. (1+1)
4. Draw a neat and labelled diagram of human eye. (1+ 2)

CHEMISTRY

Answer the following.

1. Which type of hydrocarbons burn with (i) non sooty flame
(ii) sooty yellow flame. (½+½)
2. A compound 'X' is formed by the reaction of carboxylic acid having the molecular formula $C_2H_4O_2$ and alcohol 'Y' in the presence of conc. H_2SO_4 . The same carboxylic acid is obtained by the oxidation of alcohol 'Y'. Name the compounds X and Y. Give the chemical equation for the reaction of formation of carboxylic acid. (½+½+1)
3. State Mendeleev's periodic law. What were the discrepancies in Mendeleev's periodic table? 2
4. What are soaps? Explain the cleansing action of soap. (1+2)

BIOLOGY

1. Define homologous organs. 1
2. What are the primary consumers in a food chain? 1
3. What is an acquired character? Give an example. 2
4. Depict the inheritance of factors up to F_2 generation, by a cross between a tall plant and a dwarf plant to prove Mendel's experiment. 2
5. How is the sex of the child determined in human beings? 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. Whose work was Hind Swaraj? 1
 2. Write any two factors that influence the location of industries. 1
 3. What do you mean by Defection? What measure is adopted to prevent this practice? 1
 4. What are the three levels of consumer disputes redressal agencies in India? 1
 5. On which day is the National Consumer Day observed in India? 1
 6. What was the historical importance of Lahore Session of Indian National Congress of December 1929? 3
 7. Why did Mahatma Gandhi perceive, Salt, as a powerful symbol that could unite the nation? 3
 8. Why do people prefer democracy? Explain any three reasons. 3
 9. State any three point of significance of Information Technology industry in India. 3
 10. Write any three challenges faced by political parties. 3
 11. Classify industries on the basis of following with one example for each.
 - a) source of raw-materials
 - b) owner ship
 - c) capital investment
 - d) main role. 5

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MATHEMATICS

Section A

Questions 1-2 carry 1 mark each.

[1×2=2]

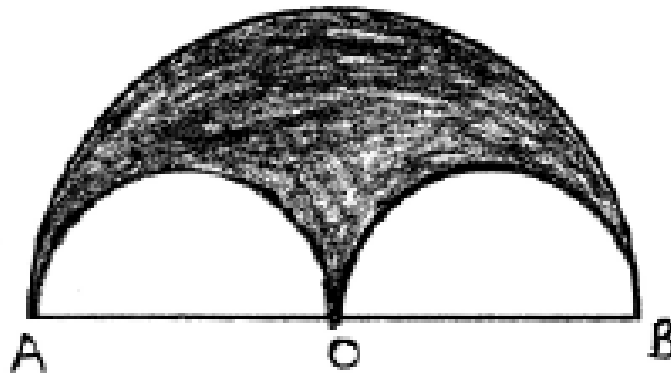
1. From a point Q, the length of the tangent to a circle is 24 cm and the distance of Q from the centre is 25 cm. Find the radius of the circle.
2. From well shuffled pack of playing cards, black jacks, black kings and black aces are removed. A card is drawn at random from the pack. Find the probability of getting a diamond card.

Section B

Questions 3-5 carry 2 marks each.

[2×3=6]

3. Two dice are rolled once. Find the probability of getting such numbers on the two dice whose product is 12.
4. A semi circle is drawn with O as centre and AB as the diameter. Semi circles are drawn with AO and OB as diameters. If AB = 28 cm, find the area of the shaded region $\left(\pi = \frac{22}{7}\right)$.



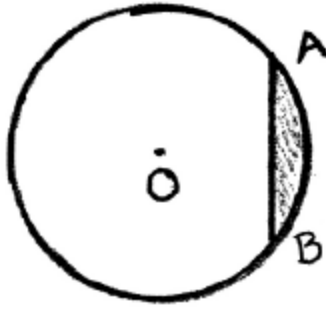
5. Prove that the length of tangents drawn from an external point to a circle are equal.

Section C

Questions 6-8 carry 3 marks each.

[3×3=9]

6. A triangle ABC is drawn to circumscribe a circle of radius 2 cm such that the segments BD and DC, into which BC is divided by the point of contact D, are of lengths 4 cm and 3 cm respectively. If the area of $\triangle ABC$ is 21 cm^2 , find the length of sides AB and AC.
7. Find the area of the segment of a circle of radius 14 cm, if the length of the corresponding arc AB = 22 cm $\left(\text{use } \pi = \frac{22}{7}\right)$.



8. The angle of elevation of the top of a tower from a point A on the ground is 30° . On moving a distance of 20 m towards the foot of the tower to a point B, the angle of elevation increases to 60° . Find the height of the tower and the distance of the tower from the point A.

Section D

Question 9-10 carry 4 marks each.

[4×2=8]

9. A rectangular park is 100 m by 50 m. It is surrounded by semi circular flower beds all round. Find the cost of levelling the semi circular beds at 60 paise per m^2 .
10. The angle of elevation of a jet fighter from a point A on the ground is 60° . After a flight of 15 seconds, the angle of elevation changes to 30° . If the jet is flying at a speed of 720 km/hr, find the constant height.

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MALAYALAM

- I. ബ്രായ്ക്കറ്റിൽ നിന്നും ശരിയായ ഉത്തരം തിരഞ്ഞെടുത്തെഴുതുക. (2)
1. ഇരുണ്ട ജീവിതത്തിൽ മങ്ങിയ വിളക്കുകൾ മാത്രമുള്ള രാത്രി. എന്തിന്റെ?
(നഷ്ടപ്പെടലിന്റെ, ആശയുടെ, സഹതാപത്തിന്റെ)
 2. 'അനിതയുടെ വീട്' ആരുടെ കൃതിയാണ്?
(പി.കുഞ്ഞിരാമൻനായർ, ഇ.ഹരികുമാർ, കുഞ്ഞനന്തൻനായർ)
 3. 'ഖണ്ഡകാവ്യങ്ങൾ തിരുത്തും സൂര്യരശ്മികൾ' ആരുടെ?
(പുലർവേളയുടെ, സന്ധ്യയുടെ, നിശയുടെ)
 4. പി. യുടെ ആത്മകഥയല്ലാത്ത കൃതിയേത്?
(സൗന്ദര്യപൂജ, കവിയുടെ കാല്പാടുകൾ, എന്നെ തിരയുന്ന ഞാൻ)
- II. രണ്ടു പര്യായപദമെഴുതുക. (2)
1. ലജ്ജ
 2. കന്യക
- III. നാനാർത്ഥം എഴുതുക. (2)
1. ഭാവന
 2. പാവം
- IV. വിപരീതപദം എഴുതുക. (1)
1. ഖണ്ഡകാവ്യം
 2. ചെലവ്
- V. അർത്ഥവ്യത്യാസം എഴുതുക. (1)
- ഉദ്ദേശം - ഉദ്ദേശ്യം
- VI. പിരിച്ചെഴുതി സന്ധി നിർണ്ണയിക്കുക. (2)
1. വെണ്മ
 2. നടപ്പാത
- VII. വിഗ്രഹിച്ച് സമാസം നിർണ്ണയിക്കുക. (2)
1. ഇരുമ്പഴി
 2. വിൺപിച്ചകച്ചെടി
- VIII. പ്രയോഗം മാറ്റുക. (1)
- കടയുടെ വാതിൽക്കലേയ്ക്കും അയാളുടെ മുഖത്തേക്കും മാറിമാറി നോക്കിക്കൊണ്ട് അവൾ പറഞ്ഞു.
- IX. അർത്ഥവ്യത്യാസം വരാതെ വിധിവാക്യത്തെ നിഷേധവാക്യമാക്കുക. (1)
- എന്തോ ഓർത്ത് അവളുടെ കണ്ണുകളിൽ ഭീതി നിറയുന്നത് അയാൾ കണ്ടു.
- X. ചുർണ്ണിക വാക്യമാക്കുക. (1)
- ഉടുത്തിരുന്ന സാരിയുടെ അറ്റമെടുത്ത് വീശിക്കൊണ്ട് രമണി പറഞ്ഞു
- XI. ഉത്തരം എഴുതുക.
1. റാണിയുടെ കുടുംബപശ്ചാത്തലം കഥാകൃത്ത് ആവിഷ്കരിച്ചിരിക്കുന്നതെങ്ങനെ? (3)
 2. 'സൗന്ദര്യപൂജ'യിൽ വർണിക്കുന്ന പ്രകൃതിയുടെ സാരാംശമെന്ത്? (3)
 3. ഈ നൂറ്റാണ്ടിലെ ഏറ്റവും വലിയ കണ്ടുപിടുത്തം എന്ന് ഡോക്ടർ വിശേഷിപ്പിച്ചതെന്ത്? വിശദീകരിക്കുക. (4)

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HINDI

- I. (क) शब्द पद का रूप कब लेता है? (1)
- (ख) एक या अनेक वर्णों से निर्मित स्वतंत्र एवं सार्थक इकाई ----- कहलाती है। (1)
- II. (क) निम्नलिखित शब्दों का समास विग्रह करते हुए समास का नाम लिखिए - (2)
- (1) नीलकंठ (2) ऊँच - नीच
- (ख) निम्नलिखित शब्दों को समस्त पद रूप में लिखकर समास का नाम लिखिए - (2)
- (1) पाँच बटों का समाहार (2) शक्ति के अनुसार
- (ग) रिक्त स्थान की पूर्ति उचित मुहावरे द्वारा कीजिए - (1)
- जिंदगी में यह बात ----- कि बिना परिश्रम के सफलता नहीं मिलती।
- III. निम्नलिखित वाक्यों को शुद्ध रूप में लिखिए - (2)
- (1) कल माताजी आ रहे हैं।
- (2) वह गुनगुने गरम पानी से स्नान करता है।
- IV. निम्नलिखित प्रश्नों के उत्तर लिखिए -
- (क) कवि ने 'साथियों' संबोधन का प्रयोग किसके लिए किया है? (1)
- (ख) जापानी में चाय पीने की विधि को क्या कहते हैं? (1)
- (ग) इफ्फन की दादी अपने पीहर क्यों जाना चाहती थीं? (3)
- (घ) पीटी साहब की 'शाबाश' फ़ौज के तमगों-सी क्यों लगती थी? (3)
- (ङ) ओचुमेलॉव के चरित्र की विशेषताओं को अपने शब्दों में लिखिए। (3)
- V. महानगरों में महिलाओं की असुरक्षा के विषय में समाचार-पत्र के संपादक को पत्र लिखिए। (5)