

MANAV STHALI SCHOOL

NEW DELHI

HOLIDAY HOMEWORK : CLASS - X

2009-2010

ENGLISH

M.M: 25

- Q.1 Collect notices, pamphlets, brochures, newspaper report, letter to the editor (five each) and maintain a scrap file.
- Q.2(a) Write a BROCHURE on 'New Delhi' (in a booklet form) (5)
- b) Prepare an interesting itinerary for a group British tourist visiting Delhi. The tourists will stay for three days. (5)
- Q.3 Complete all the exercises in the workbook (Unit 1, 2, 3, 4, 5) (5)
- Q.4 Read any two stories by famous authors or read a novel by Jane Austen / Thomas Hardy
- a) Relate an interesting event or episode in your own words.
- b) Write a brief character sketch of any one interesting character and why you liked the particular character in the story.

हिन्दी

पूर्णांक-25

- प्र०1 अपनी दादी, नानी और माँ से बातचीत करते हुए स्त्री शिक्षा संबंधी विचारों का आदान-प्रदान करते हुए, उस समय की स्थितियों का पता लगाइए। तत्पश्चात् अपनी स्थितियों से उसकी तुलना करते हुए एक निबंध लिखिए और संबंधित तस्वीरें भी चिपकाइए। 5
- प्र०2 क्या आप हाकी, टेनिस, क्रिकेट, खो-खो या अन्य कोई खेल आदि खेलते हैं? जिसभी किसी खेल को खेलते हैं, उससे संबंधित कौन-कौन से शब्द-विशेष प्रचलन में हैं। अपने द्वारा खेले गए खेल पर चर्चा कीजिए और उन विशेष शब्दों का प्रयोग करते हुए उस खेल के विषय में लिखिए। 5
- प्र०3 किसी एक ऐसे महान् व्यक्तित्व पर लेख लिखें जिसकी जन्मभूमि तो भारत है लेकिन उन्होंने अपनी कर्मभूमि किसी अन्य देश को बनाया है और भारत को गौरवान्वित किया। 5
- प्र०4 'भई खूब! क्या आइडिया है।' इस वाक्य को ध्यान में रखते हुए बताइए कि एक भाषा में दूसरी भाषा के शब्दों के आने से क्या लाभ होते हैं? आप भी ऐसे ही स्वीकृत शब्दों के साथ कम से कम दस वाक्य बनाइए। 5
- प्र०5 भारत विविध ऋतुओं का देश है, जहाँ प्रत्येक ऋतु क्रमवार आती है। प्रत्येक ऋतु का संक्षिप्त

X विवरण देते हुए उस ऋतु से संबंधित किसी भी कव की कुछ काव्य-पंक्तियाँ लिखिए ।
संस्कृत

पूर्णांकाः-25

प्र०1 'ऐक्यम् एव बलम्' - इति कथनस्य सत्यासत्य-विवेचनं कुरुत-एकेन उदाहरणेन स्पष्टीकुरुत -
(स्वभाषायाम्) 5

प्र०2 समुचितैः अव्ययपदैः रिक्तस्थानानि पूरयत ।

1. ;पद्ध..... अहं न आगच्छामि ;पद्ध..... त्वम् अत्रैव तिष्ठ ।
2. ;पपद्ध..... श्रेष्ठः जनः आचरति ;पद्ध..... अन्ये अपि आचरन्ति ।
3. ;अद्ध..... नार्यस्तु पूज्यन्ते रमन्ते ;अपद्ध..... देवताः ।
4. मम भ्राता ;अपपद्ध..... आगमिष्यति ।
5. स्वकार्यं कुरु ;अपपद्ध..... ;पगद्ध..... भ्रम ।
6. ;गद्ध..... भाषणं न कुरु ।

यत्र-तत्र, इतस्ततः, वृथा, यत्-तत्, श्वः, यावत्-तावत्, मा

प्र०3 मञ्जूषां दृष्ट्वा रिक्तस्थान रूपेण संवादं पूरयत - 0ण5ग10त्र5

उष्णजलेन, भक्षितं, पीडायाः, भविष्यसि, उदरशूलः, स्वीकुरु, धन्यवादाः, अजायत, अखादम्, गृहीतव्यम्।

वैद्यः - आगच्छ वत्स । ;पद्ध..... ?

संजीवः- ;पपद्ध..... पीडयति श्रीमन् ?

वैद्यः - कदा आरभत ?

संजीवः- अद्य प्रातः कालादेव ।

वैद्यः - जिह्वां प्रदर्शय । किं ;पपद्ध..... रात्रौ ?

संजीवः - हाः सायंकाले आलुकस्य द्वेपिष्टिके ;पद्ध..... ।

वैद्यः - इदमेव ;अद्ध..... कारणम् । भवतु, एतत् चूर्णम् एताः गुलिकाः च
;अपद्ध..... ।

संजीवः- कतिवारं ;अपपद्ध..... ?

वैद्यः - दिवसे त्रिवारं ;अपपद्ध..... एकचमसमात्रम् गृहीतव्यम् । अवश्यमेव स्वस्थः
;पगद्ध..... ।

X संजीव:- ;गद्ध..... । प्रणमामि ।

प्र०4 अनुच्छेदं पठित्वा प्रश्नानुत्तरेत् -

10

महाराजो हरिश्चन्द्रः सर्वथा सत्यवादितायाम् अत्यन्तः प्रसिद्धः आसीत् । सः स्वीकायं समग्रं राज्यं विश्वामित्राय दत्त्वा स्व प्रतिज्ञां पूरयामास । एकदा सः शयानः आसीत् । स्वप्ने सः अपश्यत् यत् स स्वकीयं राज्यं ब्राह्मणाय ददाति । अपरस्मिन् दिने वस्तुत एव ऋषिः विश्वामित्रः ब्राह्मणरूपेण तस्य राज्ञः समीपम् उपस्थितो अभवत् । राज्ञे च राज्यस्य दानाय अकथयत् । राजा स्वप्नस्य वार्तायां दृढो भूत्वा संकल्पं कृत्वा सम्पूर्णं राज्यं विप्राय ददौ । विश्वामित्रो दानान्तरं दानस्य दक्षिणामप्ययाचत् । परं राजा सकलं राज्यं दाने दत्तवान् । अतः राजकोषात् स किञ्चिदपि दातुं नाशक्नोत् । अन्ततो राजा आत्मानं, राज्ञी शैव्या, पुत्रं रोहिताश्वं च विक्रीय ऋषये दक्षिणाम् अयच्छत् ।

1. एकपदेन उत्तरत । 0ण5ग4त्र2

1. कः राजा सत्यवादितायां प्रसिद्धः आसीत् ?

2. स्वप्ने स ब्राह्मणाय किम् अयच्छत् ?

3. अन्यस्मिन् दिने ब्राह्मणरूपेण राज्ञः समीपं कः उपस्थितः अभवत् ?

4. आत्मानं, राज्ञी शैव्यां, पुत्रं च विक्रीय राजा विश्वामित्राय काम् अयच्छत् ?

2. पूर्णवाक्येन उत्तरत ।

0ण5ग4त्र2

1. राजा हरिश्चन्द्रः स्वप्ने किम् अपश्यत् ?

2. स्वप्नस्य वार्तायाम् दृढो भूत्वा राजा किम् अकरोत् ?

3. अस्य गद्यांशस्य समुचितं शीर्षकं लिखत -

2

4. निदेशानुसारं लिखत -

0ण5ग4त्र2

1. अनुच्छेदात् अव्ययानि चित्वा तेषां सूचिनिमाणमकुरुत

2. 'दातुम्' - पदे कः प्रत्ययः ?

3. 'ददाति' - पदस्य कर्तृपदं किम् ?


4. 'राजा' पदं कस्मै प्रयुक्तम् ?

GERMAN

Q.1 Sie füllen ein Formular aus und schreiben eine kurze Mitteilung.

Ihre Freundin Verena Schamberger, sucht Informationen über Camping - Urlaub und bestellt den Intercamp Katalog. Sie ist verheiratet und hat drei Kinder im Alter von drei, fünf und acht Jahren. Sie wohnt in Gartenweg 10 in 44225 Dortmund. Schreiben Sie die fünf fehlenden Informationen in das Formular.

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Intercamp		
Name	<u>Schamunberger</u>	(0)
Vorname	_____	(1)
Straße/Nr.	_____	(2)
Postleitzahl/Ort	_____	(3)
(E-Mail)	<u>V.schamunberger@t-online.de</u>	
Anzahl Kinder:	_____	(4)
Alter Kinder:	_____	(5)
		 Intercamp Reisen Postfach 1142 Bremen

Q.2 Lesen Sie das Schild. Antworten Sie auf die Fragen :-

<p>Die Anmeldungen für die neuen Deutschkurse finden vom 1. bis 31. August statt. Anmeldeformulare in Zimmer 11 bei Frau Dorn. Hier können Sie auch einen Einstufungstest machen. Mit allen Fragen wenden Sie sich bitte an Frau Dorn.</p>	<p>1 Was für Kurse kann man hier machen? _____</p> <p>2 Wo kann man sich anmelden? _____</p> <p>3 Von wann bis wann ist eine Anmeldung möglich? _____</p> <p>4 Wie kann man den passenden Kurs finden? _____</p> <p>5 Bei wem können Sie Hilfe bekommen? _____</p>
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Q.3 Sie möchten Ihren Freund zum Deutschkurs anmelden. Schreiben Sie die fünf fehlenden Informationen in das Formular.

Ihr Freund Giuseppe Macola aus Italien möchte einen Sommerkurs in Deutschland machen. Er kann noch kein Deutsch und bittet Sie, ihn bei der Volkschule anzumelden. Er wohnt bei Ihnen in der Friedrichstraße 2 in Berlin. Füllen Sie das Formular für Ihren Freund aus.

VHS

Name _____

Vorname _____

Straße/Nr. _____

Postleitzahl/Ort _____ 10969 Berlin _____

Kurs _____

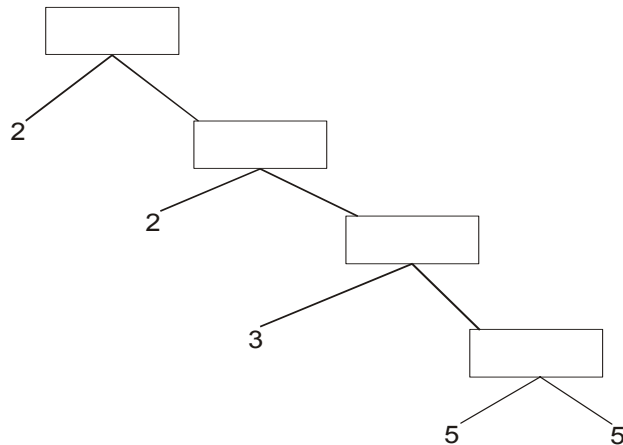
Kursnummer _____ LM1086 _____

Staatsangehörigkeit _____

Q.4 Schreiben Sie einen Brief an Ihren Onkel. Erzählen Sie ihm von einer Reise, die Sie in den Sommerferien gemacht haben.

MATHS

- Q.1 State Euclids division lemma.
- Q.2 State fundamental theorem of Arithmetic.
- Q.3 Find the missing numbers in the following factorization :



- Q.4 Find the H.C.F and L.C.M of 17,23,37 by applying prime factorization method.
- Q.5 State why the number $6 \times 11 \times 7 \times 5 \times 1 + 7$ is a complete number.
- Q.6 If $(15)^n$ where n is a natural number is divisible by 25.What is the least value of n?
- Q.7 Check whether 7^n can end with digit 0, for any $n \in \mathbb{N}$.
- Q.8 Find the smallest number which when increased by 13, is exactly divisible by both 520 and 468.
- Q.9 Let a and b be two prime. Write the HCF of a and b.
- Q.10 Given H.C.F of $(16, 100) = 4$, write LCM of $(16, 100)$

Chapter 2 (polynomials)

- Q.1 Find the zeros of the polynomial $x^2 - 16$
- Q.2 If α, β are the zeros of polynomial $ax^2 + bx + c, a \neq 0$. Write the values of
 - (i) $\alpha + \beta$
 - (ii) $\alpha\beta$
- Q.3 State division algorithm for polynomials.
- Q.4 If the sum of zeros of the polynomials $f(x) = Kx^2 - 7x + 9$ is -4, find the values of k.
- Q.5 Write a quadratic polynomial, the sum and product of whose zeros are 3 and -2.
- Q.6 Write the polynomial whose zeros are $2 + \sqrt{3}$ and $2 - \sqrt{3}$.
- Q.7 If one zero of the polynomial $(a^2 + 9)x^2 + 13x + 6a$ is reciprocal of the other, find the value of a.
- Q.8 Divide $x^3 - 1$ by $x - 1$ and find quotient and remainder.
- Q.9 If α, β, γ are the zeros of the polynomial $2x^3 - 3px^2 + qx - x$, find $\alpha + \beta + \gamma$ and $\alpha\beta + \beta\gamma + \gamma\alpha$.
- Q.10 Find the value of a for which the product of zeroes of the polynomial $ax^3 - 6x^2 + 11x - 6$ is 4.

X

Chapter 3 (Pair of Linear Equations in Two Variables)

- Q.1 State whether the system of linear equations $2x - 3y + 5 = 0$ and $4x - 6y + 10 = 0$ is consistent, inconsistent or dependent.
- Q.2 For the system of linear equations, find 'k' such that system of linear equation $2x + 4y + 7 = 0$ has no solution.
- Q.3 What can you say about the lines drawn on the graph for the following system of linear equations :-
 $x + 2y + 4 = 0$ and $3x + 6y + 12 = 0$
- Q.4 Find the value of 'k' such that the system of linear equations $3x - 4y + 1 = 0$ and $kx + 2y + 4 = 0$ has a unique solution.
- Q.5 Write the condition that the pair linear equations $a_1x + b_1y + c_1 = 0$,
 $a_2x + b_2y + c_2 = 0$ is inconsistent.
- Q.6 For what values of a and b does the following pair of linear equations have an infinite number of solutions?
 $2x + 3y = 7$
 $(a - b)x + (a + b)y = 3a + b - 2$

Chapter 4 (Quadratic Equations)

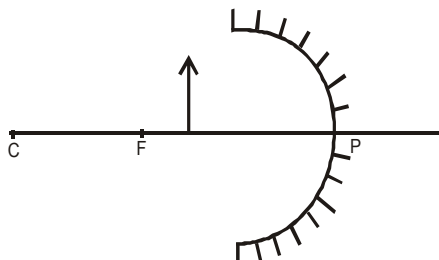
- Q.1 Find the discriminant for the quadratic equation $3x^2 - 2x + \quad = 0$
- Q.2 Check if $x = \frac{-5}{\sqrt{2}}$ is a solution of the quadratic equation $\sqrt{2}x^2 + 7x + 5\sqrt{2} = 0$.
- Q.3 Find the value of k for which the equation $x^2 - kx + 4 = 0$ has two real equal roots.
- Q.4 Discuss the nature of roots of the quadratic equation $x^2 - 5x - 7 = 0$
- Q.5 Find the discriminant of the equation
 $3\sqrt{3}x^2 + 10x + \sqrt{3} = 0$
- Q.6 Solve for x :-
 $9x^2 - 9(a+b)x + (2a^2 + 5ab + 2b^2) = 0$
- Q.7 Find the value (s) of k for which the equation $9x^2 + 3kx + 4 = 0$ has real and equal roots.
- Q.8 Find the roots of the equation
 $x^2 + (\sqrt{3} + 1)x + \sqrt{3} = 0$
- Q.9 Find the value of k for which both the equations $x^2 + kx + 64 = 0$ and $x^2 - 8x + k = 0$ have equal roots.
- Q.10 Find the roots of the equation
 $a^2b^2x^2 + (b^2 - a^2)x - 1 = 0$

Chapter 5 (Arithmetic Progression)

- Q.1 Write the first four terms of the sequence whose n^{th} term is given by $t_n = \frac{4n+1}{2}$
- Q.2 If 2, $3k - 1$, 8 are in A.P, then what is the value of k ?
- Q.3 Write the next term of the A.P :-
 $\sqrt{27}, \sqrt{48}, \sqrt{75}$
- Q.4 If the fourth term of an A.P is 11 and the sum the fourth and fifth terms is 25, find the common difference of the A.P.
- Q.5 Is 0.5, 0.55, 0.555, 0.5555,..... an A.P?
- Q.6 Find the 15th term and n^{th} term of the A.P, -2, -5, -8
- Q.7 Which term of the A.P, 21, 18, 15 is zero?
- Q.8 The first term of an A.P is p and its common difference is q . Find its 10th term.
- Q.9 The n^{th} term of an A.P is $7 - 4n$. Find its common difference.
- Q.10 The sum of n terms of an A.P is $n^2 + 3n$. Find its 20th term.

SCIENCE PHYSICS

- Q.1 Show the formation of image of object AB with the help of suitable rays.



- Q.2 With respect to air the refractive index of ice is 1.31 and rock salt is 1.54. Calculate the refractive index of rock salt w.r.t ice.
- Q.3 Give the characteristics of image formed by a plane mirror.
- Q.4 Draw the ray diagrams to represent the nature, position and relative size of the image formed by a convex lens for the object placed at (i) at $2F_1$ (ii) between F_1 and 0.
- Q.5 State the conditions for no refraction.
- Q.6 State mirror formula. Will the focal length of mirror change on changing the object distance? If not, why? What determines focal length of the mirror?
- Q.7 Distinguish between reflection and refraction of light. State the laws of refraction. Define refractive index of a medium. Show that ${}_2n^1$ is reciprocal of ${}_1n^2$.
- Q.8 You are given a concave mirror of focal length 10cm. What should be the range of distance of the object from the mirror to obtain an erect image of the object?
- Q.9 What is the focal length of lens of number +2?

- X Q.10 An object 50cm tall is placed on the principal axis of a convex lens. Its 20cm tall image is formed on the screen placed at a distance of 10 cm from the lens. Calculate the focal length of the lens.

CHEMISTRY

- Q.1 Give one example of salt of strong acid and weak base and one example of salt of a weak acid and strong base.
- Q.2 A solution gives pink colour when a drop of phenolphthalein is added to it. Solution B gives red colour when a drop of methyl orange is added to it. What are types of solution A and B and what type of pH would they have?
- Q.3 NH_3 does not contain hydroxyl group, then why is it a base?
- Q.4 How will you differentiate between efflorescence and deliquescence and name the compound which shows these properties.
- Q.5 How is plaster of Paris chemically different from gypsum? How may they be interconverted? Write one use of plaster of Paris.
- Q.6 How will you distinguish between metals and non-metals on the basis of chemical properties?
- Q.7 Two elements A and B have the electronic configuration 2,8,2 and 2,6 respectively. These form a chemical bond. Name the type of bond formed. Why does the compound so formed has a high melting point?
- Q.8 Name a highly reactive metal, a middle order reactive metal and a low reactive metal. Write the metallurgical steps extraction these metals along with all the chemical reactions involved.
- Q.9 Write chemical equations for the reactions taking place when :
- A piece of calcium metal is placed in water.
 - steam is passed over red hot iron.
 - zinc sulphide is heated in air.
 - Mercury dioxide is heated with Al powder.
- Q.10 On placing a piece of zinc metal in the solution of mercuric chloride, it acquires a shining silvery surface but when it is placed in a solution of magnesium sulphate, no change is observed. Explain.

BIOLOGY

- Q.1 Differentiate between the following :
- Autotrophic and Heterotrophic nutrition.
 - Aerobic and Anaerobic Respiration.
 - Arteries and Veins.
 - Blood and lymph
 - Photosynthesis and Respiration.
- Q.2 Write the full forms of the following :
- Salivary amylase
 - Liver

X

- iii) large intestine
- iv) villi
- v) Lipase
- vi) pepsin
- vii) gastric Hcl

Q.4 Describe the functions of following structures in our respiratory system :

- (i) Nasal Cavity (ii) espioglottis (iii) larynx (iv) trachea (v) Alveoli

Q.5 Draw a well labelled diagram of (i) human heart (ii) human excretory system
(iii) Phloem tissue (iv) Nephron

Q.6(i) Define excretion. Name the main excretory substances produced to metabolic activities in our body.

- (ii) Briefly explain the process of dialysis.

Q.7 Answer the following questions :

- (i) What is the function of phloem in plants.
- (ii) How does water rise in plants?
- (iii) Define transpiration.

Q.8 Draw well labelled diagrams of

- (a) Neuron
- (b) Human Brain

Q.9 What is 'Reflex Action'. Explain its mechanism with the suitable diagram. What are its advantages.

Q.10 Give the functions of

- (a) Fore brain
- (b) Medulla oblungata
- (c) Pons
- (d) Cerebellum

Q.11 Differentiate between

- (a) Tropic and Nastic movements
- (b) Auxins and Cytokinins
- (c) Insulin and Glucagen

Q.12(a) State the position of thyroid and adrenal glands in man.

- (b) Name the hormones secreted by these glands.
- (c) Give the functions of these hormones.

SOCIAL STUDIES

M.M:25

Q.1 On an outline map of India, mark the following features :-

(5)

- X
- i) National Parks of Wild life sancturies
 - ii) Rice growing areas
 - iii) Cotton and Jute growing areas
 - iv) Iron and Steel plants
 - v) Coal mines
 - vi) Oil refineries
 - vii) Major sea ports on each coast.
 - viii) International air ports
 - ix) Major navigable canals
 - x) Hirakud,Rihand,Bhakranangal,Sardar sarover,Nagarjuna sagar,Damodar valley corporation.
- Q.2 Discuss the need to conserve water and find out ancient and modern technique of conserving water. (5)
- Q.3 Give a brief account of the following :- (5)
- i) Satyagrah Movement
 - ii) Civil Disobedience Movement
 - iii) Non - Cooperation Movement
- Q.4 Collect information from the newspaper and media related to the Election process and recent changes in the government with special reference about the role and manifestoes of " Political Parties" in elections. (5)

INFORMATION TECHNOLOGY

Book :- Getting In touch by KIPS Publication

Project :- Make a website of 10 web pages and black & white print out of the source.

Guidelines :-

- 1) Submit your respective projects with colored print outs of web pages and black & white print out of the source.
- 2) Use all the tags in your web pages.
- 3) Linking is must in all web pages.

Last date of submission of files :- 13th July 2009

Note :- Before taking the print outs check that the following options has been selected
Web Page

↓
Tools

↓
Advance

↓
Select Print - Print background colours and images.