D.A.V PUBLIC SCHOOL DVC MITPS, BANKURA, 722133 (VJ.B.)

Surmer Holiday Homework Session-2025-26

CLASS-XII (SCIENCE)

SUBJECT: ENGLISH

SECTION A: CREATIVE WRITING SKILL

1. A.	You are the Secretary of the Neighbourhood Watch Scheme, Jastinapur, Sector D-3 Society. Draft a <i>Notice</i> for the Society notice board, informing residents about the change of personnel, Head Security, Gate 2 and share necessary details. Also, include the news of installation of the much awaited security camera, on the Eastern periphery of the Society.
B.	Your school B. C. ROY Academy is organizing an Alumni Meet for former students. As the President of the Alumni Association, write a formal <i>Invitation</i> inviting the alumni to reconnect with their alma mater. Include details about the date, time, venue and programme highlights of the evening.
C.	Financial literacy is increasingly recognized as a crucial 21 st century skill for young individuals. Write a Letter to the Editor of a local daily discussing the benefits of providing financial literacy education to children. Also, suggest effective ways to raise awareness about the importance of this education among parents and guardians. You may use some of the given cues along with your own ideas to draft the letter. You are a Counsellor, Chitra Mahapatra from Puri, Odisha.
D.	You are Alka/ Alpesh Rai, a resident of 21/3, Harekrishna Colony, Jamshedpur. You have seen an advertisement in the newspaper, 'Deccan Herald' for the post of Human Resource Manager at Geet Technologies Pvt. Ltd., Jamshedpur. Apply for the post with your complete Bio-data. SITUATION VACANT Wanted a young dynamic HR Manager for Geet Technologies Pvt. Ltd., Jamshedpur. The candidate must have a degree from a reputed college and a minimum three years' experience in the given field. Apply to the General Manager for the post within ten days.

SECTION B: LITERATURE TEXT

2.	Read the given extracts and answer the questions that follow:
A.	I looked again at her, wan,
	pale
	as a late winter's moon and felt that
	old
	familiar ache, my childhood's fear,
	but all I said was, see you soon,
	Amma,
	all I did was smile and smile and
	smile
	(My Mother at Sixty-six)
i.	What is the speaker's emotional state when looking at her mother?
	a. Confused and disoriented
	b. Nostalgic and longing
	c. Empathetic and understanding
	d. Fearful and apprehensive
ii.	What does the use of the word "but" at the beginning of the line, 'but
	all I said', suggest?
iii.	Select the word that WILL NOT complete the sentence appropriately.
	The description of the mother as "wan, pale/ as a late winter's moon"
	creates a vivid image of
	a. vulnerability
	b. sensitivity
	c. frailty
	d. mortality
iv.	State whether the given statement is TRUE/FALSE:
	The poetic device used in the line, 'pale as a winter's moon' is the
	same as the one used in the line, 'the winter wind wistfully wailed at
	night'.
v.	What message do these lines highlight, in the context of familial
	relationships, and the speaker's sense of anxiety and fear at the
	prospect of losing her mother?
vi.	Complete the sentence appropriately:
	The repetition of the word 'smile' suggests that

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В.	what a thunderclap these words were to me! On, the wretches; that
	was what they had put up at the town-hall! My last French lesson!
	Why, I hardly knew how to write! I should never learn anymore! I
	must stop there, then! Oh, how sorry I was for not learning my lessons,
	for seeking birds' eggs, or going sliding on the Saar! My books, that
	had seemed such a nuisance a while ago so heavy to carry my
	grammar and my history of the saints, were old friends now that I
	grammar and my mistory of the sames, were old mends now that I
	couldn't give up. And W. Hamel, too, the idea that he was going away,
	that I should never see him again, made me forget all about his ruler
	and how cranky he was. (The Last Lesson)
i.	What was the writer's purpose in using the metaphor of a
	'thunderclap'?
ii.	Select the correct option from those given in brackets to fill in the
	blank.
	The use of exclamatory marks in the first five sentences of the extract
	serves to express the speaker's (latent/intense) emotions.
iii	Complete the following suitably:
	The activities of seeking birds' eggs and sliding on the Saar reveal two
	things about Franz's character before his change in perspective First
	his youthful assofrage nature and second his preference for
	his youthful caleffee hature and second, his preference for
	What is reflected through the shift in the greater's noncention of Mr
1V.	what is reflected through the shift in the speaker's perception of Mr.
	Hamel, conveyed through his readiness to forget the ruler?
v.	Select the textual option that is closest to indicating a sense of panic.
	a. Oh, how sorry I was for not learning my lessons
	b. Why, I hardly knew how to write!
	c. Oh, the wretches; that was what they had put up at the town-
	hall!
	d. And M. Hamel, too;
3.	Read the given extracts and answer the questions that follow:
A.	And survival in Seemapuri means rag-picking. Through the years, it
	has acquired the proportions of a fine art. Garbage to them is gold. It is
	their daily bread a roof over their heads even if it is a leaking roof
	But for a child it is even more "I sometimes find a runee, even a ten-
	munoa noto" Schoh goug hig aveg lighting up. When you can find a
	silver agin in a hoor of carbons you don't stor corourging for theme is
	silver com in a neap of garbage, you don't stop scrounging, for there is
	nope of finding more. It seems that for children, garbage has a
	meaning different from what it means to their parents. For the children
	it is wrapped in wonder, for the elders it is a means of survival.
	(Lost Spring—Stories of Stolen Childhood)
i.	What does Saheb's statement about finding money in the garbage
	reveal about his daily life and aspirations?

ii.	Select the correct option from those given in brackets to fill in the
	Describing garbage as 'gold' metaphorically alayates its value to the
	children helping the reader understand the
	(dynamic/desperate) conditions under which these children live, where
	(dynamic/desperate) conditions under which these children live, where
	Complete the following with a suitable reason:
111.	Complete the following with a suitable reason:
	Children continue to scrounge in the garbage because
137	
10.	in Soomanuri?
P	In other words, the Tiger King is dead. The manner of his death is a
D.	mother of extraordinery interest. It can be revealed only at the and of
	the tale. The most fontestic espect of his domise was that as soon as he
	the tale. The most failtastic aspect of his definise was that as soon as he
	was born, astrologers had forefold that one day the figer King would
	actually have to die. The child will grow up to become the warnor of
	warriors, nero of neroes, champion of champions. But they bit their
	ips and swahowed hard. When compened to continue, the astronogers
	came out with it. This is a secret which should not be revealed at all.
	And yet we are forced to speak out. The child born under this star will
•	One day have to meet its death. (<i>The Tiger King</i>)
1.	Complete the sentence appropriately. The author's purpose in using
••	Toreshadowing, is to
11.	In the given extract, what emotion were the astrologers leeling when
	they bit their lips and swallowed hard?
	B. Disbeller
	C. Grief
•••	D. Unease
111.	which trait are the astrologers lauding when they say "warrior of
•	Warriors, nero of neroes, champion of champions ?
1V.	How is the line, "the most fantastic aspect of his demise", an example
	of contrast?
4.	Answer the following questions in about 40-50 words.
1.	Douglas uses sensory details to create a vivid image of the unfortunate
	experience in the pool. What might be the impact on the reader if the
	narration were more informative than sensory? (<i>Deep Water</i>)
ii.	Identify an instance of hope or resilience in 'Lost Spring' and analyse
	how it reflects one of the story's themes.
iii.	Interpret the use of visual imagery by Kamala Das in her poem to
	depict the passage of time. (My Mother at Sixty-six)

iv.	What does the contrasting imagery of the church clock and the
	Prussian trumpets represent, in 'The Last Lesson'?
5.	Answer the following question in about 120-150 words.
	In the story, 'The Third Level' by Jack Finney, Charley is obsessed
	with finding the third level. In an attempt to thrash out whether this
	obsession is a good quality or a harmful one, Charley's wife expresses
	her thoughts in a diary entry.
	As Louisa, Charley's wife, write this diary entry. Support your
	response with reference to the story.
	You may begin this way:
	I have been married to Charley for a few years now and I have always
	known him to be an intelligent man with an imaginative mind.
	However, his recent obsession with finding the Third Level has

DAV PUBLIC SCHOOL, DVC, MTPS SUMMER HOLIDAY ASSIGNMENT

CLASS: 12

SUBJECT: PHYSICS

Assertion Reason

For question numbers 1, 2 and 3 two statements are given- one labeled **Assertion** (A) and the other labeled **Reason** (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

- a) Both A and R are true, and R is correct explanation of the assertion.
- b) Both A and R are true, but R is not the correct explanation of the assertion.
- c) A is true, but R is false.
- d) A is false, and R is also false.
- 1. **Assertion**(**A**): Gauss's law cannot be used to calculate the electric field near an electric dipole. **Reason**(**R**): Electric dipole do not have symmetrical charge distribution.
- 2. Assertion (A): A spherical balloon carries a positive charge that is uniformly distributed over its surface. As the balloon is blown up, the total electric flux coming out of the surface increases.

Reason (**R**): With the increase in surface area of the balloon its surface charge density increases.

Assertion (A): The apparent depth of a tank of water decreases if viewed obliquely.
Reason (R): As the observer's eye position moves away from the normal the angle of refraction increases.

Answer the following questions

4. The image of a small electric bulb fixed on the wall of a room is to be obtained on a opposite wall 3 m away by means of a large convex lens. Find the maximum possible focal length of the lens required for the purpose.

5. A biconvex lens made of a transparent material of refractive index $\frac{5}{4}$ is immersed in water of

refractive index $\frac{4}{3}$. Will the lens behave as a converging or diverging lens? Justify your answer.

6. A pole stands in a pool of water such that the sun shines at an angle as shown in the diagram. The ratio of the height of the pole above the water, a_1 to that inside the water, a_2 is $\frac{\sqrt{3}}{\sqrt{55}}$.

(a) Complete the ray diagram to show the formation of the shadows of the pole on the water surface and at the bottom of the pool.

(b) Show that the ratio of length of the shadow of the pole on the water surface to that at the bottom of the pool is 1/4. Take refractive index for the pool water is 4/3.

7. Write the 6 activities in activity copy as shared with you and according to the instructions given.



Chemistry

Part: A: Investigatory Project

Prepare a **CHEMISTRY INVESTIGATORY PROJECT** on the topic assigned to you in this following table

Roll nos.	Topics
01-12	Adulteration in food stuffs
13-24	Preparation of Soybean Milk and it's comparison with natural milk
25-36	Sterilization of water using Bleaching powder
37-47	Comparative study of commercial antacids

Use A4 size sheets for the project including various newspaper clippings, images, latest discoveries and inventions relevant to the topic. Follow the given headings in the project:

- a) Introductory page
- b) Certificate
- c) Acknowledgement
- d) Index/Contents
- e) Introduction
- f) Aim
- g) Chemicals Required
- h) Procedure/Experiment(s)
- i) Observations
- j) Result
- k) Conclusion
- l) Bibliography

Part: B: Solve the following questions:



Identify the plot Write down the law associated with it along with mathematical expression.

2. Calculate the mole fraction of benzene in vapour phase if 160 g of benzene is mixed with 200 g of toluene. (Given: The vapour pressure of pure benzene and toluene at 300 K are 50.71 mm Hg and 32.06 mm Hg respectively.) Provided that Benzene and toluene form ideal solution over the entire range of composition.

3. Write the Nernst equation and EMF of the following cells at 298 K: $Al(s)|Al^{3+}(0.001M)\;||Cu^{2+}(0.0001\;M)\;|Cu(s)$

4. Alkyl chlorides with aqueous KOH give an alcohol as a major product but in the presence of alcoholic KOH, alkenes are major products. Explain.

5. Solvolysis of CH₂=CH-CH₂-Br proceeds through S_N^1 mechanism though bromine is attached to a primary carbon. Explain.

DAV PUBLIC SCHOOL DVC MTPS

CLASS-XII

SUBJECT -BIOLOGY

- 1. During microsporogenesis, meiosis occurs in :
- (a) Endothecium
- (b) Microspore mother cells
- (c) Microspore tetrads
- (d) Pollen grains.
- 2. In a fertilised embryo sac, the haploid, diploid and triploid structures are :
- (a) Synergid, zygote and primary endosperm nucleus
- (b) Synergid, antipodal and polar nuclei
- (c) Antipodal, synergid and primary endosperm
- 3. Identify the wrong statement from the following:
- (a) High levels of estrogen triggers the ovulatory phase
- (b) Oogonial cells start to proliferate and give rise to functional ova in regular cycles from puberty onwards.
- (c) Sperms released from seminiferous tubules are poorly motile/non-motile
- (d) Progesterone level is high during the post-ovulatory phase of menstrual cycle.
- 4. In angiospermic plant before formation of microspore sporogenous tissue undergo cell division
- (a) Name the type of cell division.
- (b) What would be the ploidy of the cells of tetrad?
- 5. Case Study Questions:
- 1) Read the following and answer any four questions from (i) to (v) given below:

Cleavage is the series of rapid mitotic divisions in zygote and forms blastula. The 2, 4, 8, 16

daughter cells are called blastomeres. Embryo with 64 blastomeres is known as blastocyst andhas blastocoel cavity. Blastocyst gets implanted in uterine wall and leads to pregnancy.

- (i) Solid mass of cells with 16 blastomeres is called:
- a. Morula b. Blastula .c. Gastrula. d. Zygote.
- (ii) At which stage of embryonic development, trophoectoderm develops?

a. Zygote .b. Morula. c. Blastula .d. Gastrula.

(iii) Site of implantation is:

a. Endometrium of uterus.b. Cervix.c. Uterine fundus. d. Infundibulum of oviduct.

(iv) Correct sequence of various structures formed during embryonic development is:

a. Morula \rightarrow Embryo \rightarrow Gastrula \rightarrow Blastula.

b. Zygote \rightarrow Embryo \rightarrow Morula \rightarrow Blastula.

c. Blastula \rightarrow Morula \rightarrow Gastrula \rightarrow Embryo.

d. Zygote \rightarrow Morula \rightarrow Blastula \rightarrow Gastrula.

INVESTIGATORY PROJECT-

Follow the given guidelines for investigatory project-

1.Coverpage with name of school, session, title of project, your name, board roll no. (Printed).

2.Acknowledgement 3. Certificate 4. Index 5. Introduction 6. Why is the project is selected ? 7. Objectives 8. Conclusion 9. Futuristic approach

10. Bibliography (2-10 hand written).

Topics for investigatory project-

1.Comparative study of effects of manures, fertilizers and organic farming in agriculture. (Roll no. 1,5, 7,10,26)

2. Eichornea- a deadly killer to most wanted weed .(Roll no-3.6,11, 37,40)

3.Diabetes- Occupational or life style effect .(4,16,38. 20,41)

4. Presence of nutrition in the algal bloom and its utilization in agriculture.(17,22,27, 24,33)

5.Economical value of five plants available in your school campus.(19,23,32,34,45)

6. Biofuel a substitute of petrol / diesel .(12,28,30,35 39,)

7. Conservation of biodiversity will make the life sustainable.(15,18,25,36,,43)

Holiday Home work

Mathematics

Class -XII

1.	$f 3A - B = \begin{bmatrix} 5 & 1 \\ 0 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 4 & 2 \\ 3 & 5 \end{bmatrix}$ then find the value of
	matrix A.
2.	If $\begin{bmatrix} x - y & z \\ 2x - y & w \end{bmatrix} = \begin{bmatrix} -1 & 4 \\ 0 & 5 \end{bmatrix}$ then find the value of x + y.
3.	$\begin{bmatrix} 0 & a & -3 \end{bmatrix}$
	If the matrix $A = \begin{bmatrix} 2 & 0 & -1 \end{bmatrix}$ is skew-symmetric, find the
	values of 'a' and 'b',
4.	If $\tan^{-1}x + \tan^{-1}y = \pi/4$; xy < 1, then write the value of x + y +
	xy.
5.	Write the principal value of $\tan^{-1}(1) + \cos^{-1}(-1/2)$.
6.	Solve for x, $\tan^{-1} 3x + \tan^{-1} 2x = \pi/4$.
7.	$x^2 - 9$
	Find the point of discontinuity, $f(x) = \frac{1}{3x^2 + 2x - 8}$.
8.	Differentiate: $f(x) = x^{1001} + 5x^3 - 6x + 10,687$.
9.	Differentiate: $z(x) = x^{5/2} e^x \sin x$.
10.	If $y = \frac{\sqrt{1+x^2-1}}{x}$ then find $\frac{dy}{dx}$.
11.	If $\sqrt{1-x^{6}} + \sqrt{1-y^{6}} = a^{3}(x^{3}-y^{3})$ then find $\frac{dy}{dx}$

DAV PUBLIC SCHOOL, DVC, MTPS SUMMER HOLIDAY ASSIGNMENT

CLASS: XII

SUBJECT: Computer Science

1. Guess the output of given code and justify your answer.

A=5 b=5 print(id(A),(id(B))

- 2. Mention the keywords of python starting with capital letter.
- 3. Write down the statement to merge given dictionaries. dict_exam={"Exam":"IISER", "Year":2025} dict_result={"Total":5, "WB":"Kolkata"}
- 4. Is there any Boolean data type in Python? If yes mention two boolean literals.
- 5. Guess the output of given code .

a = "Year 2022 at All the best" a = a.split('2') b = a[0] + ". " + a[1] + ". " + a[3] print (b)

- 6. ASSERTION AND REASONING based question Mark the correct choice as
 - (a) Both A and R are true and R is the correct explanation for A
 - (b) Both A and R are true and R is not the correct explanation for A
 - (c) A is True but R is False
 - (d) A is false but R is True

Assertion (A):- If the arguments in function call statement match the number and order of arguments as defined in the function definition, such arguments are called positional arguments.

Reasoning (R):- During a function call, the argument list first contains default argument(s) followed by positional argument(s).

- 7. Define a function to calculate rate of interest having Principal, Rate and Interest as default parameter. Write different function calls with one, two, three arguments.
- 8. Determine whether a number is a perfect number, an Armstrong number or a palindrome using three different user defined functions.
- 9. Compute the greatest common divisor and least common multiple of two integers using two different user defined functions.
- 10. Define a function to determine and return largest and smallest number in a list.

HOLIDAY HOMEWORK

CLASS XII SUB- PAINTING

(Theory)

1) "A group of polo players, all mounted on horse – backs with polo – sticks in there hands"

Name the painting described here. Also mention the name of the artist, sub – school and medium of painting.

- 1) In the Basoli school, the coordination of the ornamental form of nature and the elements of folk art is seen together, which was filled with reverence and devotion by the painters of Basohli by filling them with colours of divine and selfless love.
- a) From your course of study identify the painting of Basohli School and write Title and the name of the painter.
- b) Describe the Artistic features of the painting in your own words.

3) The artist from Rajasthani school of miniature painting has ingeniously divided the painting in two parts representing Rasikpriya poetry of Keshavdas in which Radha is offended by the behaviour of krishna.

Identify the painting included in your syllabus which has the above characteristics. Then interpret this painting on the basis of the following points:

- a) Title of the painting and name of its painter
- b) Medium and sub school.
- c) Theme (subject matter), and compositional arrangement of the painting

4) On which themes/topic have the artists laid emphasis to make miniature paintings in Rajasthani school?

5) What are the characteristics of Pahari school of miniature painting?

6) Describe the origin and development of the Pahari school of miniature painting?

7) Mention any three features of Pahari school of miniature painting.

PRACTICAL WORK

(to be doen in the A3 size paper/copy)

- 1) Draw the portrait of any two famous personalities .
- 2) Make a composition of any Bengal festival
- 3) Make a composition of vegetable market.
- 4) Draw a Mandala art.
- 5) Draw a Gond art

D.A.V. PUBLIC SCHOOL, DVC, MTPS, Bankura -- 722183 Academic Session: 2025 – 2026

Class : XII

Subject : Physical Education

Summer Vacation Holiday Home Work

Q.NO.	QUESTION
1.	Assertion (A): Female athletes often suffer from menstrual irregularities due to
	excessive training.
	Reason (R): Intense physical activity can cause hormonal imbalances that
	disrupt the menstrual cycle. A Both A and B are true, and B is the correct explanation of A
	A. Both A and R are true, but R is not the correct explanation of A.
	C. A is true, but R is false.
	D. A is false, but R is true.
2.	A young female athlete, aged 13, reports irregular menstruation and fatigue
	during training. Her coach explains this could be due to hormonal changes as
	she recently began menstruating.
	What is the term used for the first occurrence of menstruation?
	A. Menopause B. Ovulation
	C. Menarche D. Fertilization
3.	The physical education teacher of DAV Public School is planning the Annual
	Sports Day. She wants to ensure maximum participation, smooth conduct of
	events, and proper management of resources. She has decided to follow
	systematic planning which includes budgeting, choosing the right dates,
	Preparing a fixture, and assigning duries to reachers and student volumeers. Based on the above case, answer the following questions:
	based on the above case, answer the following questions.
	1. Which type of planning is being followed by the teacher?
	a) Long-term planning
	b) Short-term planning
	c) Contingency planning
	d) None of the above
4.	Preparing a fixture for sports competitions is an example of:
	a) Budget planning
	b) Scheduling
	a) Coordination
	c) coordination
	d) Supervisio
5.	Neha, a Physical Education teacher, is planning to organize a Zonal Athletics
2.	Meet in her school. She wants to ensure proper time management, smooth
	conduct and active participation
	conduct, and donve participation.
	Answer the following questions:

	1. Why is planning important before organizing such a big event?
	2. Which type of tournament is best for athletics events and why?
	3. Mention two committees Neha must form and their responsibilities.
	4. What are the objectives of tournament planning?
	5. How does planning help in reducing errors during the event?
6	Prepare a league fixture using the tabular method for 6 teams participating in an inter-house football tournament
7	avi, a 17-year-old student, often complains of back pain and is observed walking with a hunched back. His Physical Education teacher suspects that he might have a postural deformity.
	Answer the following questions based on the given situation:
	1. Name the postural deformity Ravi is likely suffering from.
	2. Mention any two causes of this deformity.
	3. Suggest two corrective measures or exercises for his condition.
	4. List any two other common postural deformities.
	5. Why is it important to correct postural deformities at an early age?
	*PRACTICAL- PROCEDURE FOR ASANAS, BENEFITS AND CONTRADICATION FOR ANY SIX ASANAS FOR EACH LIFESTYLE DISEASE.