

M R Vivekananda Model School sector 13 Dwarka

HOLIDAY HOMEWORK- Class –XII-B (2024-25)

Dear Parents,

The most awaited Summer Break is from 20th May to 30th June. As per forecast by weather department the temperature will rise more and warm breeze (Loo) will blow. We suggest the following to remain healthy and hydrated:

- **Wear cotton clothes, Consume more liquids and water, Go for morning walk and remain indoors. We want students to utilize this time by reading newspapers, spending value time with elders and grandparents, help parents with daily chores, watch informative TV channels such as National Geographic and Discovery etc.**
- **Students have been given interesting, creative and knowledgeable home work. Ensure that your ward does the task on his/her own using innovative ideas. Parents are advised to guide their ward only.**

Principal

ENGLISH

****Based on your reading of the chapters and as discussed with teacher make attractive Projects.**

Here are some suggestions for your Class 12 English project for CBSE:

1. **Climate Change and its Impact:** Explore the causes and effects of climate change on the environment and discuss the importance of understanding this issue
2. **Corruption and its Consequences:** Investigate the impact of corruption on the progress of a nation and discuss its ethical and social implications
3. **Reservation in Academics:** Analyse the concept of reservation in educational institutions and debate its justification and effectiveness
4. **Women Empowerment and Changing Gender Roles:** Examine the role of women empowerment in reshaping gender roles in society and discuss its significance .
5. **Mental Health Awareness:** Highlight the importance of mental health awareness and discuss ways to promote mental well-being .
6. **Artificial Intelligence in Healthcare:** Explore the pros and cons of using artificial intelligence in the healthcare system and discuss its potential impact
7. **Globalization and its Effects:** Study the impact of globalization on the culture and economy of developing nations and analyze its advantages and disadvantages .
8. **Significance of Indian Literature:** Cite works of Indian authors to illustrate the importance and impact of Indian literature .
9. **Pollution Control Measures:** Discuss various ways to control pollution and emphasize the

importance of environmental conservation .

10. Analysis of Indian Cinema: Conduct a critical analysis of Indian cinema, its evolution, and its impact on society .

Remember to choose a topic that aligns with the CBSE guidelines and allows you to showcase your creativity and writing skills. Conduct thorough research, organize your ideas effectively, and present your project in a clear and understandable manner.

Make projects as per the following :-

I. Cover Page – Title of Project, School details & detail of students

II. Statement of Purpose / objectives / goals. III. Acknowledgement

IV. Certificate of completion under the guidance of the teacher. V. Action Plan for the Project

VI. Questionnaires for interview

VII. A 'Report' on the Topic opted for. (1000-1200 words)

VIII. Conclusion

IX. Student Reflection

X. List of resources / bibliography

2. INCLUSIONS:

i. Photographs that capture the positive learning experience of the student.

Writing Section

****Write the following answers in your registers.**

Article Writing

1. Recently the success of the Indian space mission to Mars was in the news. Write an article in 150-200 words on 'Mangalyaan a feather in India's Cap. You are Saroj/Sameer.

2. The government campaign against female foeticide and the killing of newborn as well as infant girls has been much in the news recently. Write an article in 150 – 200 words on the Beti Bachao, Beti Padhao (Save the girl child, educate the girl child) campaign. You are Vineet/Vineeta.

3. All activities of man create some pollution and waste. This pollution can be reduced by changing our habits. The need of the hour is to reduce pollution by various ways. Write an article on the topic 'Pollution Control, the Need of the Hour' in 150-200 words. You are Arvind / Aastha, a keen environmentalist.

4. You are Sweety/Suresh of L.M. Jain School, Ajmer. As Secretary of your School Co-curricular Activities Club, you visited a slum area in your city where the people suffered a great loss of life and property in a massive fire. The students of your school rendered their services and material help to the victims. Write a report in 100-125 words for your school magazine. (Delhi 2010)

5. Recently your school held a Seminar on Conservation of Water as a part of World Water Day celebrations. As the School Pupil Leader of Maryland School, Gurgaon, write a report in 100-125 words for a local daily. Sign as Pritham/Preeti. (Delhi 2010)

6. Your school organised an exhibition-cum-sale of the items prepared under Work Experience Certificate by your school students. There was an overwhelming response from the public. Prepare a report in 100- 125 words for a local daily. You are the Coordinator, S.U.P.W. activities, Nita School, Gurgaon. (All India 2010)

7. You have found an expensive geometry box in the school playground. Draft a notice in not more than 50 words for the school notice board. You are Ra'Rani, Class XII, Angel School, Faridabad. (Delhi 2010)

8. You are SrinivafSrinidhi of D.P. Public School, Nagpur. As Student Editor of your school magazine, draft notice in not more than 50 words for your school notice board inviting article sketches from students of all classes. (Delhi 2011)
9. You are Secretary of J.P. Narain Housing Society, R.W.A., Meerut. Draft a notice in not more than 50 words stating that the second instalment of maintenance charges falls due on 31st March 2011, and requesting the members to pay before the due date. Sign as Anil/Anita. (All India 2011)

Report Writing

- Q1. MMD School, Nashik, recently organised a science symposium on the topic: 'Effect of pollution on quality of life'. You are Amit/Amita Raazdan, editor of the school magazine. Write a report on the event for your school magazine. (120 – 150 words)
- Q2. You are Karan/ Kirti of L.M. Memorial Public School, Dwarka. Your school has adopted a village as a social responsibility. Students are being taken to teach the children of that village on a regular basis. Write a report, for your school magazine, on the various other programmes organized there in 120 – 150 words.
- Q3. Cultural Society Sunshine Public School, Nellore organised an adult literacy camp in its neighbourhood. Write a report in 120 – 150 words on the camp for your school newsletter. You are P.V. Sunitha, Secretary. Use the following clues: no. of volunteers – hours spent in teaching – location of the class – chairs, blackboards – no. of people attending the camp – benefit.
- Q4. You are Sandhya/ Sohan an active member of the Animal Lovers Club which works for the welfare of animals by preventing cruelty to them. Recently you visited Mahatma Gandhi Animal Care Home. You were pleasantly surprised to see the good treatment given to the animals. Write a report in 120 – 150 words on your visit.
- Q5. Independence Day was celebrated in your school. District Magistrate, Ms. Indu Bala Sharma was the Chief Guest. Write a report on the function in 120 – 150 words describing all the activities that took place. You are Head boy/Head girl.

PHYSICS

1. Do Assignments in notebooks Assignments of ch -1 to 3
2. Do project on A -4 sheets
Project - Allotted to students according to their Roll numbers

LIST OF PHYSICS PROJECTS	
Roll NO.	TOPICS
1	Comparison of light outputs of different sources
2	Eddy Current
3	To measure resistance and impedance of an inductor with or without iron core

4	Resistance of Pencil Leads
5	Diffraction pattern to measure pitch of DVD/CD
6	Effect of temperature on magnetic strength
7	Simple harmonic motion of a spring-determining the effect of mass on the period of spring's movement.
8	To find the refractive index of (a) water (b) oil using a plane mirror, an equi-convex lens, and an adjustable object needle
9	Variation in Emergent ray (angle) using coloured glass slab.
10	To study variation of current in a circuit containing a light dependent resistor
11	<i>To study of factors affecting rate of cooling- Newton's law of cooling</i>
12	FACTORS ON WHICH INTERNAL RESISTANCE OR EMF OF A CELL DEPENDS
13	Across the universe: to calculate the constant velocity at which a person in a spaceship would have to travel to get from Earth to the edge of the portion of universe visible from earth which is about 13.7 billion light years.
14	Relay and Electromagnetism- Burglar alarm ,alternate switching and oscillator
15	water level indicator alarm
16	Effect of surface tension on a liquid: To show that soap solution reduces the surface tension of a liquid
17	To determine the Faraday law of electromagnetic induction by using a copper wire round over an iron rod and strong magnet
18	To estimate the charge induced on two identical styro foam balls suspended in a vertical plane using Coulomb's law
19	The working of an EMP (electro magnetic pulse) device.
20	To construct a full wave bridge rectifier and show that AC is rectified into DC
21	To study deterioration of water using different fruit peels
22	Factors affecting SELF INDUCTANCE OF A COIL
23	effect of pressure on ball bounce height
24	To investigate the relation between the ratio of input and output voltage of transformer.
25	classification of magnetic materials
26	Find refractive index of different materials using hollow glass prism
27	Logic gates
28	Variation of R with length and area of cross section using metre bridge
29	factors on which EMF of a cell depends
30	charging and discharging of capacitor in R-C circuits
31	Transformer.

32	Logic Gates
33	Social Distancing device using electronic sensors and transistors.
34	Diffraction pattern and find out the width of central maxima
35	find refractive index of water and oil using plane mirror, equiconvex lens
36	to determine the faraday's law of electromagnetic induction using copper wire wound over an iron rod and a strong magnet
37	To show that soap solution reduces the surface tension of a liquid
38	Measurement of mutual inductance of 2 coils
39	demonstration of eddy current with aluminum coil
40	To investigate whether a pencil acts as a resistor and if so, then what is the variation of resistance with respect to the length of pencil.
41	Determination of internal resistance of battery eliminator by using potentiometer

3. Revise all topics done in class

Chemistry

1. Prepare Notes, NCERT questions and PYQ of Ch-Solution and ch- Electrochemistry
2. Do Assignment of Ch- Electrochemistry and Ch- Solution.
3. Make a PDF for both the chapters and submit it
4. Complete your practical file .
5. Prepare Ch-Solution and Ch- Electrochemistry for Periodic test.
6. Make Investigatory Project on any one topic which is given as below-
 - (i) Identification of Anions and Cations present in the Toothpaste
 - (ii) Determination of caffeine in different Tea Samples.
 - (iii) Qualitative analysis of Coconut water.
 - (iv) Analysis of different brands of cold drinks.
 - (v) Presence of cation and anions in different holi colours (Gulal).
 - (vi) Coin Analysis
 - (vii) Qualitative analysis of different brands of Chocolates available in market.
 - (viii) Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, chilli powder and pepper.
 - (ix) Qualitative analysis of honey.
 - (x) Study of quantity of casein present in different samples of milk

BIOLOGY----- Project topics

The projects must include certificate ,index ,content ,pictures ,case study and interpretation .

1. Infertility causes and treatment
2. Effect of smoking on adolescence

3. Medicinal plants and their use
 4. Genetically modified food
 5. Biological control agents
(case study on locust attack on Parts of India)
 6. Bioweapons
 7. Chromosomal disorders
 8. Corona virus and it's effect Positive & negative
 9. Tissue culture
 10. Role of biotechnology in the field of medicines
- Project must include atleast two case studies
Project must include coloured pictures
Also include case study
All students will do assignment based on unit 1
Prepare ch-1,2,3

MATHEMATICS

Revise NCERT chapters 2 to 5 (Exercise and Examples)

Solve assignments in notebooks

Write all formula of chapter trigonometric function, differential and integral in your notebook and revise it daily.

Write Practical No. 2,3,5 in file

PHYSICAL EDUCATION

Q1) BMI of a obese person is :

- a) 19 to 25 b) Less than 28 c) Greater than 30 d) Less than 30

Q2) obesity means:

- a) Less insulin production b) Accumulation of fat
c) Burning of fat d) Enlargement of heart

Q3) What is the excess percentage of the normal weight is called obese:

- a) 15% b) 20% c) 25% d) 30%

Q4) Which of the following asana is not used for obesity:

- a) Ardhamatsyendrasana b) Vajrasana
c) Shalabhasana d) Trikonasana

Q5) Choose the asana which is used for obesity:

- a) Sukhasana b) Shavasana c) Vajrasana d) Shalabhasana

Q6) choose the asana for curing diabetes

- a) Trikonasana b) Vajrasana c) Ardhamatsyendrasana d) Shalabhasana

Q6) If pancreas are not producing enough insulin. It may lead to-

- a) Migrane b) Obesity c) Diabetes d) Hypertension

Q7) A disease associated with respiratory tract is known as :

- a) Diabetes b) Obesity c) Asthma d) Back pain

Q8) choose the asana which helps to control asthma:

- a) Pavanmuktasana b) Trikonasana c) Hastasana d) Chakrasana

Q9) coughing heavy breathing, chest tightness are the symptoms of :

- a) Asthma b) Diabetes c) Obesity d) Back pain

Q10) the pressure of blood increases on the walls of aorta:

- a) Back pain b) Obesity c) Hypertension d) Asthma

Q11) select the asana used to reduce hypertension.

- a) Trikonasana b) Chakrasana c) Shavasana d) Sukhasana

Q12) which asana is not practiced in hypertension.

- a) Vakrasana b) Vajrasana c) Tadasana d) Ardhhchakrasana

Q13) Neeti along with her father was regular at District Park in early morning. She realized that most of the children are obese. She along with her few classmates wanted to help those children. She discussed with her physical education teacher and the Principal of the school. School decided to organize awareness rally for the neighborhood.

A. Obesity causes

- (a) Underweight (b) Diabetes (c) Back pain (d) Both b & c

B. Which of the following Asana (posture) is not used for curing obesity.

- (a) Ardhmatsyendrasana (b) Vajrasana (c) Parvatasana (d) Trikonasana

C. Choose the Asana which is used for curing obesity

- (a) Sukhasana (b) Shavasana (c) Vajrasana (d) Shalabhasana

Q14). Raman is a student of class VIII and is suffering from Obesity. During a recent medical check-up at school, he was advised to practice yoga and participate in sports activities for curing it. He consulted the yoga instructor at the school for further guidance.

Based on this case answer the following questions:

A. The yoga instructor at the school has asked Raman to perform

- (a) Bhujangasana (b) Pawanmuktasana (c) Vajrasana (d) Chakrasana

B. The BMI index for an Obese person is

- (a) <18.5 (b) 18.5-24.9 (c) >30 (d) >25

C Due to the Obesity; Raman is also suffering from knock knees for which he is advised to

- (a) Walk on inner edge of foot (b) Walk on outer edge of foot
(c) Walk on heels (d) Walk on toes

Q15) 1. The above pose can be identified as

- (a) vajrasana (b) trikonasana (c) Chakrasana (d) padmasana

2. This asana is used to cure

- (a) Obesity (b) diabetes (c) Knee pain (d) Asthma

3. Normal Blood pressure in an adult is _____

- (a) 120/80mm (b) 140/90mm (c) 80/100mm (d) 100/80mm

4. This asana is contraindicated when a person is suffering with _____

- (a) Knee pains (b) gastric problem (c) Sciatica (d) hernia

5. While performing this asana, breathing should be _____

- (a) slower (b) faster (c) only inhale (d) only exhale

Q16) Do practical file work :

Practical 1- fitness test administration (SAI khelo india fitness test)

Practical 2- procedure for asanas , benefits and contraindications for any 2 asanas for each lifestyle disease.

(5 lifestyles diseases are there i.e. total 10 asanas , 2 of each)

Practical 3- labelled diagram of field and equipment of any one of the games mentioned below. Also mention its rules, terminologies and skills. (basketball,volleyball,kabaddi.

PSYCHOLOGY

Chapter 1. Variations in Psychological Attributes

1. Creative test measure _____ thinking.

2. When MA=CA, IQ will be _____.

3. _____ of a test refers to its consistency

4. Calculate the MA of a 10 year old boy who has an IQ of 120.

5. Triarchic theory of intelligence was proposed by _____.
6. _____ was defined by Binet and Simon as being two mental age years below the chronological age.
7. _____ believe that situations and circumstances in which one is placed influences one's behaviour,
8. _____ is exceptional general ability shown in superior performance in a wide variety of areas.
9. _____ behaviour refers to a person's capacity to be independent and deal effectively with one's environment.
10. Name the Psychologist who proposed the two factor theory of intelligence.
11. _____ are enduring beliefs about an ideal mode of behaviour.
12. _____ proposed the structure of intellect model.
13. If a person has a skill of understanding the motives, feelings and behaviours of other people, S/he is said to have :
 - a) Interpersonal intelligence b) Intrapersonal intelligence
 - c) Linguistic intelligence d) Social intelligence
14. The theory that assumes intelligence as one similar set of abilities is called _____.
15. Gardner gave the theory of _____.
16. _____ gave the concept of seven primary mental abilities.
17. The ability to monitor one's own and other's emotion and use the information to guide ones thinking and actions is called _____.
18. A person with IQ of 85 is considered to have :
 - a) average IQ b) borderline IQ c) Mild mental retardation d) moderate mental retardation
19. An individual's capacity to acquire some specific knowledge or skill is called _____.
20. A student with high aptitude in verbal reasoning and strong interest in reading is more likely to succeed as:
 - a) Engineer b) Journalist C) Doctor d) Businessman
21. Remarkable ability in a certain field is called _____.
22. The Cognitive Assessment System was developed by _____.
23. Ravens progressive matrices is an example of _____ test.
24. _____ made a pioneering attempt in constructing an intelligence test in Hindi.
25. Intelligence that gives emphasis on connectivity with the social world and environment in the Indian tradition is called _____.
26. The preference for a particular activity is called _____.
27. _____ has developed an Indian adaptation of Differential Aptitude Test.
28. Intelligence does not ensure creativity - (True / False)
29. Facets of intelligence according to Indian tradition are cognitive, social, emotional and _____ competence.
30. _____ attempted to standardize Binet's test in Bengali.
31. The bell shaped curve representing frequency distribution of IQ scores is called the _____ curve.
32. In the year _____ Binet and Simon made the first successful attempt to measure intelligence.
33. Environmental deprivation lowers intelligence (True / False)
34. Das, Naglieri and Kirby gave the _____ model of intelligence.
35. The analysis of information to solve problems is called _____ intelligence.
36. People with _____ intelligence may be called street smart.
37. _____ devised the concept of Intelligence Quotient.
38. Intelligence is a product of complex interaction of nature and _____.
39. _____ and _____ gave the concept of Emotional Intelligence.
40. _____ argued that culture provides a social context in which people live, grow and understand the world around them.