

ROYAL OAK INTERNATIONAL SCHOOL
SR. SEC. CBSE AFFILIATED
HOLIDAY HOME WORK (SESSION 2020-21)
Class - XII



Please note the following:

- 5 marks for the Holiday Homework will be awarded to each student in the internal assessment for Term I progress report.

Wishing you all a very fruitful and enjoyable vacations. **HAPPY HOLIDAYS!**

Stay Home, Stay Safe. Adopt Social Distancing

FOR THE PARENTS

Summer vacations are here. So, we are coming out with feeling like an Easter flower in bloom rather than a cracked Easter egg!

1. Tap the talent of your child and let them be creative.
2. Keep at least half an hour a day for sharing experiences with your child.
3. Use holiday homework as an opportunity to spend quality time together. Let your child take the lead and use his/her imagination, creativity and knowledge to do the assigned task.
4. Learning doesn't stop when school is out. This rule came out of desperation.
5. Tell your child different stories regularly and encourage them to describe what they would do in a similar situation. Here are few suggested titles which you can read with your child.
 - a. Lacey-the little mermaid fairy.
 - b. Panchatantra stories.
 - c. Giraffe can't dance
 - d. I like myself
 - e. Dolphins at the day break.
6. Encourage your child to speak in English. Fix one hour in a day when you communicate with your child only in English.
7. Set a goal for yourself and your child. Spend 1 hour each day reading and writing. Plan a certain time that is convenient, perhaps right after the evening meal.
8. Develop self help skills : Let your child dress and feed on their own.
9. Restrict his/her television watching, confining it to interesting children's program, discovery channel etc.
10. Make his/her understand the importance of cleaning his/her room .
11. Take good care of your health and hygiene. Avoid heavy and oily food and increase intake of fresh food and water to keep yourself well hydrated and energetic.
12. Introduce them to fun-filled activity boxes - These activity boxes help the children to nurture their creativity and imagination through art explorations, cooperative games, and challenging tasks.
13. Resources for talking to kids about COVID-19: The Child Study Centre hosts educational webinars throughout the year. In its latest webinar, Everyone is Anxious. Talking to your child about Novel Corona Virus, discuss how to help children cope with COVID-19 and provide ideas by diagnosis and developmental level.

Conclusion : It may not be easy for the parents to ban their children completely from watching TV or playing games on their phones in one shot. However, they can induce gradual changes by cutting down a few screen hours and introduce the above-mentioned activities to their schedule.

Have a nice time!

PRINCIPAL

ENGLISH

A. 2. Read the following passage and answer the questions that follow:

Pondicherry as a seaside resort has an enchanting ambience, not felt anywhere else in India. It is a blend of spiritual aura, French colonial heritage. Tamil culture and the cosmopolitan flair of many nationalists in a small, vibrant town. The inherent ambience of Pondy, as it is fondly called becomes most evident in the oldest part of the town. Colonial buildings some of which were built in the 18th century, line the clean streets and house the French institutions, private homes, businesses and the famous Sri Aurobindo Ashram. Quiet beaches and peaceful resorts to the north and south balance the town's bustling, yet easy going life.

It is also the perfect base to explore the rich destinations around it. Auroville, the International City of Unity with Matrimandir as its centre, has a dome which has the largest man made crystal in the world at the top of the dome. The crystal filters the harsh sunlight and lets in a soothingly sufficient light into the meditation hall. Anchor yourself in Pondy and find in your reach the imposing Gingee Fort, the holy temple of Kanchipuram, Tiruvannamalai and Chidambaram, the heritage sculptures and magnificent rock temples of Mamallapuram and the lush hill stations of Yercaud and Kodaikanal.

Monuments are plenty in Pondy and each one has a story to tell. The Aayi Mandapam at the centre of the park was built during the reign of Napoleon III in France and named after a 16th century courtesan Aayi, who demolished her house and built a water tank instead. This to appease a passing king who had mistaken her candle lit home for a holy place. This reservoir served French engineers later to bring water to the town.

Pondicherry is best accessible by road from Chennai, Bangalore and even from Kerala. It has wide choice of hotels, beach resorts for the easy going tourists and families, heritage hotels for those who want to experience something more than the present, high class commercial hotels for the corporate visitor and the neat Ashram Guest Houses for the spiritual seeker.

Pondy has a lot to offer to the shoppers and is fast becoming a favourite shopping destination. It is soft on your purse with taxes either low or non-existent. It is known for its traditional doll making and textiles and silks. But it is also the birth place of several of several world class brands in leather, pottery, aromatics, fashion and handmade paper. The proliferation of exquisite decor boutiques and export quality antique furniture galleries is the latest trend.

2.1 Choose the most appropriate options from the following :

(a) Pondy's ambience is unique because

- (i) Sri Aurobindo Ashram is there
- (ii) its lifestyle is easy going and peaceful
- (iii) it's a blend of different cultures and heritage.
- (iv) there are beaches in the north and south of town

(b) Which one of the following is a reminder of Pondy's French connection?

- (i) the Matrimandir
- (ii) the Aayi Mandapam
- (iii) the Sri- Aurobindo Ashram
- (iv) the Gingee Fort

(c) The monument at the centre of the Park is famous because

- (i) it was made by Napoleon III
- (ii) it is the only monument with a story
- (iii) earlier it was a candle – lit holy place
- (iv) Aayi, a courtesan, built it to appease a king

(d) Pondy's heritage hotels are meant for those who

- (i) want a stay with a spiritual touch
- (ii) want a luxurious stay
- (iii) want a low budget stay
- (iv) want to experience life of the past

(e) Shoppers are attracted to Pondy because

- (i) it offers beautiful soft purses (ii) they can learn traditional doll-making
(iii) taxes are low or absent (iv) it is turning into a shopping destination

(f) The word proliferation (para5) means the same as

- (i) rapid increase (ii) rapid decrease (iii) diminishing profitability (iv) rising importance

Answer the following questions briefly:

- g. What is so special about Matrimandir?
h. Mention any two factors which make Pondicherry a dream destination for any tourist.
i. How did the Aayi Mandapam get its name?
j. Pondicherry is a shopper's delight. How?
k. Find words from the passage which mean the same as each of the following:
(i) impressive to look at (Para2) (ii) to calm or pacify (Para 3)

A.1. Read the following passage carefully:-

Aesthetically arranged flowers in simple decorative containers indicate your taste to interiors and helps to create the right ambience in a room. Flowers to match or contrast the colour scheme of your decor lend a specific character to your premises.

Flowers can be placed in a living room, dining table, study or bathrooms. Different flowers for each room create homeliness. They make the room look beautiful and serene. Flowers can motivate a student to concentrate, embellish a dining table with an aura of happiness and relax the diners. Fresh flowers though especially flowers are not available throughout the year. Roses and Gladioli go pale in the summers and shrink quickly. If you want to create the effect of flowers in your environs, without having to worry about their maintenance go for artificial flowers.

With the availability of artificial flowers, one does not have to rush out to purchase fresh flowers at early hours too. The only trick is to know the art of arranging them. Once you have the arrangement right, to lift up your spirits and enhance the colour and brightness in your living room.

Artificial flowers that look real from a distance can be made of silk, crepe, velvet or synthetic paper. Some of the imported flowers have a natural sheen and unless you touch them it is difficult to make out if they are real. This is particularly true for artificial greens - shrubs, money plants, creepers, plants and trees- these look good in hotel lobbies and restaurants.

But if you purchase artificial flowers in the hope that they will last a lifetime, you are sadly mistaken. "They may not wilt as quickly as natural flowers but will require your attention for their maintenance "" says Roop Sagar, owner of flower shops at the Maurya Sheraton and Radisson Hotels.

Owing to the dust in our environment and the dust storms in summers, artificial flowers attract dirt and have to be cleaned delicately. In the monsoon months, on the other hand, dampness robs them of the sheen and they appear listless. Vacuum cleaning and soft handling restores them to their original shape and charm. "After cleaning, they require fresh arrangement with fillers like dried leaves." Adds Roop.

a. On the basis of your reading of the above passage make notes on it, using headings & Sub headings. Use recognizable abbreviations wherever necessary (minimum 4).

b. Make a summary of the passage in about 80 words.

SECTION B (WRITING SECTION AND GRAMMAR SECTION)

B.1. The National Integration Council needs a poster to promote national unity and communal harmony. Draft an attractive poster.

- B.2. On behalf of the Principal of your school, draft an advertisement inviting applications for the post of PGT (English) teacher.
- B.3. During the summer break you went on a trekking and camping trip to Himachal Pradesh with your friends. Write a factual description in about 150-200 words narrating your joys of trekking, the open air camp life and adventures of the group.
- B.4. Your school plans to launch its community radio soon. On behalf of the Principal of your school write a notice announcing the decision and inviting the students to appear for audition.
- B.5. You are Akriti/Akrit living at Bandra, Mumbai. Last month you bought a 4G mobile phone with a yearlong guarantee. Unfortunately, the set has developed a snag and is no longer working. Write a letter to the Customer Care Manager of the manufacturer complaining against the defective set and asking for a replacement. Quote the cash memo number, model and date of purchase.
- B.6. Terrorism is no more a local issue. It is a global concern now. Write a letter to the Editor of a leading newspaper voicing your concern and views on the issue which needs immediate redressal. You are Chris Harris, living in Alaknanda Apartments, Adarsh Nagar, New Delhi.
- B.7. You are Roger living in Canal Apts, Lajpat Nagar, New Delhi. Recently you read an advertisement for the post of a Sales Executive in Meera & Company, Field Ganj, Ludhiana. Write an application for job giving your complete bio-data separately.
- B.8. Outside the gate of your school there are few food carts. They don't deserve strict hygienic standards. You have observed that so many students go to them immediately after the school is over. This can create health problems. As Headboy/ Headgirl of your school, write a speech in 150-200 words on "Healthy Food" to be delivered in the morning assembly.
- B.9. Rob, the multi-faceted artist-anchor of the programme M.A.D of the POGO channel held an Art and Craft workshop in your school during the summer vacation. Write a report of the event in about 150-200 words.
- B.10. Today Indian media, both print and electronic has become very active. All major newspapers and TV channels have taken on the problems of corruption, bribery, violence, terrorism, crime and violation of human rights. You strongly feel that this is a good sign for Indian Democracy. Write an article in 150- 200 words on "Media as Watchdog of our Democracy".
- B.10. You are Neeraj/Neerja Principal of Model Secondary School, Pune. Your school has just started a music department. Write a letter to the Manager of Melody House, Pune wholesale suppliers of musical instruments, placing an order for musical instruments for the school. Ask for a discount on the catalogue prices. (120-150 words).
- B.11. The Nilgiris Senior Secondary School is holding an interschool debate on the topic, "School bullies are a menace; they should be expelled." You will be participating from your school in the debate. Write your debate in 150- 200 words choosing a stand for or against the motion.

SECTION C (LITERATURE)

C. 1. Answer the following questions in 30 to 40 words.

1. What did the French teacher tell his students in his last French lesson? What impact did it have on them?
2. What was the implication of the blacksmith's remark? How did Franz respond to his remark?
3. What explanation does the author offer for the children not wearing footwears?

4. What has Mukesh's father achieved in life despite years of hard back-breaking labour?
5. What sort of terror seized Douglas as he went down with the water with a yellow glow? How could he feel that he was still alive?
6. 'I jumped with everything I had'. Why did Douglas jump? Did the jump make any difference?
7. How did the face of Kamala's mother betray her thoughts?
8. What is the significance of the images, 'sprinting trees' and 'merry children spilling out of their homes' in the poem "My Mother at Sixty-six"?
9. How does the young and sweet boy unnoticed in the class differ from the most of other slum children?
10. How does the poet visualize the present status of the slum children?
11. Do you think that the third level was a medium of escape for Charley? Why?
12. Do you find an intersection of time and space in the story?
13. How did the 'Duraiani' behave on receiving the gifts? What idea do you form about her from her behavior?
14. Why did the Maharaja double the land tax?

C. 2. Answer the following questions in 100 to 150 words.

1. The story "The last lesson" is all about 'linguistic chauvinism'. Comment.
2. Slums are the ugly underbelly of all big cities the world over. Describe the contrasting world of 'haves' and 'have-nots' inhabiting these two worlds.
3. How was Douglas able to brush aside his fear of water?
4. How does the psychiatrist friend interpret Charley's visit to the third level?
5. The title of the Maharaja reflected grandeur but his death was an anticlimax. Justify.

HINDI

निर्देश-1. प्रश्न न0 1,2 प्रैक्टिकलफाइलतैयारकरनीहै।

2. प्रश्न न0 3,4,5 अपनीव्याकरणपुस्तिकामेंकरनाहै।

1. निम्नलिखित कवियों की में से किहं तीन कवियों का जीवन परिचय, उनकी काव्य रचनाएँ तथा उनकी कोई प्रसिद्ध कविताएँ सफेद ए-4 शीट पर सुंदर हस्त लिपि में चित्र सहित लिखकर एक फाइल तैयार कीजिए।

कालिदास, गजानन माधव मुक्ति 'बोध', जयशंकर प्रसाद,

अयोध्या सिंह उपाध्याय 'हस्त्रिभुव', मीराबाई

2. निम्नलिखित में से किहं तीन लेखकों का जीवन परिचय, उनकी रचनाएँ कहानी, नाटक संस्मरण तथा लेख सफेद ए-4 शीट पर सुंदर हस्तलिपि में लिखकर चित्र सहित एक फाइल तैयार कीजिए।

फणीश्वर नाथ रेणु धर्मवीर भारती, जयशंकर प्रसाद, प्रेमचंद्र कमलेश्वर,

3. वितान पुस्तक से पाठ-1, 2 कम से कम दो-दो बार पढ़िए तथा मुख्य पात्रों के चरित्र चित्रण तैयार कीजिए।
4. कोरोना वायरस ने एक महामारी का रूप ले लिया है इस बीमारी के कारण समी घर में बंद हैं इस विषय पर अपने माता-पिता का साक्षात्कार लिखिए।

आज विश्व में कोरोना महामारी के कारण हम ने किन-किन परिस्थितियों का सामना किया है। ऐसे में मजदूरों की कठिन समस्याओं पर रिपोर्ट तैयार कीजिए।

MATHS

1. Perform first 4 activities from the given list(URL) :

<http://www.ncert.nic.in/exemplar/labmanuals.html>

2. Make any Project (based on LPP ch-12th NCERT) from the given :

<http://www.ncert.nic.in/exemplar/labmanuals.html>

3. DO FOLLOWING Questions (not MCQ) IN SEPARATE HOLIDAY HOMEWORK NOTE BOOK

Note : MCQs is only for Your Practice as MCQs comes in CBSE EXAMS of 109marks

Ch 1 Relations and Functions

1. If $n(A) = a$ and $n(B) = b$. Then find the following
 - a) number of elements in $A \times B$
 - b) number of subsets in $A \times B$
 - c) number of relations from A to B
 - d) number of functions $f : A \rightarrow B$
 - e) number of one-one functions
 - f) number of bijective functions
2. If $n(A) = a$ and $n(B) = b$. Then find the following conditions between 'a' and 'b'
 - a) So that function may be one-one
 - b) So that function may be onto
 - c) So that function may be bijective
3. If $n(A) = a$, then find the number of binary operations from A to A.
4. If $n(A) = a$, and $R: A \rightarrow A$, then find the number of reflexive relations.
5. Set A has 3 elements and the set B has 4 elements. Then find the number of injective mappings that can be defined from A to B.
6. For real numbers x and y, a relation R is defined as $x R y$ iff $x - y + \sqrt{2}$ is an irrational number. Write whether R is reflexive, symmetric or transitive.
7. For real numbers x and y, a relation R is defined as $x R y$ iff $x + y + \sqrt{2}$ is an irrational number. Write whether R is reflexive, symmetric or transitive.
8. Let a relation R on \mathbf{R} , defined as $R = \{(a, b) : 1 + ab > 0; a, b \in \mathbf{R}\}$. Write whether R is reflexive, symmetric or transitive.
9. If $A = \{a, b, c, d\}$ and the function $f = \{(a, b), (b, d), (c, a), (d, c)\}$, write f^{-1} .
10. If the mapping f and g are given by $f = \{(1, 2), (3, 5), (4, 1)\}$ and $g = \{(2, 3), (5, 1), (1, 3)\}$, Write $f \circ g$.
11. Consider the set $A = \{1, 2, 3\}$ and R be the smallest equivalence relation on A, then $R =$ _____.
12. Consider the set $A = \{1, 2, 3\}$ and the relation $R = \{(1, 2), (1, 3)\}$. R is a transitive relation.(T/F)
13. Let A be a finite set. Then, each injective function from A into itself is not

Surjective.(T/F)

14. For sets A, B and C, let $f : A \rightarrow B$, $g : B \rightarrow C$ be functions such that $g \circ f$ is one one function. Then both f and g are one one functions.
15. For sets A, B and C, let $f : A \rightarrow B$, $g : B \rightarrow C$ be functions such that $g \circ f$ is one one function. Then f must be a one one function, g may or may not be a one one functions.
16. For sets A, B and C, let $f : A \rightarrow B$, $g : B \rightarrow C$ be functions such that $g \circ f$ is onto function.
Then both f and g are onto functions.
17. For sets A, B and C, let $f : A \rightarrow B$, $g : B \rightarrow C$ be functions such that $g \circ f$ is onto function.
Then g must be a onto function, f may or may not be a onto functions.
18. For sets A, B and C, let $f : A \rightarrow B$, $g : B \rightarrow C$ be functions such that both f and g are one one functions. Then $g \circ f$ will also be a one one function.
19. For sets A, B and C, let $f : A \rightarrow B$, $g : B \rightarrow C$ be functions such that both f and g are onto functions. Then $g \circ f$ will also be a onto function.
20. Let $F: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x)=3x-4$. Then $f^{-1}(x)$ is given by
(a) $\frac{x+4}{3}$ (b) $\frac{x}{3}-4$ (c) $3x+4$ (d) None of these
21. If the set A contains 5 elements and the set B contains 6 elements, then the number of one – one and onto mappings from A to B is.
(a) 720 (b) 120 (c) 0 (d) none of these
22. Let $f: \mathbb{R} - \left\{ \frac{3}{5} \right\} \rightarrow \mathbb{R}$ be defined by $f(x) = \frac{3x+2}{5x-3}$. Then.
(a) $f^{-1}(x) = f(x)$ (b) $f^{-1}(x) = -f(x)$ (c) $(f \circ f)x = -x$ (d) $f^{-1}(x) = \frac{1}{19}f(x)$
23. Let $A = \{1, 2, 3, \dots, n\}$ and $B = \{a, b\}$. Then the number of surjections from A into B is
(a) ${}^n P_2$ (b) $2^n - 2$ (c) $2^n - 1$ (d) none of these
24. The maximum number of equivalence relations on set $A = \{1, 2, 3\}$ are
(a) 1 (b) 2 (c) 3 (d) 5

25. If a relation R on the set $\{1, 2, 3\}$ be defined by $R = \{(1, 2)\}$, then R is
 (a) Reflexive (b) Transitive (c) Symmetric (d) none of these
26. Let $f: A \rightarrow B$ and $g: B \rightarrow A$ be the bijective functions. the $(g \circ f)^{-1}$ is
 (a) $f^{-1} \circ g^{-1}$ (b) $f \circ g$ (c) $g^{-1} \circ f^{-1}$ (d) $g \circ f$
27. Let $f, g: \mathbb{R} \rightarrow \mathbb{R}$ be two function defined as $f(x) = |x| + x$ and $g(x) = |x| - x$ for all $x \in \mathbb{R}$. Then $f \circ g$ is
 (a) $0, x \geq 0; 4x, x < 0$ (b) $0, x \leq 0; -4x, x > 0$ (c) $0, x < 0; -4x \geq 0$
 (d) None of these
28. If $f: A \rightarrow B, g: B \rightarrow C$ are both one-one then $g \circ f: A \rightarrow C$ is
 (a) onto (b) one-one and onto (c) one-one (d) neither one-one nor onto.
29. The relation R on \mathbb{N} the set of natural number defined by
 $R = \{(x, y): x, y \in \mathbb{N}, x + y = 10\}$ is
 (a) Reflexive (b) Transitive (c) Not symmetric (d) None of these
30. $f: \mathbb{R} \rightarrow \mathbb{R}$ given by $f(x) = x + \sqrt{x^2}$ is
 (a) injective (b) surjective (c) bijective (d) none of these
31. The following relation $R = \{(x, y): x \text{ is wife of } y\}$ is
 a) Transitive (b) Reflexive (c) Neither Transitive nor Reflexive (d) none of these
32. Let \mathbb{N} be the set of natural numbers and the function $f: \mathbb{N} \rightarrow \mathbb{N}$ be defined by
 $f(n) = 2n + 3, \forall n \in \mathbb{N}$, then f is
 (a) injective (b) surjective (c) bijective (d) none of these
33. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 3x - 4$, then $f^{-1}(x)$ is given by
 (a) $\frac{x+4}{3}$ (b) $\frac{x}{3} - 4$ (c) $3x + 4$ (d) none of these

34. Let $f: [2, \alpha) \rightarrow R$ be the function defined by $f(x) = x^2 - 4x + 5$, then the range of f is
- (a) R (b) $[1, \alpha)$ (c) $[4, \alpha)$ (d) $[5, \alpha)$
35. Let $f: R \rightarrow R$ be defined by $f(x) = \begin{cases} 2x; & x > 3 \\ x^2; & 1 < x \leq 3 \\ 3x; & x \leq 1 \end{cases}$ then $f(-1) + f(2) + f(4)$ is
- (a) 9 (b) 14 (c) 5 (d) None of these
36. Let $f: R \rightarrow R$ be defined by $f(x) = \frac{1}{x}$, $\forall x \in R$. Then f is
- (a) one-one (b) onto (c) bijective (d) f is not defined

State true or False

37. Let A be finite set. Then, each injective function A into itself is not surjective.
38. For sets A, B and C , let $f: A \rightarrow B$, $g: B \rightarrow C$ be function such that $g \circ f$ is injective. Then both f and g are injective functions.
39. Every relation which is symmetric and transitive is also reflexive.
40. The composition of a function is commutative.
41. Every function is invertible.

Fill in the blanks

42. Consider the set $A = \{1, 2, 3\}$ and R be the smallest equivalence relation on A , then $R = \dots\dots\dots$
43. The domain of the function $f: R \rightarrow R$ be defined by $f(x) = \sqrt{x^2 - 3x + 2}$ is $\dots\dots\dots$
44. Consider the set A containing n elements. Then, the total number of injective functions from A onto itself is $\dots\dots\dots$
45. If $f(x) = (4 - (x - 7)^3)$, then $f^{-1}(x) = \dots\dots\dots$
46. $f: R \rightarrow R$ be defined by $f(x) = \frac{x}{\sqrt{1+x^2}}$. Then $(f \circ f \circ f)(x) = \dots\dots\dots$
47. Let the relation R be defined in N by aRb if $2a + 3b = 30$, then $R = \dots\dots\dots$

BIOLOGY

1) Search a topic for board investigatory project and prepare the synopsis.

2) Assignment: (Value Based Questions)

Q1. A researcher attempts making apomicts of hybrid seeds.

- What are the advantages of this attempt?
- How does it occur naturally in mango?
- How do you think this experiment will help the farmer?

Q2. The application for admission of a school student was rejected because the mother was HIV positive. Justify the decision of the school giving relevant reasons.

Q3. Mrs and Mr Gupta want to know the sex of their unborn child. He doctor refused to comply to this request.

- Justify the doctor's decision.
- Explain sex determination in man. .

Q4. A lady died due to complication in pregnancy in a hospital where MTP was not legalized.

- Do you think the decision of the hospital was correct?
- What are the situations where MTP can be advised?

Q5. According to a survey, at least 10% of Indian couples suffer from infertility and we have so many orphaned and destitute children, who would probably not survive till maturity, unless taken care of. A counselor advised an infertile couple to adopt a child.

- Why did the counselor give such an advice?
- List any two methods to treat infertility.

Q6. Some young mothers hesitate to breast their children. Is it biologically and ethically correct on their part? What is the significance of mother's milk?

Q7. Due to increased health facilities and better living conditions human population is growing at an exponential rate.

- Is it morally correct for one species to grow at this rate? Justify your answer.
- Describe one natural method and one irreversible le method of contraception.

Q8. People suffering from hepatitis B of HIV are advised to use a contraceptive method to prevent STD.

- Name the method.
- List the symptoms of STD
- What is the human value from using this method?

Q9. What is the special feature of sporopollenin in a pollen grain? What life skill can you learn from this?

- Prepare the chapter- **Strategies of enhancement of food resources** and explain in classroom after summer vacations.

CHEMISTRY

- Examples, Intext questions and exercise questions of **Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers and Biomolecules.**
- Solve NCERT Exemplar questions of **Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers and Biomolecules.**
- Synopsis of investigatory project is to be prepared.

Note: In synopsis aim, material required and detailed procedure is to be written. Students need to prepare synopsis using A-4 size white sheets without lines and all the sheets are to be attached in a file.

PHYSICS

Assignment

ELECTROSTATICS

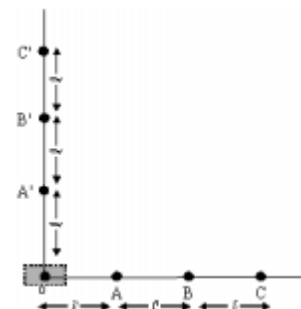
- Q1. Two point charges q_1 and q_2 are placed close to each other. What is the nature of the force between them when: (i) $q_1q_2 < 0$ and (ii) $q_1q_2 > 0$?
- Q2. Name the quantity with unit J/C. Is it a scalar or vector quantity?
- Q3. An electric dipole of dipole moment 2×10^{-6} C m is enclosed by a closed surface. What is the flux passing out of the surface?
- Q4. What is the angle between the directions of electric field at any (i) axial point and (ii) equatorial point due to an electric dipole?
- Q5. Two point charges placed at a distance r in air exert a force F on each other. At what distance will these charges experience the same force F in a medium of dielectric constant K ?
- Q6. Consider a dipole of length $2a$. What is the magnitude and direction of electric field at the mid-point of the length of the dipole
- Q7. Two charges $+10\mu\text{C}$ and $-20\mu\text{C}$ are placed 15 cm apart. At what point on the line joining the two charges is the electric potential zero? 2

- Q8. The following data was obtained for the dependence of the magnitude of electric field, with distance, from a reference point O, within the charge distribution in the shaded region. 2

Field points	A	B	A'	B'
Magnitude of field	E	E/8	E/2	E/16

Identify the charge distribution and justify your answer.

If the potential due to this charge distribution has a value V at the point A, what is its value at the point B and C.



- Q9. Derive expression for electric field at a point on the equatorial line of dipole. 3
- Q10. Using Gauss Theorem, show mathematically that for a point outside a shell, the field due to a uniformly charged thin shell is the same as if the entire charge of the shell is concentrated at the centre. Why do you expect electric field inside the shell to be zero according to this theorem? 3
- Q11. An electric dipole of dipole moment p is placed in a uniform electric field. Write the expression for the torque experienced by the dipole. Identify two pairs of perpendicular vectors in the expression. Show diagrammatically the orientation of the dipole in the field for which the torque is (i) Maximum (ii) Half the maximum value (iii) Zero. 3
- Q12. Derive expression for energy stored in parallel plate capacitor. Net capacitance of three identical capacitors in series is $1\mu\text{F}$. What will be their net capacitance if connected in parallel? Find the ratio of energy stored in the two configurations if they are both connected to the same source.

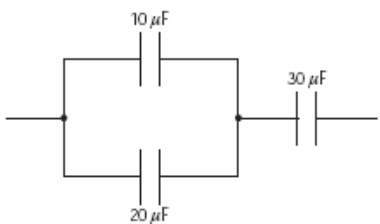
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NUMERICALS

LEVEL I

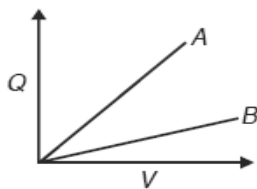
- Q1. What is the charge acquired by a body when 1 million electrons are transferred to it?
- Q2. An attractive force of 5N is acting between two charges of $+2.0\mu\text{C}$ & $-2.0\mu\text{C}$ placed at some distance. If the charges are mutually touched and placed again at the same distance, what will be the new force between them?
- Q3. A charge of $+3.0 \times 10^{-6}\text{C}$ is 0.25 m away from a charge of $-6.0 \times 10^{-6}\text{C}$.
a. What is the force on the $3.0 \times 10^{-6}\text{C}$ charge?
b. What is the force on the $-6.0 \times 10^{-6}\text{C}$ charge?
- Q4. An electric dipole consist of a positive and a negative charge of $4\mu\text{C}$ each placed at a distance of 5mm. Calculate dipole moment.

- Q5. Three capacitors of capacitances $2\mu\text{F}$, $3\mu\text{F}$ and $4\mu\text{F}$ are connected in parallel. What is the equivalent capacitance of the combination? Determine charge on each capacitor, if the combination is connected to 100V supply?
- Q6. An electric dipole with dipole moment $4 \times 10^{-9} \text{C}\cdot\text{m}$ is aligned at 30° with direction of electric field of magnitude $5 \times 10^4 \text{N/C}$. Calculate the magnitude of the torque acting on the dipole.
- A point charge of $2\mu\text{C}$ is at the centre of cubic Gaussian surface 9.0 cm in edge. What is the net electric flux through the surface?
- Q7. What is the amount of work done in moving a 200nC charge between two points 5 cm apart on an equipotential surface?
- Q8. How much work must be done to charge a $24\mu\text{F}$ capacitor, when the potential difference between the plates is 500 V?
- Q9. What is the equivalent capacity of the network given below?



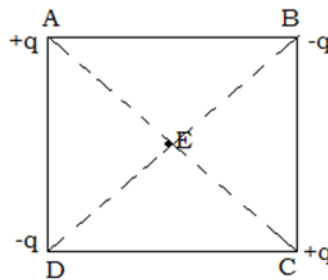
LEVEL II

- Q1. What is the work done in moving a charge of $100\mu\text{C}$ through a distance of 1cm along the equatorial line of dipole?
- Q2. The given graph shows that variation of charge q versus potential difference V for two capacitors C_1 and C_2 . The two capacitors have same plate separation but the plate area of C_2 is double than that of C_1 . Which of the lines in the graph correspond to C_1 and C_2 and why?

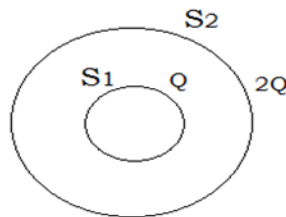


- Q3. Two point charges $5\mu\text{C}$ and $-4\mu\text{C}$ are separated by a distance of 1 m in air. At what point on the line joining the charges is the electric potential zero?

- Q4. Two charges $+5\mu\text{C}$ and $+20\mu\text{C}$ are placed 15 cm apart. At what point on the line joining the two charges is the electric field zero?
- Q5. Two charges $+16\mu\text{C}$ and μC are placed 8 cm apart. At what point on the line joining the two charges is the electric field zero?
- Q6. A 600 pF capacitor is charged by a 200 V supply. It is then disconnected and from the supply and is connected to another uncharged 600 pF capacitor. How much electrostatic energy is lost in the process.
- Q7. Keeping the voltage of the charging source constant, what will be the percentage change in the energy stored in a parallel plate capacitor if the separation between its plates were to be decreased by 10%.
- Q8. Four charges are placed at the vertices of a square of side d as shown in the figure. (i) Find the work done to put together this arrangement. (ii) A charge q_0 is brought to the center E of the square, the four charges being held fixed at its corners. How much extra work is needed to do this?



- Q9. If S_1 and S_2 are two hollow spheres enclosing charges Q and $2Q$ respectively as shown in the figure



- (i) What is the ratio of the electric flux through S_1 and S_2 ?
- (ii) How will the flux through the sphere S_1 change, if a medium of dielectric constant 5 is filled in the space inside S_1 .

10. A charge of $24\mu\text{C}$ is given to a hollow sphere of radius 0.2m . Find the potential

- (i) at the surface of the sphere, and
- (ii) at a distance of 0.1 m from the centre of the sphere.
- (iii) at the centre.

COMPUTER SCIENCE

Instructions

- 1. Platform: PYTHON 3**
- 2. Submit Softcopy of Python programs.**
- 3. Write Question Answers in the notebook**

Q1. Define Control Structures. Explain its types. Write a python program on each of the control structures.

Q2. What are Data Types? What are Python's built-in core datatypes.

Q3. Write a program that reads a line and prints its statistics like:

Number of uppercase letters :
Number of lowercase letters :
Number of alphabets :
Number of digits :

Q4. Define List. Write all the list methods with the help of programs.

Q5. Differentiate Between Mutable and Immutable Data types.

Q6. Distinguish String, Tuple, List, Dictionary with respect to its Mutability and Immutability.

Q7. Define Library, Package, Module and Function. Write steps how to create user defined packages, modules and functions and implement it practically.

Q8. Write a python program to create a text file ,read first 20 bytes and then read some more bytes from the last position.

Q9. Define Functions. Explain its types.

Q10. Consider the tables given below and write queries for the following:

TABLE : SALESMAN

salesman_id	name	city	commission
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5007	Paul Adam	Rome	0.13
5003	Lauson Hen	San Jose	0.12

TABLE : CUSTOMER

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3009	Geoff Cameron	Berlin	100	5003

1. Write SQL query to find the names of all customers along with the salesman who works for them.
2. Query to display all those orders by the customers not located in the same cities where their salesman live.
3. Query to display all the members of table Salesman.
4. Query to display all the members of table customer
5. To display all those cities of CUSTOMER whose grade ≥ 200 .
6. To display all the records of SALESMAN whose name starts with 'P'.

INFORMATIC PRACTICES

Prepare chapters:

Ch – 1: Working with NumPy

Ch – 5: Introduction of software engineering

Ch-6: Agile methods and practical aspects of software engineering.

Ch-7: MySQL SQL revision tour.

Ch-8: More on SQL

Ch-11: Society, Law and Ethics

ASSIGNMENT

1. What is software engineering?
2. What is Incremental delivery model?
3. How does software engineering contributes towards the cost, scalability and quality of software?
4. What are software process activities?
5. What is the significance of software evaluation phase?
6. What is software verification and validation?
7. What is Waterfall model? Explain all the phases of waterfall model.
8. Why does traditional waterfall model not suit the real world large software systems?
9. What is Pair programming?
10. What is a use-case diagram? How is it useful?
11. What is Agile Manifesto? How is use-case s useful?
12. What are the advantages and disadvantages of component based model?
13. What is spiral development model? Explain n detail.
14. What is the difference between a commit and a Push request on a version control system?
15. What is Agile software development?
16. What s the role of 'Software Specification ' activity?
17. What is Online fraud? Give some example.
18. What is digital property? What are the threats to digital properties?
19. Consider the following tables STOCK and DEALERS and answer (b1) and (b2) parts of this question:

Table: STOCK

ItemNo	Item	Dcode	Qty	UnitPrice	StockDate
5005	Ball Pen 0.5	102	100	16	31-Mar-10
5003	Ball Pen 0.25	102	150	20	01-Jan-10
5002	Gel Pen Premium	101	125	14	14-Feb-10
5006	Gel Pen Classic	101	200	22	01-Jan-09
5001	Eraser Small	102	210	5	19-Mar-09
5004	Eraser Big	102	60	10	12-Dec-09
5009	Sharpener Classic	103	160	8	23-Jan-09

Table: DEALERS

Dcode	Dname
101	Reliable Stationers
103	Classic Plastics
102	Clear Deals

Write SQL commands for the following statements:

- To display details of all Items in the Stock table in ascending order of StockDate
- To display ItemNo and Item name of those items from Stock table whose UnitPrice is more than Rupees 10.
- To display the details of those items whose dealer code (Dcode) is 102 or Quantity in Stock (Qty) is more than 100 from the table Stock.
- Give the output of the following SQL queries:
- SELECT COUNT(DISTINCT Dcode) FROM Stock;
- SELECT Qty*UnitPrice FROM Stock WHERE ItemNo=5006;
- SELECT Item, Dname FROM Stock S, Dealers D WHERE S.Dcode=D.Dcode AND ItemNo=5004;.

ECONOMICS

MACROECONOMICS.

- Prepare a report suggesting that how should our government address the current situation of economy due to COVID pandemic. (YOU HAVE TO DISCUSS A POSSIBLE GOVERNMENT RECEIPTS AND EXPENDITURES IN THIS SITUATION.)
- Why the prices of other goods keeps on increasing these days. When there is only increase in the demand of essential goods?

INDIAN ECONOMY

- How would COVID -19 would affect the global economy? Prepare a detailed report.
- Despite of being a superpower and medically superior country, USA is not able to control the pandemic.
- COVID-19 would reshape the education in INDIA. Do you agree? Give reason to support your views.
- Prepare a detailed report on the benefits of British government for Indian economy.
- Prepare a project from the following chapters.
 1. Poverty
 2. Demonetization
 3. Unemployment
 4. Infrastructure
 5. Sustainable development
 6. New economic policy
 7. COVID-19 -Effect on world's economy.
 8. Expenditure on Defense or Health- your preference

DISTRIBUTION OF TOPICS ARE -

CLASS XII B

Roll no- 1 to 4 (topic 1). 5 to 10 (topic 2) 11 to 14 (topic 3) 15 to 20 (topic 4) 21 to 24(topic 5) 25 to 30(topic 6) 31 & 32 (topic 7,8)

FOR CLASS XII C – follow the above pattern for class XII B

ACCOUNTS

1. Prepare project of Accountancy as discussed with you.
 - (a) Comprehensive project :- Take a virtual sole proprietor business and their transaction carried out during a particular month/ year. With the given information Prepare the following.
 - (i) Journal
 - (ii) Ledger
 - (iii) Trial Balance
 - (iv) Trading and Profit & Loss Account
 - (v) Balance Sheet.
 - (vi) Graphical Representation of their financial performance (i.e Profit and Loss)
 - (vii) Graphical Representation of their Financial Position (i.e Assets and Liabilities)
 - (b) Specific Project -1 and 2. :-
 - (i) Take Vertical Balance Sheet of any one company and prepare cash flow statement .
 - (ii) Take Vertical Balance Sheet of any company and prepare segmenting for a financial year.
 - (iii) Take Vertical Balance sheet of any company and calculate the following ratio and comment over this ratio and financial performance of the company. (Current ratio, Liquid ratio, Debt equity ratio, inventory turnover ratio, Trade receivable ratio, Gross profit ratio, Net profit ratio, Return on Investment.)
 - (iv) Take vertical Balance sheet and Profit and loss Account of a company and prepare comparative and common size statement and comment over it.

You have to prepare any two specific project of your choice from section (b) and project from section (a) is compulsory for all.

BUSINESS STUDIES

Prepare a Project on any one of the following topics given below :-

- (i) Principles of Management
- (ii) Business Environment
- (iii) Stock Exchange
- (iv) Marketing Management

PRINCIPLES OF MANAGEMENT

The students are required to visit any one of the following: 1. A departmental store. 2. An Industrial unit. 3. A fast food outlet. 4. Any other organisation approved by the teacher. They are required to observe the application of the general Principles of management advocated by Fayol. Fayol's principles 1.Division of work. 2. Unity of command. 3. Unity of direction. 4. Scalar chain 5. Espirit de corps 6.Fair remuneration to all. 7. Order. 8. Equity. 9. Discipline 10. Subordination of individual interest to general interest. 11. Initiative. 12. Centralisation and decentralisation. 13. Stability of tenure.

BUSINESS ENVIRONMENT

1. Changes witnessed over the last few years on mode of packaging and its economic impact.

- a) The changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates, etc. Reasons for above changes.
- b) Milk being supplied in glass bottles, later in plastic bags and now in tetra-pack and through vending machines.
- c) Plastic furniture [doors and stools] gaining preference over wooden furniture.
- d) The origin of cardboard and the various stages of changes and growth.
- e) Brown paper bags packing to recycled paper bags to plastic bags and cloth bags.
- f) Re use of packaging [bottles, jars and tins] to attract customers for their products.
- g) The concept of pyramid packaging for milk.
- h) Cost being borne by the consumer/manufacturer.
- i) Packaging used as means of advertisements.

STOCK EXCHANGE

The students are expected to: a) Develop a brief report on History of Stock Exchanges in India. (your country) b) Prepare a list of at least 25 companies listed on a Stock Exchange. c) To make an imaginary portfolio totalling a sum of Rs. 50,000 equally in any of the 5 companies of their choice listed above over a period of twenty working days.

The students may be required to report the prices of the stocks on daily basis and present it diagrammatically on the graph paper.

λ They will understand the weekly holidays and the holidays under the Negotiable Instruments Act. They will also come across with terms like closing prices, opening prices, etc.

λ During this period of recording students are supposed to distinctively record the daily and starting and closing prices of the week other days under the negotiable instrument act so that they acquire knowledge about closing and opening prices.

λ The students may conclude by identifying the causes in the fluctuations of prices. Normally it would be related to the front page news of the a business journal, for example,

λ Change of seasons. λ Festivals. λ Spread of epidemic. λ Strikes and accidents λ Natural and human disasters. λ Political environment. λ Lack of faith in the government policies. λ Impact of changes in government policies for specific industry. λ International events. λ Contract and treaties at the international scene. λ Relations with the neighbouring countries. λ Crisis in developed countries, etc.

The students are expected to find the value of their investments and accordingly rearrange their portfolio. The project work should cover the following aspects; 1. Graphical presentation of the share prices of different companies on different dates. 2. Change in market value of shares due to change of seasons, festivals, natural and human disasters. 3. Change in market value of shares due to change in political environment/ policies of various countries/crisis in developed countries or any other reasons 4. Identify the top ten companies out of the 25 selected on the basis of their market value of shares. It does not matter if they have made profits or losses.

MARKETING MANAGEMENT

1. Adhesives 2. Air conditioners 3. Baby diapers 4. Bathing Soap 5. Bathroom cleaner 6. Bike 7. Blanket 8. Body Spray 9. Bread 10. Breakfast cereal 11. Butter 12. Camera 13. Car 14. Cheese spreads 15. Chocolate 16. Coffee 17. Cosmetology product 18. Crayons 19. Crockery 20. Cutlery 21. Cycle 22. DTH 23. Eraser 24. e-wash 25. Fairness cream 26. Fans 27. Fruit candy 28. Furniture 29. Hair Dye 30. Hair Oil 31. Infant dress 32. Inverter 33. Jams 34. Jeans 35. Jewellery 36. Kurti 37. Ladies bag 38. Ladies footwear 39. Learning Toys 40. Lipstick 41. Microwave oven 42. Mixers 43. Mobile 44. Moisturizer 45. Music player 46. Nail polish 47. Newspaper 48. Noodles 49. Pen 50. Pen drive 51. Pencil 52. Pickles
2. The students are required to make a project on the identified product/service keeping in mind the following:
 1. Why have they selected this product/service?
 2. Find out '5' competitive brands that exist in the market.
 3. What permission and licences would be required to make the product?
 4. What are your competitors Unique Selling Proposition.[U.S.P.]?
 5. Does your product have any range give details?
 6. What is the name of your product?
 7. Enlist its features.
 8. Draw the 'Label' of your product.
 9. Draw a logo for your product.
 10. Draft a tag line.
 11. What is the selling price of your competitor's product?
 - (i) Selling price to consumer
 - (ii) Selling price to retailer
 - (iii) Selling price to wholesaler
 - What is the profit margin in percentage to the (i) manufacturer (ii) wholesaler (iii) Retailer
 12. How will your product be packaged?
 13. Which channel of distribution are you going to use? Give reasons for selection?
 14. Decisions related to warehousing, state reasons.
 15. What is going to be your selling price? (i) To consumer (ii) To retailer (iii) To wholesaler
 16. List 5 ways of promoting your product.
 17. Any schemes for (i) The wholesaler (ii) The retailer (iii) The consumer
 18. What is going to be your 'U.S.P'?

19. What means of transport you will use and why?
20. Draft a social message for your label.
21. What cost effective techniques will you follow for your product.
22. What cost effective techniques will you follow for your promotion plan. At this stage the students will realise the importance of the concept of marketing mix and the necessary decision regarding the four P's of marketing. λ Product λ Place λ Price λ Promotion

On the basis of the work done by the students the project report should include the following:

1. Type of product /service identified and the (consumer/industries) process involve there in.
2. Brand name and the product.
3. Range of the product.
4. Identification mark or logo.
5. Tagline.
6. Labeling and packaging.
7. Price of the product and basis of price fixation.
8. Selected channels of distribution and reasons thereof.
9. Decisions related to transportation and warehousing. State reasons.
10. Promotional techniques used and starting reasons for deciding the particular technique.
11. Grading and standardization.

Presentation and Submission of Project Report

At the end of the stipulated term, each student will prepare and submit his/her project report. Following essentials are required to be fulfilled for its preparation and submission.

1. The total length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project should be presented in a neat folder.
4. The project report should be developed in the following sequence-
 - λ Cover page should include the title of the Project, student information, school and year.
 - λ List of contents.
 - λ Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped).
 - λ Introduction.
 - λ Topic with suitable heading.
 - λ Planning and activities done during the project, if any.
 - λ Observations and findings of the visit.
 - λ Conclusions (summarized suggestions or findings, future scope of study).
 - λ Photographs (if any).
 - λ Appendix
 - λ Teacher's observation.
 - λ Signatures of the teachers.
- λ At the completion of the evaluation of the project, it should be punched in the centre so that the report may not be reused but is available for reference only.
- λ The project will be returned after evaluation.

SOCIOLOGY

Project Work:

Do the Project work on A-4 SIZE SHEETS ONLY

(1) Prepare a project file (25, A-4 sheets) on the assigned topic (enclosed in the list).

(2) Carry out the research in a detailed manner using 30 interviews, questionnaire, direct or indirect observation. The file should contain all the necessary sub-topics including analysis. Click pictures wherever necessary and show bar diagrams for analysis of responses.

General Instructions for project:-

- Cover page
- Index
- Acknowledgment
- Introduction (explaining the topic well)
- Statement of Purpose (what made one pick up a certain topic)
- Research Question or Hypothesis
- Methodology (definition of the method chosen, why the method is appropriate for the topic choose, advantages and disadvantages of the method)
- Presentation of secondary evidence such as news paper articles, magazine, articles, and so on.

ROLL NO.	NAME OF STUDENTS	TOPICS FOR PRACTICAL PROJECT WORK
1	ANISHA YADAV	DRUG ADDICTION
2	ANJALI DAHIYA	ROLE OF MEDIA DURING COVID 19
3	ANU	IMPACT OF SOCIAL MEDIA ON SOCIETY
4	DIKSHA THAKUR	ANIMAL RIGHTS
5	DIVYA SHARMA	SOCIAL EFFECTS OF ADVERTISEMENT ON STUDENTS
6	FAHED AFZAL	FASHION AND TEENAGERS
7	ISHA RANA	CHILD ABUSE AND ITS EFFECT IN INDIAN SOCIETY
8	JHANKAR SHARMA	IMPACT OF COVID 19 ON EDUCATION
9	KANIKA	CLASS CONFLICTS AND INEQUALITY
10	KOMAL KHARB	CHALLENGES OF CULTURAL DIVERSITY
11	MANJEET	ORGANIC FARMING
12	MANSI	AGGRESSION IN CHILDREN
13	NEHA YADAV	COVID 19 AND RELIGION
14	NITESH DAHIYA	PARANTAL
15	NITESH DHIMAN	E- BUSINESS
16	NOOR SHARMA	IMPACT OF COVID 19 ON SOCIETY

ROLL NO.	NAME OF STUDENTS	TOPICS FOR PRACTICAL PROJECT WORK
17	PARAS SINGH	STYLE OF CHILD REARING IN FAMILIES OF PROFESSIONAL ATHLETES
18	PRIYANSH SHARMA	PERSONALITY DISPOSITIONS AND ACADEMIC ACHIEVEMENT
19	RACHIT GULIA	WASTE MANAGEMENT
20	RAHAT	COVID 19 AND GLOBAL POVERTY
21	RAJAT GAHLOT	DIGITAL LITERACY
22	RAKESH PASWAN	SPORTS AND PERSONALITY DEVELOPMENT
23	RITU RANA	DRUG ABUSE
24	SAHIL YADAV	CYBER BULLYING
25	SAKSHI TYAGI	CRIMES AGAINST CHILDREN
26	SIDHI GAUR	ONLINE TEACHING
27	SIMRAN TIWARI	HEALTHY LIFESTYLE
28	TWINKLE SHARMA	MEDIA AND MODERNIZATION
29	VINAY KUMAR	GENDER INEQUALITY
30	YASH SHARMA	CYBER SECURITY
31	YOGESH	SOCIAL DISTANCING

POLITICAL SCIENCE

NOTE: You all have to attempt the following homework according to prescribed guidelines and the work to be completed accordingly. Read the topics properly and do the assignment neatly. This homework will be a part of internal assessment. Submission dates will be released as soon as the school reopens. It will not only enable you to recapitulate what was taught but will also help you to connect to the various learning processes.

A. Political Science Project-

Prepare a project according to CBSE guidelines.

Assigned topics according to Roll No.s are as follows:

Rollno.	Topic	
	1. Cuban Missile	(Roll No 1&22)
	2. Partition- Theory behind it and its legacy	(Roll No 2&23)
	3. State Reorganisation- Do we still require it?	
	4. Election Commission- its changing role and importance	
	5. SAARC	(Roll No. 5&24)
	6. Change in India's Foreign Policy	(Roll No. 6&25)
	7. India's relation with its neighbours- any one country can be studied	
	8. Emergency- Reasons and Consequences	
	9. Popular movements- Any one movement can be used from chapter 6 and a relation drawn with the any current protest on that issue	(Roll No. 9&26)
	10. Regional Aspiration – Separatist Movement- Kashmir	
	11. Role of Regional Parties- A detailed study of any one	
	12. Naxalite Movement- How can government address the problem	(Roll No. 12 &27)
	13. Politics of Reservation in India- Constitution- SC and ST, Mandal- OBC, NDA- EWS	
	14. Coalition Politics- Study of UPA and NDA	(Roll No. 14 &28)
	15. Cold war- Is the world heading to Cold war 2- USA and China	
	16. China – The next Super Power	(Roll No. 16&29)
	17. Post Soviet Republics- Life after Disintegration	
	18. European Union	(Roll No. 18 &30)
	19. UN and its agencies	
	20. Environment- Sustainable development- Need of the hour	(Roll No. 20 &31)
	21. Globalisation – Eco., Pol., and Cultural Impact on Third World	(Roll No. 21 &32)

General Instructions:

Prepare a project file with following guidelines:

1. The total length of the project report should be 25-30 written pages of foolscap size (A-4 size) sheet.
2. The project report should be handwritten and credit will be awarded to original drawings, illustrations and creative use of eco-friendly material. It should be well researched based on facts and figures, newspaper clippings and pictures.
3. The project report should be presented in a neatly bound simple folder.
4. The project report should be developed and presented in this order:
 - a) Cover page showing project title, student information, school and year.
 - b) List of contents with page numbers.
 - c) Certificate page
 - d) Acknowledgements (acknowledging the institution, offices and libraries visited and persons who have helped).
 - e) Chapters with relevant headings.
 - f) Summary and conclusions based on findings.
 - g) Bibliography: should have the Title, author, publisher and if a website the name of the website with the specific website link which has been used.
 - h) Project Evaluation Report.

B. Read and revise the chapters taught in the class.

D. Read the newspaper daily especially the editorial part.

C. Answer the questions of the given worksheet.

Home Assignment(Summer Vacations-2020-21)

General Instructions

- (1) All the questions to be answered in your Class Notebook.
- (2) Answer the questions as per the weightage of the questions.

A. Answer the Following Questions

Knowledge Based Questions

- | | |
|--|---|
| Q1. Write a short note on NATO. | 2 |
| Q2. Name any two agreements signed by the two superpowers with respect to arms control Strategy. | 2 |
| Q3. Name the founder leaders of NAM. | 2 |
| Q4. When was then Berlin wall built? What does it symbolize? | 2 |

Understanding Based

- | | |
|--|---|
| Q5. Why did the super power need allies? | 4 |
| Q6. How can you say that NAM is neither isolationism nor neutrality? Explain. | 4 |
| Q7. Who was Boris Yeltsin? How was democracy and capitalism installed in Soviet Union? | 4 |
| Q8. What is termed as 'triangular conflict' in Nepal's struggle for democracy? | 4 |

Application Based

- Q9. 'The First Gulf War revealed vast technological gap between the US military and that of other States'. Comment.

HISTORY

- ❖ Make a project on any one of the following topics in a beautifully covered files and power point presentation on the same chosen topic :
 - Harappan Civilisation
 - Bhakti sufi tradition
 - An imperial capital : Vijayanagar
 - Thinkers, Beliefs and Buildings : Cultural developments
 - Through the eyes of travelers : Perception of the society
 - Mahatma Gandhi and the national movement

Must begin the project by including the following parameters (more than 25 pages) :

- Cover page includes – project title, student information, school and academic year .
- List of content with page number.
- Certificate page
- Acknowledgement (giving credit to those who helped you in this project)
- Project overview (brief idea about the project)
- Content sheet (10 to 12 with relevant photographs OR maps)
- Conclusion
- Bibliography (the book you read and the website you visited for the project)

Please note that the project carries 20 marks and will be assessed on the following rubrics:

- Relevance and accuracy of the content shared in the project: 5 marks
- Creativity of Expression: 5 marks
- Presentation of project with the help of diagrams, pictures and maps: 5 marks
- Organization of Facts: 5 marks
- ❖ **Prepare complete syllabus for Periodic Assessment I .**

FOOD AND NUTRITION

- Prepare a report on different pandemics in last 2 decades. Also record the vaccinations developed for them and the time taken for that.
- How would you cure a patient of the following by your dietary techniques?
 - I. Hypertension
 - II. Diabetes
 - III. Jaundice
 - IV. Typhoid
 - V. Tuberculosis
 - VI. Bulimia.
- List some Indian food stuffs which have the potential to overcome COVID-19 and explain how?
- Collect at least 30 different food labels and prepare a pictorial report by commenting and pasting their nutritive value chart. (Use a project file for this.)

Creative work

- Prepare your own recipe book by adding following categories of recipes.
 - I. Appetizers /soups (at least 3)
 - II. Starters (at least 3)
 - III. Gluten free breakfast (at least 3 recipes)
 - IV. Main course (at least 3)
 - V. Sweets (at least 3)
 - VI. Beverages (at least 3)

Note:

1. You have to be very unique for your recipes, should not be copied from anywhere.
2. Recipe book should be attractive, properly designed and self-made.
3. **No marks will be given if it is found copied. BEST THREE WILL BE AWARDED.**

- **Prepare a PPT on the following methods of cooking by trying all the methods by you.**
 - I. Blanching
 - II. Stewing
 - III. Pan frying
 - IV. Deep frying
 - V. Poaching
 - VI. Pressure cooking
 - VII. Deep frying
 - VIII. Steaming
 - IX. Grilling

PHYSICAL EDUCATION

This Homework has two parts

A: Project File

B: Assignment(Fair Notebook)

A Prepare a Project file of Physical Education (Class XII)

- The project should be of 30-40 pages (approx), preferably hand-written with pictures and coloured illustrations.

**** Project file shall include :**

- Modified AAHPER administration for all items.
- Conduct Barrow three-item Test on 10 students .
- Procedure for asanas, benefits and contraindication of any two asanas for lifestyle disease.
- Procedure for administering Senior Citizen test on 5 elderly family members.
- Any one game of your choice out of the list . Labelled diagram of field and equipment (Rules,terminologies and skills)
- List of the games
- Athletics
- Basket Ball
- Football
- Hockey
- Kho-kho
- Rifle Shooting
- Volley Bal

ASSIGNMENT

General Instructions :-

- *All questions are compulsory.*
- *Q1 to Q10 are Carrying 1 mark should be in approximately 20 to 30 words.*
- *Q11 to Q18 are Carrying 3 marks should be in approximately 80 to 90 words.*
- *Q19 to Q25 are Carrying 5 marks should be in approximately 150 to 200 words.*

1. What do you mean by seeding?
2. What do you mean consolation tournaments?
3. What do you mean by complex carbohydrate?
4. What do you mean by food intolerance?
5. What is Hypertension? How many types of Hypertension.
6. What is diabetes? How many types of diabetics?
7. What do you mean by ADHD?
8. What is disability?
9. What do you mean by motor development?
10. Explain about hunch back.
11. Draw a fixture of 25 teams with the help of knockout tournaments with full procedure.
12. Explain the food myths in detail any three.
13. Explain about macro minerals.
14. Explain about the three asana like vajraasana, bhuangasans, trikonasana for caring obesity.
15. Explain the types of disability.
16. What is motor development? Explain the types of motor development.
17. Explain the women athlete triad.
18. What is intramurals? Explain the objective of intramurals.
19. What do you mean by nutrients? Explain the macro & macro nutrients in brief.
20. What is disorder? Explain the types of disorder.
21. Explain the strategies to make physical activities assessable for CWSN.
22. Explain the common posture a deformities in brief.
23. Discuss about sports participation of women in India.
24. Explain any five factors affecting motor development in brief.
25. Explain Non-Nutritive components in brief.

