



Delhi Public School Gwalior

(Under the aegis of DPS Society, New Delhi)

Holiday Homework

Session 2020–21

Class-XI



Dear Children,

It's time for strengthening family bond, cherishing old memories and having a good time together during this Lockdown Period. Keeping this in mind, here is your Holiday Assignment through which you can keep your energies well directed and spend quality time with your Family. Don't forget to take good care of your health and hygiene and bring out a totally new concept of C.O.V.I.D. i.e. Create, Observe, Visualise, Initiate and Dream Big while working enthusiastically.

Here are few things which if you practice along with your Holiday Assignment, will help you stay connected to your roots:

- Listen to the Unspeakable: Start observing things around you meticulously and try to connect and relate them.
- Adopt/grow a plant: You can also plant a few seeds, Water them regularly.
- Try out as many new cuisines as you can: All foodies are going to love this point and be in complete agreement, rather than caring about calories and fats, vacations are a great time to throw caution to the wind and try out as many new cuisines as you like.
- Try out a new fitness regime: Exercise daily and keep yourself fit and healthy.
- Unravel the artist in you: Create anything of your interest. Learn a new song, play a new instrument or enact.
- Good manners is the key: Don't forget to Respect your parents, grandparents and all elders. Reduce the usage of Mobile Phone and TV time and increase the time you spend with your family, spend moments together and create memories.
- Save nature: Contribute to save our previous environment by minimizing the wastage of resources like water, fuel and electricity.

Wishing you an innovative Quarantine!

Class Educator

SUBJECT – ENGLISH

General Instructions:

1. Kindly submit the holiday homework in a handmade file or folder.
2. Assessment Criteria: creativity, neatness, content, grammar, spellings, overall presentation, completion of all the given questions and timely submission.
3. The written part should be neatly presented in your own handwriting specifically highlighting the following features
 - Cover Page – (Do mention your Full Name, Class and section)
 - Acknowledgement
4. Remember a well presented ‘Holiday Home Work’ fetches you marks and appreciation of your teachers and classmates.
5. Do all the given homework yourself, it is OK if it looks raw or unfinished, you are not a professional, and you are in process of learning. We , your teachers , will always appreciate your endeavours!

1. Choose a news story that has piqued your interest and write a report in not more than 150 –200 words. Give a suitable title to your Report and add evidences in form of newspaper cuttings.
2. Prepare posters on any plain sheet on the following topics: (Any two)
 - ★ Benefits of Yoga
 - ★ Disaster Management
 - ★ Say No to Plastics
 - ★ Women Empowerment
 - ★ Traffic Rules
3. Read the lesson “Discovering Tut....the saga continue” from Hornbill and make a collage on King Tut by finding details about him and his reign. Research on the Egyptian civilization – with particular reference to Tut’s Mummy and its discovery. Write about your research on any sheet.
4. You are Shruti / Saurabh, Secretary, Literary Association of Queen Victoria School, Nagpur. Write a notice giving details of the inauguration of the literary association activities in not more than 50 words.
5. **Read the passage given below :**

In a very short period of time the internet has had a profound impact on the way we live. Since the Internet was made operational in 1983, it has lowered both the costs of communication and the barriers to creative expression. It has challenged old business models and enabled new ones. It has provided access to information on a scale never before achievable. It succeeded because we designed it to be flexible and open. These two features have allowed it to accommodate innovation without massive changes to its infrastructure. An open, borderless and standardized platform means that barriers to entry are low, competition is high, interoperability is assured and innovation is rapid. The beauty of an open platform is that there are no gatekeepers. For centuries, access to and creation of information was controlled by the few. The internet has changed that --and is rapidly becoming the platform for everyone, by everyone. Of course, it still has a way to go. Today there are only about 2.3 billion internet users, representing roughly 30% of the world's population. Much of the information that they can access online is in English, but this is changing rapidly. The technological progress of the internet has also set social change in motion. As with other enabling inventions before it, from the telegraph to television, some will worry about the effects of broader access to information -

the printing press and the rise in literacy that it effected were, after all, long seen as destabilizing. Similar concerns about the internet are occasionally raised, but if we take a long view, I m confident that its benefits far outweigh the discomforts of learning to integrate it into our lives. The internet and the world wide web are what they are because literally millions of people have made it so. It is a grand collaboration. It would be foolish not to acknowledge that the openness of the internet has had a price. Security is an increasingly important issue and cannot be ignored. If there is an area of vital research and development for the internet, this is one of them. I am increasingly confident, however, that techniques and practices exist to make the internet safer and more secure while retaining its essentially open quality.

After working on the internet and its predecessors for over four decades, I'm more optimistic about its promise than I have ever been. We are all free to innovate on the net every day. The internet is a tool of the people, built by the people for the people and it must stay that way.

- (a) **On the basis of your reading of the above passage make notes on it using recognizable abbreviations (minimum four) wherever necessary. Use a format you consider appropriate. Supply a suitable title.**
- (b) **Write a summary of the passage in about 80 words.**

SUBJECT - PHYSICS

General Instructions

1. **Homework should be presented in good handwriting.**
2. **It is mandatory to submit the homework within given time limit.**
3. **Mention your name, class and section on the cover page.**
4. **Use available sheets to answer the questions.**

- Q1. What is the roe of Physics in your Daily life?
- Q2. Explain the four basic forces in nature. Mention its important properties. Arrange them in order of their increasing strengths.
- Q3. What are two principal thrusts in physics? Give suitable examples for each.
- Q4. Write the order of magnitude of the following measurements:
(i) 8 (ii) 49 (iii) 52 (iv) 999 (v) 1001 (vi) 753000
(vii) 0.05 (viii) 0.99 (ix) 25710000 (x) 0.00000521 (xi) 555 (xii) 0.135
- Q5. Deduce the dimensional formulae for the following physical quantities:
(i) Gravitational constant (ii) Power (iii) Young's modulus (iv) Coefficient of viscosity
(v) Surface tension (vi) Plank's constant (vii) Heat (viii) Universal gas constant
(ix) Boltzmann's constant (x) Mechanical equivalent of heat (xi) charge (xii) potential
(xiii) resistance (xiv) capacitance.
- Q6. If density p , acceleration due to gravity g and frequency f are the basic quantities, find the dimensions of force.
- Q7. Convert 1 joule into erg.

- Q8. The value G in CGS system is 6.67×10^{-8} dyne $\text{cm}^2 \text{g}^{-2}$. Calculate the value in SI units.
- Q9. Find the dimensions of a/b in the equation: $F = a\sqrt{x} + bt^2$, where F is force, x is distance and t is time.
- Q10. Find the dimensional of a×b in the relation: $P = (b-x^2)/at$; where p is power, x is the distance and t is time.
- Q11. Test the dimensional consistency of the following equation:
 (a) $v = u + at$ (b) $s = ut + \frac{1}{2} at^2$ (c) $v^2 - u^2 = 2as$.
- Q12. Consider a simple pendulum, having a bob attached to a string, that oscillates under the action of the force of gravity. Suppose that the period of oscillation of the simple pendulum depends on (i) mass m of the bob (ii) length l of the pendulum and (iii) acceleration due to gravity g at the place. Deduce the expression for its time period using method of dimension.
- Q13. The velocity 'v' of water waves depends on the wavelength 'λ', density of water 'ρ' and the acceleration due to gravity 'g'. Deduce by the method of dimensions the relationship between these quantities.
- Q14. The velocity of sound waves 'v' through a medium may be assumed to depend on :
 (i) the density of the medium 'd' and
 (ii) the modulus of elasticity 'E'.
 Deduce by the method of dimensions the formula for the velocity of sound. Take dimensions constant K=1.
- Q15. The frequency 'f' of vibration of a stretched string depends upon:
 (i) its length l, (ii) its mass per unit length 'm' and (iii) the tension T in the string.
 Obtain dimensionally an expression for frequency f.
- Q16. Mention the limitations of the method of dimensional analysis.
- Q17. What is meant by significant figure in a measured quantity? State the rules for counting the number of significant figures in a measured quantity.
- Q18. Distinguish between the terms precision and accuracy of a measurement.
- Q19. What do you mean by error in a measurement? Briefly explain the different types of errors and their causes. How can these errors be minimized?
- Q20. The percentage errors in the measurements of mass and speed are 2% and 3% respectively. How much will be the maximum error in the estimate of kinetic energy obtained by measuring mass and speed?

SUBJECT – CHEMISRY

General Instructions

1. Homework should be presented in good handwriting.
2. It is mandatory to submit the homework within given time limit.
3. Mention your name, class and section on the cover page.
4. Use available sheets to answer the questions.

Part - A

1. Calculate molarity of HCl of density is 1.17g/ml
(A) 32 M (B) 34M
(C) 16M (D) 8 M
2. Which of the conc. Terms are temperature independent
(A) Molality, Mass %, Mole fraction (B) Mass%, Molarity, Normality
(C) Molality, Normality, Volume % (D) ppm, molality, m/v%
3. Assume that the nucleus of the F-atom is a sphere of radius 5×10^{-13} cm. Calculate the density of matter in F nucleus.
(A) 6.02×10^{10} g/ml (B) 6.02×10^{13} g/ml
(C) 3.01×10^{10} g/ml (D) 1.15×10^{10} g/ml
4. 12 gm of Mg (At mass = 24) will react with an acid to give
(A) one mole of H₂ (B) one mole of O₂
(C) half moles of H₂ (D) half mole of O₂

Assertion–Reason type questions

The following questions consist of two statements each printed as Assertion and Reason. While answering these questions, you are required to choose any one of the following five responses.

- (A) If both Assertion and Reason are true and the Reason is a correct explanation of the Assertion.
 - (B) If both Assertion and Reason are true but Reason is not a correct explanation of the Assertion.
 - (C) If Assertion is true but the Reason is false.
 - (D) If the Assertion is false but the Reason is true.
 - (E) If both Assertion and Reason are false.
5. Assertion: A single C¹² atom has a mass exactly 12 amu and a mole of these atoms has a mass of exactly 12 grams.
Reason: A mole of atoms of any element has a mass in grams equal to its atomic weight.
 6. For which of the following species, Bohr theory doesn't apply
(A) H (B) He⁺
(C) Li²⁺ (D) Na⁺
 7. An electron is moving with a kinetic energy of 4.55×10^{-25} J. What will be de Broglie wavelength for this electron?
(A) 5.28×10^{-7} m (B) 7.28×10^{-7} m
(C) 2×10^{-10} m (D) 3×10^{-5} m

8. The two electrons present in an orbital are distinguished by
(A) principal quantum number (B) azimuthal quantum number
(C) magnetic quantum number (D) spin quantum number
9. The velocity of electron in the ground state hydrogen atom is $2.18 \times 10^6 \text{ms}^{-1}$. Its velocity in the second orbit would be
(A) $1.09 \times 10^6 \text{ms}^{-1}$ (B) $4.38 \times 10^6 \text{ms}^{-1}$
(C) $5.5 \times 10^5 \text{ms}^{-1}$ (D) $8.76 \times 10^6 \text{ms}^{-1}$
10. The ionization energy of the ground state hydrogen atom is $2.18 \times 10^{-18} \text{J}$. The energy of an electron in its second orbit would be
(A) $-1.09 \times 10^{-18} \text{J}$ (B) $-2.18 \times 10^{-18} \text{J}$
(C) $-4.36 \times 10^{-18} \text{J}$ (D) $-5.45 \times 10^{-19} \text{J}$

Part -B

- How many electrons in an atom have the following quantum numbers?
(i) $n = 4, m_s = -1/2$ (ii) $n = 3, \ell = 0$
- Write the number of protons, electrons and neutrons in nitride ion.
- Distinguish between absorption and emission spectra.
- Write down the electronic configuration of Mn^{4+} and Cr^{3+} . How many unpaired electrons are present in them?
- Explain why uncertainty principle is significant only for the motion of subatomic particles but not for macroscopic objects.
- Why we do not see a car moving in the form of a wave on a road?
- Calculate the radius of the third orbit of a hydrogen atom.
- The wavelength of a moving body of mass 0.1 mg is $3.31 \times 10^{-29} \text{m}$. Calculate its kinetic energy ($h = 6.625 \times 10^{-34} \text{J sec}$)
- Calculate the mass and charge of one mole of electrons.
- Calculate (a) wave number and (b) frequency of yellow radiations having wavelength of 5800 \AA .
- How is mole related to?
(a) number of atoms / molecules
(b) mass of the substance
(c) volume of the gaseous substance?
- How many molecules of the water and atoms of oxygen are present in 0.9 g of water?
- Define Empirical formula and Molecular formula. What is the relationship between them?
- What is a limiting reactant? Explain with suitable example.

15. Give one limitation of the law of constant composition.
16. Which law co-relates the mass and volume of a gas?
17. What is the difference between the mass of a molecule and molecular mass?
18. From 200 mg of carbon dioxide, 10^{21} molecules are removed. How many moles of the gas are left?
19. Determine the empirical formula of a compound having percentage composition as:
Fe = 20%; S = 11.5%; O = 23.1% and H_2O molecules = 45.4%
20. 4.90 g of $KClO_3$ when heated produced 1.92 g of oxygen and the residue (KCl) left behind weighs 2.96 g. Show that these results illustrate the law of conservation of mass.

SUBJECT - MATHEMATICS

General Instructions:

- 1) Solve the sums in a separate notebook or any diary.
- 2) Use the stuff which is available at home.
- 3) Do the questions in sequence.
- 4) Work should be neat.
- 5) Do the questions systematically.

SECTION - A

Choose the correct answer

- Q.1 If all the elements of a set possess a single common property then it can be represented by
(a) roster form (b) set-builder form (c) both (a) and (b) (d) Venn diagram
- Q.2 The set of odd prime numbers less than 10 is
(a) {1, 3, 5, 7, 9} (b) {1, 3, 5, 7} (c) {3, 5, 7} (d) {3, 5}
- Q.3 The elements of set A, satisfy the property $\frac{n}{2n+1}$, $n \in N$, $n < 5$ for their elements. The element which does not belong to the set is
(a) $\frac{3}{7}$ (b) $\frac{4}{9}$ (c) $\frac{1}{3}$ (d) $\frac{5}{11}$
- Q.4 The empty set or null set or the void set is not denoted by the symbol
(a) ϕ (b) { } (c) { ϕ } (d) ϕ or { }
- Q.5 {2, 4, 6, 8, - - - - - } is an example of
(a) finite set (b) infinite set (c) set of odd numbers (d) set of whole numbers
- Q.6 The number of subsets of a set containing n elements is
(a) 2^n (b) $2^n - 1$ (c) 2^{n-1} (d) n^n

- Q.7 For two non empty sets A and B, if $n(A) = m$ and $n(B) = n$, then the total number of relations from set A to set B is
 (a) $m + n$ (b) mn (c) 2^{mn} (d) none of these
- Q.8 Domain of $\sqrt{a^2 - x^2}$ ($a > 0$) is
 (a) $(-a, a)$ (b) $[-a, a]$ (c) $[0, a]$ (d) $(-a, 0]$
- Q.9 If $n(A) = 3$, $n(B) = 2$, then number of non empty relations from set A to set B are
 (a) 8 (b) 4 (c) 64 (d) 63
- Q.10 The number of elements in the power set of null set are
 (a) 0 (b) 1 (c) ϕ (d) $\{\phi\}$

Fill in the blanks

- Q.11 In open interval (a, b) all the real numbers lying between a and b belong, but a, b themselves _____ to this interval.
- Q.12 Let $A = \{2, 5\}$, then subsets of set A are $\phi, \{2\}, \{5\}, \{2,5\}$, i.e. 4 subsets then the number of elements its power set contains are _____.
- Q.13 If $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$, $A = \{1, 2, 3, 5\}$, $B = \{2, 4, 6, 7\}$ and $C = \{2, 3, 4, 8\}$ then $(B \cup C)'$ is _____.
- Q.14 Given $U = \{1, 2, 3, 4, 7, 8\}$ and set $A' = \{2, 3\}$ then set A is = _____.
- Q.15 The number of elements in the power set of the set $A = \{1, 2\}$ are _____.
- Q.16 If $(2x, y-x) = (y+3, 0)$, then value of y is _____.
- Q.17 Domain of polynomial function $f(x) = 3x^2 - 4x + 9$ is _____.
- Q.18 If $f(x) = x^3$ then $f(0.01)$ is _____.
- Q.19 If $A = \{1, 2, 4\}$, $B = \{2, 4, 5\}$, $C = \{2, 5\}$, then $(A - B) \times (B - C)$ is _____.
- Q.20 If the set A has p elements, B has q elements, then the number of elements in $A \times B$ is _____.

True or False

- Q.21 The set of popular leaders of India is a well defined set.
- Q.22 If A is any set, then $A \subseteq A$
- Q.23 A function is a relation but a relation may or may not be a function.
- Q.24 The value of $[4.97]$ is 4.
- Q.25 The relation $R = \{(a, 1), (b, -1), (c, 4), (a, -4), (d, 5)\}$ is function also.

Q.(26-30) : Let $A = \{1, 2, \{3, 4\}, 5\}$. State as 'True' or 'False' for the following statements.

Q.26 $\{3, 4\} \subset A$

Q.27 $\{1, 2, 5\} \subset A$

Q.28 $\{\phi\} \subset A$

Q.29 $1 \in A$

Q.30 $\{3, 4\} \in A$

SECTION-B

Solve the following

Q.31 A and B are two sets such that $n(A - B) = 14 + x$, $n(B - A) = 3x$ and $n(A \cap B) = x$, draw a Venn diagram to illustrate information and if $n(A) = n(B)$ then find the value of x .

Q.32 In a school there are 20 teachers who teach mathematics or Physics of these 12 teach Mathematics and 4 teach both Physics and Mathematics. How many teach Physics?

Q.33 In a group of 65 people, 40 like cricket, 10 like both cricket and tennis. How many like tennis only and not cricket?

Q.34 In an examination, 80% students passed in Mathematics, 72% passed in Science and 13% failed in both the subjects, if 312 students passed in both the subjects. Find the total number of students who appeared in the examination.

Q.35 If A and B are two sets such that $n(A) = 20$, $n(B) = 25$ and $n(A \cup B) = 40$, then find $n(A \cap B)$.

Q.36 Let $\cup = \{1, 2, 3, 4, 5, 6, 8\}$, $A = \{2, 3, 4\}$, $B = \{3, 4, 5\}$, show that $(A \cup B)' = A' \cap B'$ and $(A \cap B)' = A' \cup B'$.

Q.37 Let set $A = \{a, b, c, d\}$, set $B = \{b, d, e, f, g\}$ and set $C = \{a, c, e, f, h, i\}$, verify that $A \cap (B - C) = (A \cap B) - (A \cap C)$.

Q.38 In a survey of 425 persons, it was found that 115 watch sport channel, 160 watch discovery channel and 80 watch both sports and discovery channels. How many do not watch any of the channels?

Q.39 In a survey of 60 people, it was found that 25 people read newspaper H, 26 read newspaper T, 26 read newspaper I, 9 read both H and I, 11 read both H and T, 8 read both T and I, 3 read all three newspaper. Find the number of people who read at least one of the newspapers.

Q.40 In a group of 50 students, the number of students studying French, English, Sanskrit were found to be as follows : French = 17, English = 13, Sanskrit = 15, French and English = 9, English and Sanskrit = 4, French and Sanskrit = 5, English, French and Sanskrit = 3. Find the number of students who study at least one of the three languages.

Q.41 Let $A = \{1, 2\}$, $B = \{3, 4, 5\}$ and $C = \{5, 6\}$. Show that $A \times (B \cup C) = (A \times B) \cup (A \times C)$.

Q.42 If $A = \{-1, 1\}$, find $A \times A \times A$.

Q.43 Let R be a relation in N , defined as $R = \{(x, y) \in N \times N : x + 2y = 39\}$. Find the domain and the range of R .

Q.44 Given $A = \{2, 3, 4, 5, 6, 7, 8, 9\}$. Let R be a relation on A defined by $\{(x, y) : x \in A, y \in A \text{ and } x \text{ divides } y\}$

(a) Draw arrow diagram of R .

(b) Find (i) R in roster form (ii) Domain of R (iii) Range of R .

Q.45 Find the domain and range of the real function f defined by $f(x) = \frac{1}{\sqrt{9-x^2}}$.

Q.46 Find domain and range of $f(x) = \frac{x-2}{x-1}$.

Q.47 Let $f, g : R \rightarrow R$ be defined respectively $f(x) = x + 1$, and $g(x) = 2x - 3$, find $f + g ; f - g ; fg$.

Q.48 Find domain and range of the real function f defined by $f(x) = \begin{cases} 1-x, & x < 0 \\ 1, & x = 0 \\ x-1, & x > 0 \end{cases}$

and draw its graph.

Q.49 If $f : R \rightarrow R$ is defined by $f(x) = [x]$, the greatest integer function, find its domain, range and draw its graph.

Q.50 If $f(x) = \frac{x-1}{x+1}$, then show that

(i) $f\left(\frac{1}{x}\right) = -f(x)$ (ii) $f\left(\frac{1}{f(x)}\right) = -\frac{1}{f(x)}$

SUBJECT - BIOLOGY

General Instructions

1. Homework should be presented in good handwriting.
2. It is mandatory to submit the homework within given time limit.
3. Mention your name, class and section on the cover page.
4. Use available sheets to answer the questions.

Choose the most appropriate answer from given options.

- 1) To which system is related the classification given by Bentham & Hooker
- | | |
|-----------------|-------------------------|
| a) Phylogenetic | b) Natural |
| c) Artificial | d) New – biosystematics |

- 2) The application of chemicals in taxonomy is called

a) Phylogenic	b) Natural
c) Artificial	d) Chemotaxonomy

- 3) Who is father of Zoology?

a) Carolus Linnaeus	b) Aristotle	c) Huxley	d) Iwanowski
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- 4) The virus that parasites on bacterium is called

a) Bacteriophages	b) Cyanophages	c) animal Virus	d) Plant Virus
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- 5) Virus is discovered by

a) R.H. Whittaker	b) Carolus Linnaeus
c) Iwanowski	d) Bentham & Hooker

- 6) The book entitled “Species Planatarum” was written by

a) Linnaeus	b) John Ray
c) Engler&Prantal	d) Bentham & hooker

- 7) Many families collectively form

a) Species	b) Genus	c) Order	d) Division
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- 8) Whose structure is like tadpole?

a) Virus	b) Bacteria	c) bacteriophage	d) None
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- 9) What is found in the head of Bacteriophage?

a) DNA	b) RNA	c) DNA & RNA	d) None
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- 10) Which organism are called living fossil?

a) Mycoplasma	b) archaeobacteria	c) cyanobacteria	d) None
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Answer the following questions.

1. How are viroids different from viruses?
2. Explain how bacteria reproduce sexually by conjugation?
3. Write characteristic features of diatoms and dinoflagellates.
4. How is key helpful in identification and classification of an organism?
5. Define a Taxon. Give some examples of taxa at different hierarchial levels.
6. What does ICZN stand for?
7. What is monograph?
8. Which is the largest botanical garden in the world? Name a few well known botanical gardens in India.
9. Draw a neat and well labelled diagram of bacterial cell.
10. Write any three differences between pili and fimbrae?
11. Explain the process of transformation in bacteria. Why is it considered as a method of sexual reproduction?
12. Why do archaeobacteria called living fossil?
13. Explain structure of cyanobacterial cell with the help of diagram.
14. Write short note on Mycoplasma. What is the full form of MLO & PPLO.

15. What is the difference between plasmid and episome?
16. Write any five characteristics of ascomycetes and basidiomycetes each.
17. What are deuteromycetes? What is their other name?
18. What do you mean by primary mycelium and secondary mycelium?
19. What are mycorrhiza? Write any two advantages of mycorrhiza.
20. How will you differentiate fungi from algae?

SUBJECT - ACCOUNTANCY

General Instructions:

- 1) Submit the holiday homework in a separate note book.**
- 2) Give the answers in a sequence mentioning question numbers and their answers.**
- 3) Write in full the correct answer to a particular question instead of its number.**
- 4) In case school reopen in online mode, then home work will be submitted online by way of a word file.**

Pick up the correct answer from the given choices:

- (i) Which of the following is not a subfield of accounting?
 - (a) Management accounting.
 - (b) Cost accounting.
 - (c) Financial accounting.
 - (d) Book-keeping.
 - (e) None of these.
- (ii) Purposes of an accounting system include all the following except
 - (a) Interpret and record the effects of business transaction.
 - (b) Classify the effects of transactions to facilitate the preparation of reports.
 - (c) Summarize and communicate information to decision makers.
 - (d) Dictate the specify types of business enterprise transactions that the enterprises may engage in.
 - (e) None of these.
- (iii) Financial accounting information is characterized by all of the following except
 - (a) It is historical in nature.
 - (b) It is factual, so it does not require judgment to prepare.
 - (c) It results from inexact and appropriate measures.
 - (d) It is enhanced by management's explanation.
 - (e) None of these.
- (iv) Book-keeping is mainly concerned with
 - (a) Recording of financial data.
 - (b) Designing the systems in recording, classifying and summarising the recorded data.
 - (c) Interpreting the data for internal and external users.
 - (d) None of the above.
- (v) All of the following are functions of Accounting except
 - (a) Decision making.
 - (b) Measurement.
 - (c) Forecasting.
 - (d) Ledger posting.
 - (e) None of these.

- (vi) Financial statements are part of
 - (a) Accounting.
 - (b) Book-Keeping.
 - (c) All of the above.
 - (d) None of the above.
- (vii) Financial position of the business is ascertained on the basis of
 - (a) Records prepared under book-keeping process.
 - (b) Trial balance.
 - (c) Accounting reports.
 - (d) None of the above.
- (viii) Users of accounting information include

(a) Creditors.	(b) Lenders.
(c) Customers	(d) All of the above.
- (ix) Financial statements do not consider
 - (a) Assets expressed in monetary terms.
 - (b) Liabilities expressed in monetary terms.
 - (c) Assets expressed in non-monetary terms.
 - (d) Assets and liabilities expressed in non-monetary terms
 - (e) None of these.
- (x) On January 1, Sohan paid rent of `5,000. This can be classified as

(a) An event.	(b) A transaction.
(c) A transaction as well as an event.	(d) Neither a transaction nor an event.

SUBJECT - BUSINESS STUDY

General Instructions:

- 1) Submit the holiday homework in a separate note book.**
- 2) Write all the sub parts of the question at one place.**
- 3) Case studies answers should be brief and to the point.**
- 4) Holiday homework can also be shared in the form of PDF or Word file in case school reopens in an online mode.**

Answer the following questions:

Q.1 Nikhil wants to start a wholesale business of stationery items. But he is hesitating as it will involve hindrances related to finding consumers, moving goods from place of production to market, storing goods because of time gap between production and consumption, risk of theft, fire, accidents, procurement of capital to finance above activities, providing information to the consumers about products etc.

He approaches his friend Anant to discuss his problem. Anant, who himself imports the electric appliances for the purpose of exporting them to other countries, advises Nikhil to carry on with his plan and explains to him various functions performed by the second limb of business i.e., Commerce.

Anant elaborates on various advantages of 'trade' and 'auxiliaries to trade'. After getting convinced by the advice given by Anant, Nikhil starts the business named Nikhil Ltd. and finds no major problems at all in converting his desire into a business venture. Nikhil gets his company registered under the companies Act 2013.

- (a) Name the part of commerce which exclusively helps in the process of trading the goods and services.
- (b) Name the type of trade under which Anant was doing his business.
- (c) Name the service which helps Nikhil to remove the hindrance of storing the stationery items.
- (d) Name the service which helps Nikhil to remove the hindrance of place.

Q.2 Abdul is a single owner of a shoe manufacturing business. His business was suffering from continuous losses. To revive his business and to expand, he took a loan of '20 lakhs from 'Progressive Finance Co.' In suffer losses. This resulted in the declining assets and mounting debts. Abdul started defaulting on his repayment schedule. Finance company served him final notice to repay the loan and settle the account. He proposed the finance company to take over the business assets and clear their dues. Finance company took over the assets of the business in part settlement of their dues as the assets were not sufficient to settle the debts and they claimed the remaining amount from Abdul from his personal assets. Abdul refused to do so on the ground that loan was taken for the business and by him for personal use.

- (1) Name the form of business organization followed by Abdul.
- (2) Is the finance company justified in asking for remaining amount form Abdul's personal assets? Justify your answer by giving suitable feature of the business organization.

Q.3 'A', 'B', 'C', 'D' and 'E' are partners in partnership firm. The firm has different types of partners. Mr. A has contributed capital and participates in the management of firm. He shares profits and losses and is liable to an unlimited extent to the creditors of the firm. Mr. B has contributed capital and shares its profits and losses. He also has unlimited liability but he does not take part in day to day activities of business.

Association of Mr. C is not known to the general public but in all other respects he is like an active partner.

Mr. D has allowed the firm to use his name as he enjoys good reputation among clients but he does not either contribute capital or take part in the management.

Mr. 'E', 15 years of age is entitled to the benefits of partnership with mutual consent of all their members. He is not eligible to take part in management of firm and shares only profits and not losses of the firm.

- (i) How many partners of the firm has?
- (ii) Who is the active partner and what is the nature of his liability in the firm?
- (iii) Who is the sleeping partner in the firm and what is the nature of his liability?
- (iv) What king of partner is Mr. C and what king of liability does he have in the firm?
- (v) How does the partnership relationship of Mr. C differs from Mr. D ? How do they differ in their liability?
- (vi) Is Mast. E legal partner? Can be held liable for the liability of the firm?

Q.4 Sharma brothers inherited some ancestorla property. They decided to form a Hindu undivided family consisting of four male members. Mr. Raman Sharma was eldest brother so he became 'Karta'. The business took a loan of Rs.20 lac from Canara Bank, which was to be returned within 5 years. Due to poor financial position of the buiness, they were unable to repay the loan. Brother sold the ancestral property for Rs.10 lac and pain the amaount to Canara Bank. The Bank filed a case for recovery of balance amount. Mr. Raman Sharma pleaded the court

that the loan was taken for the purpose of Business; so all members of business are liable to repay. The court said all members are responsible only to the extent of their share in business and business property is already sold, but you being karta will have to repay whole amount even by selling your personal property.

- (a) In this case who has unlimited liability.
- (b) Was the decision of court to claim only from Raman is justified?

Q.5 Sneha after her course in designing started taking jobs for designing logo, wedding cards, pamphlets, advertisements etc. Her work became quite popular and she had continuous orders. She decided to have a separate office with some staff to help her. She was suggested by her father to have a business organization and run it properly.

- (a) Her business was constantly growing and she was facing problems with handling all orders and finishing them on time. Her friend Pooja, who was also a designer, proposed to join her as a business partner. Sneha was confused whether to continue her business as a sole trader or convert into a partnership firm. As a true friend of sneha, you are required to suggest the advantages and disadvantages of a partnership business. (two each)
- (b) Sneha and Pooja decide to form a partnership firm and do the business together. Suggest them on the following issues with proper reasons.
 - (i) What kind of liability will they have and how will it affect them?
 - (ii) How is 'Particular Partnership' different from 'Partnership at Will'?
 - (iii) Is it necessary for them to have an agreement and register their firm?

SUBJECT - ECONOMICS

General Instructions:

- 1) **Submit the holiday homework in a separate note book.**
- 2) **Give the answers in a sequence mentioning question numbers and their answers.**
- 3) **Write in full the correct answer to a particular question instead of its number.**
- 4) **In case school reopens in online mode, then home work will be submitted online by way of a word file.**

Pick up the correct answer from the given choices:

- (i) The law of scarcity:
 - (a) does not apply to rich, developed countries.
 - (b) applies only to the less developed countries.
 - (c) implies that consumers' wants will be satisfied in a socialistic system.
 - (d) implies that consumers' wants will never be completely satisfied.
 - (e) none of these.
- (ii) Which of the following is the best general definition of the study of Economics?
 - (a) Inflation and unemployment in a growing economy.
 - (b) Business decision making under foreign competition.
 - (c) Individual and social choice in the face of scarcity.
 - (d) The best way to invest in the stock market.
 - (e) none of these.

- (iii) What implication(s) does resource scarcity have for the satisfaction of wants?
 - (a) Not all wants can be satisfied.
 - (b) We will never be faced with the need to make choices.
 - (c) We must develop ways to decrease our individual wants.
 - (d) The discovery of new natural resources is necessary to increase our ability to satisfy wants.
 - (e) none of these.
- (iv) Rational decision making requires that:
 - (a) one's choices be arrived at logically and without error.
 - (b) one's choices be consistent with one's goals.
 - (c) one's choices never vary.
 - (d) one makes choices that do not involve trade-offs.
 - (e) none of these.
- (v) What is the "Fundamental Premise of Economics"?
 - (a) Natural resources will always be scarce.
 - (b) Individuals are capable of establishing goals and acting in a manner consistent with achievement of those goals.
 - (c) Individuals choose the alternative for which they believe the net gains to be the greatest.
 - (d) No matter what the circumstances, individual choice always involves a trade-off.
 - (e) None of these.
- (vi) Which of the following is a normative statement?
 - (a) Planned economies allocate resources via government departments.
 - (b) Most transitional economies have experienced problems of falling output and rising prices over the past decade.
 - (c) There is a greater degree of consumer sovereignty in market economies than planned economies.
 - (d) Reducing inequality should be a major priority for mixed economies.
 - (e) None of these.
- (vii) Which of the following statements would you consider to be a normative one?
 - (a) Faster economic growth should result if an economy has a higher level of investment.
 - (b) Changing the level of interest rates is a better way of managing the economy than using taxation and government expenditure.
 - (c) Higher levels of unemployment will lead to higher levels of inflation.
 - (d) The average level of growth in the economy was faster in the 1990s than the 1980s.
 - (e) None of these.
- (viii) An example of 'positive' economic analysis would be :
 - (a) an analysis of the relationship between the price of food and the quantity purchased.
 - (b) determining how much income each person should be guaranteed.
 - (c) determining the 'fair' price for food.
 - (d) deciding how to distribute the output of the economy.
- (ix) A study of how increases in the corporate income tax rate will affect the national unemployment rate is an example of
 - (a) macro-economics.
 - (b) descriptive economics.

- (c) micro-economics.
 - (d) normative economics.
 - (e) none of these.
- (x) From the national point of view which of the following indicates micro approach?
- (a) Per capital income of India.
 - (b) Underemployment in agricultural sector.
 - (c) Lock out in TELCO.
 - (d) Total savings in India.
 - (e) None of these.

SUBJECT - ENTREPRENEURSHIP

General Instructions:

- 1) Submit the holiday homework in a separate note book.**
- 2) Write all the sub parts of the question at one place.**
- 3) Case studies answers should be brief and to the point.**
- 4) Holiday homework can also be shared in the form of PDF or Word file in case school reopens in an online mode.**

A. PROJECT WORK:

Case study of Karsanbhai Patel (Founder of NIRMA)

Introduction

Journey towards Entrepreneurship

Contribution in Economy

Achievements and Acknowledgements

Business Mantra

Message to youth

Collect the information covering the above aspects and then write neatly on A4 size ruled thick sheets. Project should be hand written with minimum of 15 sheets. Be creative.

B. Answer the following Questions:

- Q1. Define Entrepreneurship. Discuss the process of Entrepreneurship.
- Q2. Discuss the Advantages and Disadvantages of Entrepreneurship.
- Q3. Describe any five Managerial functions of an Entrepreneur.
- Q4. Discuss the various myths surrounding Entrepreneurship.

SUBJECT - PHYSICAL EDUCATION

General Instructions:

1. Do all the questions of Section-A in notebook.
2. Section-B should be done in Practical file.
3. The written part should be neatly presented in your own handwriting.

SECTION-A

Multiple Choice Questions:-

- Q.1. Thomas cup is related to which sports?
a) Football b) Hockey c) Badminton d) Cricket
- Q.2. Which one of the following components is not included in Khelo-India Programme?
a) Playfield development b) Talent search and development
c) Sports for women d) Toorganise cricket competitions
- Q.3. The highest award given to sports coaches in India is
a) Arjuna Award b) KhelRatna Award
c) Vishwamitra Award d) Dronacharya Award
- Q.4. How much annual scholarship shall each selected athlete receive under the Khelo-India Scheme for 8 consecutive years?
a) Two lakh b) Five lakh c) Three lakh d) Eight lakh
- Q.5. The Deodhar Trophy is related to which sports?
a) Football b) Hockey c) Cricket d) Tennis
- Q.6. The first Olympic Games were held in the year
a) 876 BC b) 786 BC c) 776 BC d) 394 AD
- Q.7. The five interlinked rings of five different colours of the Olympic flag reflects
a) Unity of the world b) Brotherhood of mankind
c) International relations d) Globalisation
- Q.8. Indian Olympic Association was established in
a) 1925 b) 1926 c) 1927 d) 1928
- Q.9. Who was the founder president of IOA?
a) Dr. Noehrem b) Maharaja Bhupinder Singh
c) Sir Dorabji Tata d) None of these
- Q.10. The National Sports day celebrated on
a) August 28 b) August 29 c) August 21 d) August 23
- Q.11. Which of the following is health related fitness component?
a) Reaction ability b) Agility c) Speed d) Body Composition
- Q.12. The ability of the muscles to overcome resistance is called
a) Endurance b) Strength c) Speed d) Flexibility
- Q.13. Which one of the following is not a component of physical fitness?
a) Speed b) Cardiovascular endurance c) Strength d) Flexibility
- Q.14. Which of these components of physical fitness would a Marathon runner need the most?
a) Explosive strength b) Locomotor ability
c) Reaction ability d) Long-term endurance
- Q.15. On which date is the International Yoga Day celebrated every year?
a) 21st May b) 21st June c) 21st July d) 21st August

SECTION-B

Write following topics in Practical file:-

Practical 1: Labelled diagram of 400 M Track & Field with computations.

Practical 2: Computation of BMI of 10 members from family or neighbourhood and graphical representation of data.

SUBJECT - PAINTING

General Instructions:

- 1) Write the answers in a separate notebook or any diary.
- 2) Use the stuff which is available at home.
- 3) Do the questions in sequence.
- 4) Work should be neat.
- 5) Do the questions systematically.
- 6) Use only Blue ink to answer the questions.

1. Define the main elements of art.
2. What is art ? Write an essay to describe your definition of art.
3. Write a short note on Principles of art.
4. Write an essay on the origin n location of prehistoric rock paintings.

SUBJECT - HISORY

General Instructions:

- No glitters or such material to be used.
- You can be very creative but very sober.
- Exercises of the done chapters to be completed neatly in notebooks.

Chose any topic (theme) from text book study thoroughly and do some research on that topic with the help of reading some other books to enhance your knowledge about that particular theme.

Then write neatly on A4 size ruled thick sheets Rules:- hand written

Minimum 20 sheets Map related to the topic

Pictures related to the topic

Be creative but not to spend any money on decorative items after making it rough

Show me and then only you will make it fair

I will provide certificate and acknowledgement and then we will go for spiral binding

A. Exercises

- i. Complete the exercises of 2 themes which we have finished

SUBJECT - POLITICAL SCIENCE

General Instructions:

- No glitters or such material to be used.
- You can be very creative but very sober.
- Exercises of the done chapters to be completed neatly in notebooks.

Make a group of five

Chose any topic from your book constitution and prepare PPT with maximum 10 to 12 slides for presentation and store in your pendrive.

It should cover questions why how Who and the political analysis

Exercises- complete the exercises of the completed chapters.

SUBJECT - GEOGRAPHY

General Instructions:

1. Use A4-paper and interleaf paper only.
2. Entire project to be hand written, no printed. (Except the cover page)
3. Margin to be drawn on the right side of ever page.
4. Hand writing should be clean and neat.
5. The introduction must consist of 2 pages. (General over view of the topic)
6. The cover page must have
 - The school logo
 - Student's full name
 - Class
 - Roll No.
 - Subject
 - Topic and academic year

Specific Instruction for Project

- (i) Cover page
 - (ii) Index
 - (iii) Introduction
 - (iv) Details of photograph and news paper
 - (v) Conclusion
 - (vi) Bibliography
- Read the newspaper on a daily basis.....[Including e news papers]
 - Collect Information of any four geographical events occurring on the globe.
 - Paste the information and write a gist of each in about 250 to 500 words.

SUBJECT - MASS MEDIA

General Instructions:

- 1. Kindly submit the holiday homework in a handmade folder and entitle it as Portfolio.**
- 2. Assessment Criteria: originality and innovativeness, neatness, content, grammar, spellings, overall presentation, real photographs, completion of all the given questions and timely submission.**
- 3. The written part should be neatly presented in your own handwriting specifically highlighting the following features**
 - **Cover Page – (Do mention your Full Name, Class and section,)**
 - **Acknowledgement**
- 4. Remember a well presented ‘Holiday Home Work’ fetches you marks and appreciation of your teachers and classmates. This Holiday Homework will be a part of your Portfolio.**
- 5. Do all the given homework yourself, it is OK if it looks raw or unfinished, you are not a professional, and you are in process of learning. We your teachers will always appreciate your endeavours!**

- Q1. Analyse any 3 movies/T.V. Shows/News Articles and present Reviews of the same on A4 Sized Sheets.
- Q2. Prepare your own Radio/Talk Show and cover a series of Interviews of any 3 of your Family Members/Relatives. Record the Audio/Video(Using Video Conferencing) and cover their opinions on ‘COVID -19 and its impact on Personal/Professional life.’ Share it with your concerned Educator using We Transfer on shivanisharma010190@gmail.com .
- Q3. Create a video on ‘How to be Productive during this Pandemic’ and highlight some interesting ways for Mass to try it. Post the video on the Media Platform that you use and share the video along with its feedback with your concerned Educator using We Transfer.
- Q4. Design your own Local Newspaper and give it a Name of your choice. Supplement it with different categories of Information (Reports/Articles/Recipes etc.). Dedicate a column to voice your concern as the Editor of the Newspaper about any local issue you find appropriate along with a column entitled ‘Budding Authors/Poets’(they can be your friends) mandatorily. Share your Newspaper with concerned educator using We Transfer.

SUBJECT - HINDI

सभी प्रश्नों के उत्तर निर्देशानुसार दीजिए –

निर्देश :

- 1. सभी प्रश्नों के उत्तर अपेक्षा अनुसार दीजिए।**
- 2. स्वच्छता व सुलेख पर विशेष ध्यान दीजिए।**
- 3. ग्रीष्मकालीन गृहकार्य एक अलग कॉपी (घर में जो उपलब्ध हो) में करें।**
- 4. परियोजना-कार्य अलग फाइल में अपेक्षा अनुसार जमा करें।**
- 5. गृहकार्य निर्धारित समय पर अपने विषय शिक्षक/शिक्षिका को जमा करवाएं।**

प्रश्न 1 आपके घर में जो दृश्य (शीनरी/चित्र) लगा है , उसे ध्यानपूर्वक देखिए और दृश्य का वर्णन कीजिए या उसके आधार पर कोई कहानी लिखिए जिसका सीधा व स्पष्ट संबंध दृश्य से होना चाहिए।

प्रश्न 2 अभ्यास के लिए आपको भेजे गए अपठित गद्यांशों में से किसी एक के उत्तर लिखिए।

- प्रश्न 3 अभ्यास के लिए भेजे गए काव्यांशों के उत्तर लिखिए।
- प्रश्न 4 दैनिक हिंदुस्तान में संवाददाता के पद के लिए आवेदन-पत्र लिखिए।
- प्रश्न 5 'नमक का दरोगा' कहानी में प्रेमचंद ने लोकोक्तियों एवं मुहावरों का सुंदर प्रयोग किया है। आप इस पाठ को पढ़कर पाँच-पाँच लोकोक्तियाँ एवं मुहावरे छोटकर लिखिए।
- प्रश्न 6 पंडित अलोपीदीन की गिरफ्तारी से सभी लोग आश्चर्यचकित क्यों थे ?
- प्रश्न 7 'सत्य की हमेशा असत्य पर विजय होती है।' प्रस्तुत पंक्ति को 'नमक का दरोगा' कहानी के आधार पर स्पष्ट कीजिए।
- प्रश्न 8 'नमक का दरोगा' कहानी के आधार पर वंशीधर का चरित्र-चित्रण कीजिए।
- प्रश्न 9 'कोई भी काम छोटा या बड़ा नहीं होता, बल्कि उस काम को करने की भावना श्रेष्ठ होनी चाहिए' पंक्ति को 'मियाँ नसीरुद्दीन' पाठ के आधार पर स्पष्ट कीजिए।
- प्रश्न 10 'काम करने से आता है , नसीहतों से नहीं' उक्ति का अर्थ स्पष्ट करते हुए बताइए यह किसने कही व क्यों ?
- प्रश्न 11 मियाँ नसीरुद्दीन ने अपनी आजीविका चलाने के लिए कौन-सा काम किया व क्यों ?
- प्रश्न 12 कबीर की दृष्टि में ईश्वर एक है, इसके समर्थन में उन्होंने क्या तर्क दिए हैं ?
- प्रश्न 13 मानव शरीर का निर्माण किन पंच तत्त्वों से हुआ है ?
- प्रश्न 14 मीरा को भक्ति मार्ग में किन-किन बाधाओं का सामना करना पड़ा ?
- प्रश्न 15 निम्नलिखित में से किसी एक विषय पर परियोजना-कार्य (PROJECT) निर्देशानुसार तैयार कीजिए :

- निर्देश** – (1) परियोजना-कार्य लगभग 400 शब्दों में होना चाहिए।
 (2) इसे A4 शीट्स या रंगीन कागजों पर करने के उपरांत अलग फाइल में प्रस्तुत करें।
 (3) आपका कार्य सुंदर , मौलिक एवं रचनात्मक होना चाहिए किंतु इसकी सुंदरता व्यय साध्य न हो।

- विषय** : (1) भ्रष्टाचार मुक्त भारत में हमारे प्रयास
 (2) परंपरागत /खानदानी रोजगार से लाभ
 (3) मानव व प्रकृति का असंतुलन
 (4) जल संचयन एवं हमारा विद्यालय

अथवा

'फूट के दुष्परिणाम' विषय पर 400 शब्दों में (लगभग) एक कहानी लिखिए। कहानी मौलिक होनी चाहिए।

SUBJECT - PSYCHOLOGY

General Instructions

How to form answer –

- Write a **background** in every answer. For example- in question which asks about Triarchic theory of intelligence you should first explain- what is intelligence. A small background can be written for 3 and 4 marks questions while elaborate background in 6 marks question. (but maintain word limit)
- **Underline** the important words in your answer so that they get highlighted.
- Use **flow charts** while explaining.
- Write **neatly** in good handwriting.

❖ Answer the questions given at the end of chapter 1 and 2.

❖ Find out information about-

- fMRI
- EEG
- NIMHANS
- Emerging branches of psychology

Note : Kindly submit all subjects' holiday homework (within 15 days) of the reopening of school.

