

ADARSH VIDYALAYA, MOWA
HOLIDAY HOMEWORK (2021 - 22)
CLASS – XII SCIENCE

General Note:

- 1. All the assigned work will be assessed and graded.**
- 2. All vacation Practice work need to be done in class work copy.**
- 3. Assessment of reading will be done in every exam.**
- 4. Parents are requested to:**
 - **Spend time & have meals together with their ward.**
 - **Motivate their ward to inculcate the habit of “READING HINDI & ENGLISH Literature (Newspaper, Comics etc.)”**
 - **Allow them to be independent (age wise) in their daily tasks like:**
 - **Arrange shelves**
 - **Washing their own plates**
 - **Watering plants & weeding Garden**
 - **Hang/fold clean clothes**
 - **Dust furniture**
 - **Do simple mending (hems, buttons, etc.)**
 - **Shop for groceries with list**
 - **Iron clothes etc.**
 - **Include your ward while preparing monthly budget.**
 - **Share your family history & your childhood memories with them**
 - **Re continuation date of online teaching will be informed later**

ENGLISH

- 1) A week- long International Book Fair will be held at Pragati Maidan, New Delhi. Draft a poster informing the general public about the same.
- 2) As the President of the Lion’s Club of Vasundhara city, design a poster in not more than 50 words for promoting good health through the “Health Mela” to be held at the Central Community Hall of the city. Mention some of its attractions.
- 3) An inter-class drama competition is to be held in St. Stephen’s School Vishakhapatnam. As Aakash Head Boy of the school draft a notice to be put on the school notice board inviting entries for the competitions. Provide all the necessary in about 50 words.
- 4) You are Navneet resident of 65 P.H Road Mangalore. Recently you bought a mobile phone from The Phone Point, 83 Mount Road, Mangalore. The phone instrument developed a problem within a month of purchase. Write a letter to the dealer giving details of the nature of the problem and asking him to rectify the defect or replace the set.
- 5) You are pained to see the plight of stray animals on the streets. They depict a sad picture of a hard-hearted society in which they are neglected, crippled and starved. Write an article in about 120-150 words on the need to look after such animals.



- 6) A major bus mishap which left several people seriously injured took place at Nicholas Road Chennai. Luckily no life was lost. Collect the information from the eyewitnesses and send a report in 120-150 words to The Hindus. You are Vinod a staff reporter.
- 7) Read the chapter ‘Journey to the End of the Earth’ and make 3minutes video explaining the chapter.

PHYSICS

- 1) Write all the expressions and equations which you have studied in your previous classes (in practice notebook).
- 2) Solve NCERT questions of chapter 1 and 2.
- 3) Complete your practical and activity copies.
- 4) Prepare a bulletin board on chapter electricity.
- 5) Prepare a wall magazine on mars rover landing 2021.
- 6) Prepare a bulletin board depicting the important works of DRDO/ISRO from 2010 to 2021.

CHEMISTRY

- 1) Define the following with the help of 2 examples:

- a) Tranquilizer
- b) Anionic detergent
- c) Disinfectant
- d) Antibiotics
- e) Cationic detergent
- f) Antiseptic
- g) Broad spectrum antibiotics
- h) Narrow spectrum antibiotics
- i) Bakelite
- j) PVC
- k) Buna – S
- l) Analgesic
- m) Antipyretic
- n) Antacid

- 2) Write the monomers of the following:

- a) Nylon 6,6
- b) Styrene
- c) Neoprene
- d) Melamine – formaldehyde polymer
- e) Dacron
- f) PHBV

BIOLOGY

- 1) Prepare an investigatory project on topics given to you.
- 2) Suggest the aspects of reproductive health which need to be given special attention in the present scenario.
- 3) Why is the term test tube baby a misnomer?
- 4) Write a brief note on corona virus and how can you protect yourself and others from the spread of corona virus?

MATHEMATICS

- 1) Draw the mind mapping of the following chapters studied in class 11th:
 - a) Relations and Functions
 - b) Trigonometric functions
 - c) Straight lines
 - d) Conic sections
 - e) Limits and derivatives
 - f) Probability
- 2) Solve at least 50 questions each from Chapter – 1 Relations and Functions and Chapter – 2 Inverse trigonometric functions respectively.
- 3) Select a topic of your choice that you have studied in previous classes and make a Power Point Presentation on that topic.

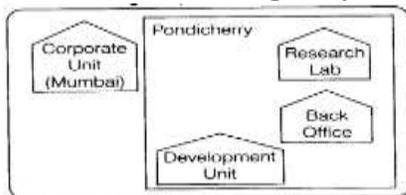
INFORMATICS PRACTICES

- 1) Define the following terms:
 - a) Network topology
 - b) Repeater
 - c) Router
 - d) Gateway
 - e) Bridge
 - f) Hub
 - g) Switch
 - h) Modem
- 2) Explain various mostly used topologies with their advantages and disadvantages.
- 3) Differentiate between:
 - a) LAN, MAN and WAN.
 - b) Cc and Bcc
 - c) Spam and Junk Mail
 - d) Static and Dynamic web pages
 - e) Server and Web Server
- 4) Expand the following terms:
 - a) IMAP
 - b) POP3

- c) SMTP
- d) HTTP
- e) IM
- f) ICQ
- g) IRC
- h) VoIP

- 5) Explain the term URL with example.
- 6) What is E-mail? List some advantages and limitations of e-mail.
- 7) Case study – based questions:

a) Bias Methodologies is planning to expand their network in India starting with three cities in India to build infrastructure for research and development of their chemical products. The company has planned to setup their main office in Pondicherry at three different locations and have named their offices as Back Office, Research Lab and Development Unit. The company has one more research office namely Corporate Unit in Mumbai. A rough layout of the same is as follows:



Approximate distance between these offices is as follows:

From	To	Distance
Research Lab	Back Office	110 m
Research Lab	Development Unit	16 km
Research Lab	Corporate Unit	1800 km
Back Office	Development Unit	13 km

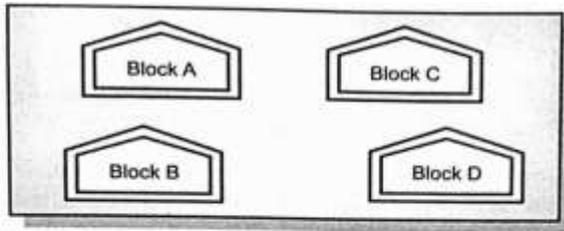
In continuation of the above, the company experts have planned to install the following number of computers in each of these offices.

Research Lab	158
Development Unit	90
Back Office	79
Corporate Unit	51

- (i) Suggest the kind of network required (out of LAN, MAN, WAN) for connection each of the following office unit:
 - (a) Research Lab and Back Office
 - (b) Research Lab and Development Unit
- (ii) Which of the following devices will you suggest for connecting all the computers with each of their office units?
 - (a) Switch/Hub
 - (b) Modem

- (c) Telephone
- (iii) Which of the following communication media, will you suggest to be procured by the company for connecting their local office units in Pondicherry for very effective (high speed) communications?
- (a) Telephone cable
 (b) Optical fiber
 (c) Ethernet cable
- (iv) Suggest a cable/wiring layout for connecting the company's local office units located in Pondicherry. Also, suggest an effective method/technology for connecting the company's office located in Mumbai.

b) Knowledge Supplement Organization has set up its new center at Mangalore for its office and web-based activities. It has 4 blocks of buildings as shown in the diagram below:



Center to center distances between various blocks

Block A to Block B	50 m
Block B to Block C	150 m
Block C to Block D	25 m
Block A to Block D	170 m
Block B to Block D	125 m
Block A to Block C	90 m

Number of Computers

Block A	25
Block B	50
Block C	125
Block D	10

- (i) Suggest a cable layout of connections between the blocks.
- (ii) Suggest the most suitable place (i.e., block) to house the server of this organisation with a suitable reason.
- (iii) Suggest the placement of the following devices with justification :
- (a) Repeater (b) Hub/Switch
- (iv) The organisation is planning to link its front office situated in the city in a hilly region where cable connection is not feasible, suggest an economic way to connect it with reasonably high speed.

PHYSICAL EDUCATION

1) Write the details about any one game in a Physical Education Practical Record File:

- a) Volleyball
- b) Basketball
- c) Football
- d) Cricket

Details to be written:

- a) Introduction
- b) History
- c) Skills
- d) Rules and Regulations
- e) Terminology
- f) Tournaments
- g) Personalities
- h) Awards

HINDI

- 1) हरिवंशराय बच्चन की कविताओं को अर्थग्रहण करते हुए वाचन करना एवं संबंधित प्रश्नोत्तर
- 2) महादेवी वर्मा का संस्मरण भक्तिन पाठ का वाचन करना, अर्थग्रहण संबंधित प्रश्नोत्तर
- 3) रचनात्मक लेखन-
 - a) जब मैंने पहली बार महामारी का सामना किया।
 - b) मेरे प्रेरणा स्रोत

*ग्रीष्मकालीन गृह कार्य अपनी कॉपी में लिखिए।