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|  | **SUMMER BREAK ASSIGNMENT XI (PCB)** |  |
|  | **DAV PUBLIC SCHOOL NTPC UNCHAHAR**  **HOLIDAY HOMEWORK**  **CLASS XI ENGLISH**  1. Draft a classified advertisement of ' Situation Vacant ' column for the post of a Front Office Coordinator in a reputed school.  2. You are Mohit, a software developer; you wish to switch your job due to your personal reasons, mentioning your qualifications and experience, draft a suitable classified.  3. You wish to dispose off your old car, mentioning the specifications and expected price, draft a suitable classified.  4. Write a speech in 120-140 words, expressing your views on the topic,' Why should junk food be avoided '.  5. Write a debate in 120-140 words for the motion or against the motion on the topic, ' Offline Classes are more productive than online classes ".  6. Write the theme and poetic Devices used in the poem, The Photograph ' 7.The narrator's grandmother was terribly old and she took all care of her grandson, write a small paragraph on how much your grandparents love you and how much time you devote with them.  8. Read the following passage carefully, there is an error in each line, find the error and replace it with correct word. Incorrect Correct  A man was walking to the forest ------------- -------------- Suddenly he sees a monstrous bear -------------- --------------- The bear was approach to him -------------- ---------------- Seeing no way, in he lied down --------------- ----------------- And holds his breath and waited -------------- ------------------ the bear sniffed in his ear or nose --------------- ------------------- It thought a man was dead --------------- -------------------- It went away without harm the man. ---------------- --------------------  9. Read the set of statement carefully and re- orders them in chronological order.  a. As a result, he could not perform well in the exam.  b. Since his father was ill, he couldn't devote his time in studies.  c. his study was going on fine before his father's illness.  d. Ravi was an intelligent boy in his class.  10. Prepare an art integrated project on the assigned topic, in the below mentioned serial. Project front page Index Acknowledgement Certificate About the poet Stanzas explanation Theme of the poem Poetic Devices used Bibliography. |  |
|  | **DAV PUBLIC SCHOOL NTPC UNCHAHAR**  **HOLIDAY HOMEWORK**  **CLASS XI (CHEMISTRY)**  *1*.Write Lewis dot symbols for atoms of the following elements :  a) Mg b) Na c) B d) O e) N f) Br  2.Draw the Lewis structures for the following molecules and ions :  H2S, SiCl4, BeF2, HCOOH  3.Discuss the shape of the following molecules using the VSEPR model:  BeCl2, BCl3, SiCl4, AsF5, H2S, PH3  4.Define hydrogen bonding and also describe its types with example.  5.What is the total number of sigma and pi bonds in the following molecules?  (a) C2H2  (b) C2H4  6.Considering x-axis as the inter nuclear axis which out of the following will not form a sigma bond and why?  (a) 1s and 1s (b) 1s and 2px (c) 2py and 2py (d) 1s and 2s  7. Distinguish between a sigma and a pi bond.  **CASE STUDY :**  Molecular orbitals are formed by the overlap of atomic orbitals. Two atomic orbitals combine to form two molecular orbitals called bonding molecular orbital (BMO) and antibonding molecular orbital (ABMO). Energy of antibonding orbital is raised above the parent atomic orbitals that have combined and the energy of the bonding orbital is lowered than the parent atomic orbitals. Energies of various molecular orbitals for elements hydrogen to nitrogen increase in the order :  σ1s < σ\*1s < 1σ2s < σ\*2s <(π2px≈π2py ><σ2p₂<(π\*2px-π\*2p,)<σ\*2p, and for oxygen and fluorine order of energy of molecular orbitals is given below: σ1s < σ\*1s < σ2sσ\*2s < σp,(π2px≈π2py) <(π\*2px≈π2py)<σ\*2pz  Different atomic orbitals of one atom combine with those atomic orbitals of the second atom which have comparable energies and proper orientation. Further, if the overlapping is head on, the molecular orbital is called ‘Sigma’, (σ) and if the overlap is lateral, the molecular orbital called ‘pi’, (π). The molecular orbitals are filled with electrons according to the same rules as followed for filling of atomic orbitals. However, the order for filling is not the same for all molecules or their ions. Bond order is one of the most important parameters to compare the strength of bonds.  Answer the following questions;  1.Which of the following pair is expected to have the same bond order?  (i) O2, N2 (ii) O2+, N2– (iii) O2–, N2+ (iv) O2–, N2–  2.In which of the following molecules, σ2pz molecular orbital is filled after π2px and π2py molecular orbitals?  (i) O2 (ii) F2 (iii) N2  (iv) None of these  3. Draw MOT diagram for O2, N2.  4. What is the shape of a, p d and f orbital’s.  **CASE STUDY:**  In order to explain the characteristicgeometrical shapes of polyatomic moleculeslike CH4,NH3 and H2O etc., Pauling introducedthe concept of hybridisation. According to himthe atomic orbitals combine to form new set ofequivalent orbitals known as hybrid orbitals.Unlike pure orbitals, the hybrid orbitals areused in bond formation. The phenomenon isknown as hybridisation which can be definedas the process of intermixing of the orbitals ofslightly different energies so as to redistributetheir energies, resulting in the formation of newset of orbitals of equivalent energies and shape.For example when one 2s and three 2p-orbitalsof carbon hybridise, there is the formation offour new sp3 hybrid orbitals. Salient features of hybridisation: The mainfeatures of hybridisation are as under :  The number of hybrid orbitals is equal tothe number of the atomic orbitals that gethybridised.  The hybridised orbitals are alwaysequivalent in energy and shape.  The hybrid orbitals are more effective informing stable bonds than the pure atomicorbitals.  These hybrid orbitals are directed in spacein some preferred direction to haveminimum repulsion between electronpairs and thus a stable arrangement.Therefore, the type of hybridisationindicates the geometry of the molecules. Important conditions for hybridisation  The orbitals present in the valence shell of the atom are hybridised.  The orbitals undergoing hybridization should have almost equal energy.Promotion of electron is not essential condition prior to hybridisation.It is not necessary that only half filled orbitals participate in hybridization.  **answer the following questions:**  1 .Whatis hybridization . Explain it with example.  2. Explain types of hybridization.  3. Explain the hybridization of SF6 molecule.  4. What is angle of SP, SP2, SP3, SP3D, SP3d2 hybridization?  **ART INTEGRATED QUESTIONS:**  Draw MOT diagram of N2, O2 (Kindly shows it in 3D form) or geometry of CH4, NH3, and H2O according to VSEPR. |  |
|  | **D A V PUBLIC SCHOOL, NTPC, UNCHAHAR, RAEBARELI**  **SUMMER BREAK ASSIGNMENT (2024-25)**  **CLASS – XI (Physical education)**  1. Which type of surface is used for basketball in international competitions?  2. Discuss the fit India movement.  3. What is the modern concept of physical education?  4. How wearable gears Help us In Sports?  5. Name and explain The organization Which works for Physical education and sports.  6. What are the key components of khelo India initiative and how does it aim to rejuvenate India’s sports culture from the grass root level?  7. How physical education can help you in future?  8. What is the primary responsibility of sports officials?  9. The topic for school annual debate this year is ‘Aims and Objectives of Physical Education’.  While quite a few students feel the subject should be made compulsory, some students think having this as part of the curriculum will be a waste of time. The Principal has selected you to speak in favor of it and explain why physical education should be made a compulsory part of the syllabus.  (a)Explain physical education in brief.  (b)How does physical education enhance social skills?  (c)What are the qualities that physical education helps improve in a person  10.Labelled diagram of field and equipment of anyone game of your choice from following list- Athletics,Volleyball, Football, Badminton,kabaddi,Kho Kho. |  |
|  | **DAV PUBLIC SCHOOL, NTPC UCNHAHAR**  **SUBJECT IT,CLASS – XI**  **ASSIGNMENTS SESSION- 2024-25**  Q.1 List three advantages of being assertive.  Q.2 What are barriers to communication? Explain them.  Q.3 Draw any two common signs used for visual communication.  Q.4 Explain all the terms related to knowing yourself.  Q.5 Difference between Menu bar and Tool bar with examples.  Q.6 List the limitations of a Computer.  Q.7 Write the steps to change the default printer.  Q.8 Difference between CUI and GUI.  Q.9 Write a few features of Windows OS.  Q.10 Describe the function of ALU and CU. |  |
|  | **DAV PUBLIC SHOOL, NTPC UNCHAHAR**  **SUMMER BREAK ASSIGNMENT 2024-25**  **CLASS XI (PHYSICS)**   1. Name the Five physical quantities which are dimensionless. 2. What is significant figure? Write the rules for determining the significant figure. 3. Define the following term- 4. Dimensional equation 5. Dimensional formula 6. Write the limitation of dimensional analysis 7. Explain about Average velocity and instantaneous velocity. 8. A car is moving in east direction and covered a distance‘t’ whose equation is x = 4t3+6t2+5t+4. Calculate the velocity and acceleration in 4 second. 9. Derive equation of motion with the help of Graphical method.   8.(a)Draw the Velocity versus time graph for following-   1. Positive acceleration 2. Negative acceleration 3. Zero Acceleration   8(b). **Case Study -1**  **Question.** The acceleration of an object is said to be uniform acceleration if its velocity changes by equal amount in equal interval of time, however small these time intervals may be. A particle is moving with uniform acceleration in x-direction, the displacement x of particle varies with time t as x = 4t2 -15t+25. M  (i)The position of particle at t = 0,  (a) 14 m. (b) 18 m (c) 20 m (d) 25 m  (ii) Velocity of particle at t = 2 s 24   1. -15 m/s (b) 1 m/s (c) 3 m/s (d) 31 m/   (iii) Acceleration of particle at t = 2 s  (a) 0 ms-2 (b) 8 ms-2 (c) 10 ms-2 (d) 20 ms-2  (iv) The velocity of particle will become zero at time t equal to  (a) 2.975 s. (b) 1.875 s. (c) 2 s. (d) 1 s.  (v) The particle has a uniform acceleration ‘a ‘when  (a) acceleration does not depend on time t  (b) acceleration depends on time t  (c) velocity changes by unequal amount in equal interval of time,  (d) None of these  **Case Study-2**  9. The time rate of change of position of the object in any direction is called speed of the object If an object covers equal distances in equal intervals of time, then its speed is called uniform speed and fit covers unequal distances in equal intervals of time, then its speed is called no uniform or variable speed. The ratio of the total distance travelled by the object to the total time taken is called average speed of the object. The speed may be positive or zero but never negative. The speed-time graph of a particle moving along a fixed direction is shown in following Fig.  (i) Distance travelled by the particle between 0 to 10 seconds  (a) 60 m (b) 50 m (c) 120 m (d) zero  (ii) Average speed between time interval 0 to 10 s  (a) 12 m/s (b) 6 m/s 25 (c) 10 m/s (d) 60 m/  (iii) The time when the speed was minimum  (a) at t = 0 s and t = 5 s (b) at t = 5 s and t = 20 s  (c) at t = 5 s and t = 10 s (d) at t = 0 s and t = 10 s  (iv) The time when speed was maximum  (a) t = 0 s (b) t = 5 s (c) t = 10 s (d) t = 12 s  (v) Speed is positive at time interval  (a) t = 0 to t = 5 s (b) t = 5 to t = 10 s (c) t = 0 to t = 10 s (d) All of these  **10. Project** : Write the name of 20 Scientist who got noble prizes in the field of Physics in A4 Size paper. Write about any of the 5 Scientists in 500 words in A4 size paper and also past coloured photograph of that scientist. |  |
|  | **DAV PUBLIC SHOOL, NTPC UNCHAHAR**  **SUMMER BREAK ASSIGNMENT 2024-25**  **CLASS XI SUBJECT- BIOLOGY**  1. What does ICZN and ICBN stand for?  2.Suppose you accidentally find an old preserved permanent slide without a label. In your effort to identify it, you  place the slide under microscope and observe the following features:  (a) Unicellular  (b) Well defined nucleus  (c) Biflagellate–one flagellum lying longitudinally and the other transversely. What would you identify it as? Can  you name the kingdom it belongs to?  3.**What is male and female sex organs in Bryophytes are called as?**  4. Differentiate between a virus and a viroid.  5. (i) Give one example of a fungi extensively used in cytological and genetic work.  (ii) Write the name of one fungi which causes smut disease.  (iii) Write the name of an edible fungi  (iv) Write name of one fungi which is the source of first antibiotic.  6.**What are the three groups of plants that bear archegonia?**  7.**Roots are used for the purpose of absorption. What is equivalent to roots in less developed lower plants?**  8. Bacteria are the sole members of the Kingdom Monera. They are the most abundant micro-organisms.  Bacteria occur almost everywhere. They also live in extreme habitats such as hot springs, deserts, snow and deep oceans where very few other life forms can survive. Many of them live in or on other organisms as parasites. Bacteria are grouped under four categories based on their shape –the spherical Coccus (pl.: cocci), the rod-shaped Bacillus (pl.: bacilli), the comma-shaped Vibrium (pl.: vibrio) and the spiral Spirillum (pl.: spirilla).Though the bacterial structure is very simple, they are very complex in behaviour. Some of the bacteria are autotrophic, i.e., they synthesise their own food from inorganic substrates. They may be photosynthetic autotrophic or chemosynthetic autotrophic. The vast majority of bacteria are heterotrophs, i.e., they depend on other organisms or on dead organic matter for food.  Archaebacteria  These bacteria are special since they live in some of the harshest habitats such as extreme salty areas (halophiles), hot springs (thermoacidophiles) and marshy areas (methanogens). Archaebacteria differ from other bacteria in having a different cell wall structure and this feature is responsible for their survival in extreme conditions. Methanogens are present in the gut of several ruminant animals such as cows and buffaloes and they are responsible for the production of methane (biogas) from the dung of these animals.  Eubacteria  There are thousands of different eubacteria or ‘true bacteria’. They are characterised by the presence of a rigid cell wall, and if motile, a flagellum. The cyanobacteria (also referred to as blue-green algae) have chlorophyll a similar to green plants and are photosynthetic autotrophs. The cyanobacteria are unicellular, colonial or filamentous, freshwater/marine or terrestrial algae. The colonies are generally surrounded by gelatinous sheath. They often form blooms in polluted water bodies. Some of these organisms can fix atmospheric nitrogen in specialised cells called heterocysts, e.g., Nostoc and Anabaena. Chemosynthetic autotrophic bacteria oxidise various inorganic substances such as nitrates, nitrites and ammonia and use the released energy for their ATP production. They play a great role in recycling nutrients like nitrogen, phosphorous, iron and sulphur.  Heterotrophic bacteria are most abundant in nature. The majority are important decomposers. Many of them have a significant impact on human affairs. They are helpful in making curd from milk, production of antibiotics, fixing nitrogen in legume roots, etc. Some are pathogens causing damage to human beings, crops, farm animals and pets. Cholera, typhoid, tetanus, citrus canker is well known diseases caused by different bacteria. Bacteria reproduce mainly by fission. Sometimes, under unfavourable conditions, they produce spores. They also reproduce by a sort of sexual reproduction. The Mycoplasma is organisms that completely lack a cell wall. They are the smallest living cells known and can survive without oxygen.  **(i) \_\_\_\_\_\_\_\_\_\_\_\_\_bacteria is responsible for formation of biogas from cow dung / organic waste**  (a) cyanobacteria (b) Halophiles (c) Thermoacidophiles (d) Methanogens  **(ii) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are the bacteria that can grow and thrive in salty areas.**  (a) Methanogens (b) Halophobic (c) Halophiles (d) Thermoacidophiles  (iii) Name the eubacteria which is also referred as blue green algae.  (iv) What is heterocyst?  (v) What are the thermoacidophiles?  9. The gymnosperms are plants in which the ovules are not enclosed by any ovary wall and remain exposed, both before and after fertilisation. The seeds that develop post-fertilisation, are not covered, i.e., are naked. Gymnosperms include medium-sized trees or tall trees and shrubs. One of the gymnosperms, the giant redwood tree Sequoia is one of the tallest tree species. The roots are generally tap roots. Roots in some genera have fungal association in the form of mycorrhiza (Pinus), while in some others (Cycas) small specialised roots called coralloid roots are associated with N2 – fixing cyanobacteria. The leaves may be simple or compound. In Cycas the pinnate leaves persist for a few years. The leaves in gymnosperms are well-adapted to withstand extremes of temperature, humidity and wind. In conifers, the needle-like leaves reduce the surface area. Their thick cuticle and sunken stomata also help to reduce water loss.  The gymnosperms are heterosporous; they produce haploid microspores and megaspores. The two kinds of spores are produced within sporangia that are borne on sporophylls which are arranged spirally along an axis to form lax or compact strobili or cones. The strobili bearing microsporophylls and microsporangia are called microsporangiate or male strobili. The microspores develop into a male gametophytic generation which is highly reduced and is confined to only a limited number of cells. This reduced gametophyte is called a pollen grain. The development of pollen grains take place within the microsporangia. The cones bearing megasporophylls with ovules or megasporangia are called macrosporangiate or female strobili. The male or female cones or strobili may be borne on the same tree (Pinus). However, in cycas male cones and megasporophylls are borne on different trees. The megaspore mother cell is differentiated from one of the cells of the nucellus. The nucellus is protected by envelopes and the composite structure is called an ovule. The ovules are borne on megasporophylls which may be clustered to form the female cones. The megaspore mother cell divides meiotically to form four megaspores. One of the megaspores enclosed within the megasporangium develops into a multicellular female gametophyte that bears two or more archegonia or female sex organs. The multicellular female gametophyte is also retained within megasporangium.  **(i) In gymnosperms, seeds that develop after fertilisation are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  a) Covered in ovary walls b) Not covered in ovary walls  c) Covered in ovary sheath d) None of the above  **(ii) Identify the correct characteristics of cycus**  Characteristic 1 –Leaves pinnate for a few years  Characteristic 2 – Small specialised coralloid roots present  Characteristic 3 – Roots are associated with nitrogen fixing bacteria  Characteristic 4 – Male and female cone are present on different plant  (a) Both 2 and 3 (b) Only 2 (c) 1, 2 and 3 (d) All of the above  **(iii) Name the special type of root found in cycus tree.**  **(iv) Why gymnosperms are referred as heterosporous group of plants.**  **(v) What is the reason behind needle-like leaves adaptation in gymnosperms?**  10. Prepare a project on any two of the following topic, using ‘Art Integration’.    Project Work: Design a semi-working or fully working biological model on any one of the following topic.  (i) Human respiratory system (ii) Cardio vascular system (iii) Sewage treatment plant  (iv) Rain water harvesting (v) Human excretory system (vi) Global warming and its control | **``** |

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|  | **CLASS –XI PCM**  **DAV PUBLIC SHOOL, NTPC UNCHAHAR**  **SUMMER BREAK ASSIGNMENT 2024-25**  **CLASS XI (MATHEMATICS)** |  |
|  | 1. Venn Diagrams Venn diagrams were invented by a logician John Venn as a way of picturing relationships between different groups of things. These diagrams, also called Set diagrams or Logic diagrams, are widely used in mathematics, statistics, logic, teaching, linguistics, computer science and business In the following diagram, triangle shows children, circle shows rural population, rectangle shows school going population & square shows boys.     Based on the information stated above answer the below given questions-:  i The village boys not going to school are denoted by which number?  a)1 b) 2 c)1,2 d)2,8  ii The village children not going to school are denoted by which number?  a)1 b) 2 c)6 d)2,6  iii What is represented by number 4?  a) School going boys b) Children who are boys  c) Children who are not from village. d) School going boys who are not from village.  iv School going boys from village are denoted by which number?   1. 3 b) 3,5 c) 3,4 d) 3, 4, 5,7 2 2. In the following figure small square represents the persons who know English, triangle to those who know Marathi, big square to those who know Telugu and circle to those who know Hindi. In the different regions of the figures from 1 to 12 are given     i How many persons can speak English and Hindi both the languages only ?  a) 5 b) 8 c) 7 d) 18  ii How many persons can speak all the languages?   1. 1 b) 8 c) 2 d) None   iii How many persons can speak Marathi and Telugu both ?   1. 10 b) 11 c) 3 d) None of these   iv How many persons can speak English, Hindi and Telugu ?  a) 8 b) 2 c) 7 d) None of these  3.  4.  5. Draw appropriate venn diagram for each of the following:  (a) (A 𝖴 B)’ (b) A – B.  6. Let A = {1, 2, 3, 4} and B = {10, 12, 13, 14, 20}. Whether f: A→ B defined by f(1) = 10, f(2) = 12, f(3)= 13 and f(4)= 20 is a function? Justify your answer.   1. Let A, B, and C be the sets such that A ∪ B = A ∪ C and A ∩ B = A ∩ C. Show   that B = C.   1. The function f is defined by   f(x)= draw the graph of f(x)    10. Calculate the area of the shaded portion, in the given figure. |  |
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|  | **DAV PUBLIC SCHOOL NTPC UNCHAHAR**  **HOLIDAY HOMEWORK**  **CLASS XI (CHEMISTRY)**  *1*.Write Lewis dot symbols for atoms of the following elements :  a) Mg b) Na c) B d) O e) N f) Br  2.Draw the Lewis structures for the following molecules and ions :  H2S, SiCl4, BeF2, HCOOH  3.Discuss the shape of the following molecules using the VSEPR model:  BeCl2, BCl3, SiCl4, AsF5, H2S, PH3  4.Define hydrogen bonding and also describe its types with example.  5.What is the total number of sigma and pi bonds in the following molecules?  (a) C2H2  (b) C2H4  6.Considering x-axis as the inter nuclear axis which out of the following will not form a sigma bond and why?  (a) 1s and 1s (b) 1s and 2px (c) 2py and 2py (d) 1s and 2s  7. Distinguish between a sigma and a pi bond.  **CASE STUDY :**  Molecular orbitals are formed by the overlap of atomic orbitals. Two atomic orbitals combine to form two molecular orbitals called bonding molecular orbital (BMO) and antibonding molecular orbital (ABMO). Energy of antibonding orbital is raised above the parent atomic orbitals that have combined and the energy of the bonding orbital is lowered than the parent atomic orbitals. Energies of various molecular orbitals for elements hydrogen to nitrogen increase in the order :  σ1s < σ\*1s < 1σ2s < σ\*2s <(π2px≈π2py ><σ2p₂<(π\*2px-π\*2p,)<σ\*2p, and for oxygen and fluorine order of energy of molecular orbitals is given below: σ1s < σ\*1s < σ2sσ\*2s < σp,(π2px≈π2py) <(π\*2px≈π2py)<σ\*2pz  Different atomic orbitals of one atom combine with those atomic orbitals of the second atom which have comparable energies and proper orientation. Further, if the overlapping is head on, the molecular orbital is called ‘Sigma’, (σ) and if the overlap is lateral, the molecular orbital called ‘pi’, (π). The molecular orbitals are filled with electrons according to the same rules as followed for filling of atomic orbitals. However, the order for filling is not the same for all molecules or their ions. Bond order is one of the most important parameters to compare the strength of bonds.  Answer the following questions;  1.Which of the following pair is expected to have the same bond order?  (i) O2, N2 (ii) O2+, N2– (iii) O2–, N2+ (iv) O2–, N2–  2.In which of the following molecules, σ2pz molecular orbital is filled after π2px and π2py molecular orbitals?  (i) O2 (ii) F2 (iii) N2  (iv) None of these  3. Draw MOT diagram for O2, N2.  4. What is the shape of a, p d and f orbital’s.  **CASE STUDY:**  In order to explain the characteristicgeometrical shapes of polyatomic moleculeslike CH4,NH3 and H2O etc., Pauling introducedthe concept of hybridisation. According to himthe atomic orbitals combine to form new set ofequivalent orbitals known as hybrid orbitals.Unlike pure orbitals, the hybrid orbitals areused in bond formation. The phenomenon isknown as hybridisation which can be definedas the process of intermixing of the orbitals ofslightly different energies so as to redistributetheir energies, resulting in the formation of newset of orbitals of equivalent energies and shape.For example when one 2s and three 2p-orbitalsof carbon hybridise, there is the formation offour new sp3 hybrid orbitals. Salient features of hybridisation: The mainfeatures of hybridisation are as under :  The number of hybrid orbitals is equal tothe number of the atomic orbitals that gethybridised.  The hybridised orbitals are alwaysequivalent in energy and shape.  The hybrid orbitals are more effective informing stable bonds than the pure atomicorbitals.  These hybrid orbitals are directed in spacein some preferred direction to haveminimum repulsion between electronpairs and thus a stable arrangement.Therefore, the type of hybridisationindicates the geometry of the molecules. Important conditions for hybridisation  The orbitals present in the valence shell of the atom are hybridised.  The orbitals undergoing hybridization should have almost equal energy.Promotion of electron is not essential condition prior to hybridisation.It is not necessary that only half filled orbitals participate in hybridization.  **answer the following questions:**  1 .Whatis hybridization . Explain it with example.  2. Explain types of hybridization.  3. Explain the hybridization of SF6 molecule.  4. What is angle of SP, SP2, SP3, SP3D, SP3d2 hybridization?  **ART INTEGRATED QUESTIONS:**  Draw MOT diagram of N2, O2 (Kindly shows it in 3D form) or geometry of CH4, NH3, and H2O according to VSEPR. |  |
|  | **D A V PUBLIC SCHOOL, NTPC, UNCHAHAR, RAEBARELI**  **SUMMER BREAK ASSIGNMENT (2024-25)**  **CLASS – XI (Physical education)**  1. Which type of surface is used for basketball in international competitions?  2. Discuss the fit India movement.  3. What is the modern concept of physical education?  4. How wearable gears Help us In Sports?  5. Name and explain The organization Which works for Physical education and sports.  6. What are the key components of khelo India initiative and how does it aim to rejuvenate India’s sports culture from the grass root level?  7. How physical education can help you in future?  8. What is the primary responsibility of sports officials?  9. The topic for school annual debate this year is ‘Aims and Objectives of Physical Education’.  While quite a few students feel the subject should be made compulsory, some students think having this as part of the curriculum will be a waste of time. The Principal has selected you to speak in favor of it and explain why physical education should be made a compulsory part of the syllabus.  (a)Explain physical education in brief.  (b)How does physical education enhance social skills?  (c)What are the qualities that physical education helps improve in a person  10.Labelled diagram of field and equipment of anyone game of your choice from following list- Athletics,Volleyball, Football, Badminton,kabaddi,Kho Kho. |  |
|  | **DAV PUBLIC SHOOL, NTPC UNCHAHAR**  **SUMMER BREAK ASSIGNMENT 2024-25**  **CLASS XI SUBJECT-PHYSICS**  1. Name the Five physical quantities which are dimensionless.  2. What is significant figure? Write the rules for determining the significant figure.  3.Define the following term-   1. Dimensional equation 2. Dimensional formula   4.Write the limitation of dimensional analysis  5.Explain about Average velocity and instantaneous velocity.  6.A car is moving in east direction and covered a distance ‘t’whose equation is x = 4t3+6t2+5t+4. Calculate the velocity and acceleration in 4 second.  7.Derive equation of motion with the help of Graphical method.  8.(a)Draw the Velocity versus time graph for following-   1. Positive acceleration 2. Negative acceleration 3. Zero Acceleration   8(b).Name the Five physical quantities which are dimensionless.  9What is significant figure? Write the rules for determining the significant figure.  10.Define the following term-   1. Dimensional equation 2. Dimensional formula   11.Write the limitation of dimensional analysis  12. Explain about Average velocity and instantaneous velocity.  13. A car is moving in east direction and covered a distance ‘t’whose equation is x = 4t3+6t2+5t+4. Calculate the velocity and acceleration in 4 second.  14. Derive equation of motion with the help of Graphical method.  15.Draw the Velocity versus time graph for following-   1. Positive acceleration 2. Negative acceleration 3. Zero Acceleration   16. **Case Study -1**  **Question.** The acceleration of an object is said to be uniform acceleration if its velocity changes by equal amount in equal interval of time, however small these time intervals may be. A particle is moving with uniform acceleration in x-direction, the displacement x of particle varies with time t as x = 4t2 -15t+25. M  (i)The position of particle at t = 0,  (a) 14 m. (b) 18 m (c) 20 m (d) 25 m  (ii) Velocity of particle at t = 2 s 24   1. -15 m/s (b) 1 m/s (c) 3 m/s (d) 31 m/   (iii) Acceleration of particle at t = 2 s  (a) 0 ms-2 (b) 8 ms-2 (c) 10 ms-2 (d) 20 ms-2  (iv) The velocity of particle will become zero at time t equal to  (a) 2.975 s. (b) 1.875 s. (c) 2 s. (d) 1 s.  (v) The particle has a uniform acceleration ‘a ‘when  (a) acceleration does not depend on time t  (b) acceleration depends on time t  (c) velocity changes by unequal amount in equal interval of time,  (d) None of these  **Case Study-2**  17.The time rate of change of position of the object in any direction is called speed of the object If an object covers equal distances in equal intervals of time, then its speed is called uniform speed andifit covers unequal distances in equal intervals of time, then its speed is called nonuniform or variable speed. The ratio of the total distance travelled by the object to the total time taken is called average speed of the object. The speed may be positive or zero but never negative. The speed-time graph of a particle moving along a fixed direction is shown in following Fig.  (i) Distance travelled by the particle between 0 to 10 seconds  (a) 60 m (b) 50 m (c) 120 m (d) zero  (ii) Average speed between time interval 0 to 10 s  (a) 12 m/s (b) 6 m/s 25 (c) 10 m/s (d) 60 m/  (iii) The time when the speed was minimum  (a) at t = 0 s and t = 5 s (b) at t = 5 s and t = 20 s  (c) at t = 5 s and t = 10 s (d) at t = 0 s and t = 10 s  (iv) The time when speed was maximum  (a) t = 0 s (b) t = 5 s (c) t = 10 s (d) t = 12 s  (v) Speed is positive at time interval  (a) t = 0 to t = 5 s (b) t = 5 to t = 10 s (c) t = 0 to t = 10 s (d) All of these  **18. Project** : Write the name of 20 Scientist who got noble prizes in the field of Physics in A4 Size paper. Write about any of the 5 Scientists in 500 words in A4 size paper and also past coloured photograph of that scientist.  **--------------------------------------------------------------------------------------------------------------------**  **XI (COMMERCE)**  **DAV PUBLIC SCHOOL NTPC UNCHAHAR**  **HOLIDAY HOMEWORK**  **CLASS XI ENGLISH**  1. Draft a classified advertisement of ' Situation Vacant ' column for the post of a Front Office Coordinator in a reputed school.  2. You are Mohit, a software developer; you wish to switch your job due to your personal reasons, mentioning your qualifications and experience, draft a suitable classified.  3. You wish to dispose off your old car, mentioning the specifications and expected price, draft a suitable classified.  4. Write a speech in 120-140 words, expressing your views on the topic,' Why should junk food be avoided '.  5. Write a debate in 120-140 words for the motion or against the motion on the topic, ' Offline Classes are more productive than online classes ".  6. Write the theme and poetic Devices used in the poem, The Photograph ' 7.The narrator's grandmother was terribly old and she took all care of her grandson, write a small paragraph on how much your grandparents love you and how much time you devote with them.  8. Read the following passage carefully, there is an error in each line, find the error and replace it with correct word. Incorrect Correct  A man was walking to the forest ------------- -------------- Suddenly he sees a monstrous bear -------------- --------------- The bear was approach to him -------------- ---------------- Seeing no way, in he lied down --------------- ----------------- And holds his breath and waited -------------- ------------------ the bear sniffed in his ear or nose --------------- ------------------- It thought a man was dead --------------- -------------------- It went away without harm the man. ---------------- --------------------  9. Read the set of statement carefully and re- orders them in chronological order.  a. As a result, he could not perform well in the exam.  b. Since his father was ill, he couldn't devote his time in studies.  c. his study was going on fine before his father's illness.  d. Ravi was an intelligent boy in his class.  10. Prepare an art integrated project on the assigned topic, in the below mentioned serial. Project front page Index Acknowledgement Certificate About the poet Stanzas explanation Theme of the poem Poetic Devices used Bibliography.  **================================================================**  **D A V PUBLIC SCHOOL, NTPC, UNCHAHAR, RAEBARELI**  **SUMMER BREAK ASSIGNMENT (2024-25)**  **CLASS – XI (Physical education)**  1. Which type of surface is used for basketball in international competitions?  2. Discuss the fit India movement.  3. What is the modern concept of physical education?  4. How wearable gears Help us In Sports?  5. Name and explain The organization Which works for Physical education and sports.  6. What are the key components of khelo India initiative and how does it aim to rejuvenate India’s sports culture from the grass root level?  7. How physical education can help you in future?  8. What is the primary responsibility of sports officials?  9. The topic for school annual debate this year is ‘Aims and Objectives of Physical Education’.  While quite a few students feel the subject should be made compulsory, some students think having this as part of the curriculum will be a waste of time. The Principal has selected you to speak in favor of it and explain why physical education should be made a compulsory part of the syllabus.  (a)Explain physical education in brief.  (b)How does physical education enhance social skills?  (c)What are the qualities that physical education helps improve in a person  10.Labelled diagram of field and equipment of anyone game of your choice from following list- Athletics,Volleyball, Football, Badminton,kabaddi,Kho Kho.  **DAV PUBLIC SCHOOL, NTPC UCNHAHAR**  **SUBJECT –IT CLASS XI**  **HOLIDAYS ASSIGNMENTS SESSION- 2024-25**  Q.1 List three advantages of being assertive.  Q.2 What are barriers to communication? Explain them.  Q.3 Draw any two common signs used for visual communication.  Q.4 Explain all the terms related to knowing yourself.  Q.5 Difference between Menu bar and Tool bar with examples.  Q.6 List the limitations of a Computer.  Q.7 Write the steps to change the default printer.  Q.8 Difference between CUI and GUI.  Q.9 Write a few features of Windows OS.  Q.10 Describe the function of ALU and CU.  **DAV PUBLIC SCHOOL NTPC UNCHAHAR**  **HOLIDAY HOMEWORK**  **CLASS- XI BUSINESS STUDIES**  **Short Questions**    **1.**What are the causes for the possibility of inadequate profits due to uncertainties or unexpected events?  **2.**Compare between Business, profession & Employment on the basis of the following:a) Capital Investmentb) Riskc) Transfer of interest  **3.**Partners in affirm has different roles and liabilities, Identify and explain the type of partner in a firm from the given examples:  **4.**What is meant by partner by estoppel OR Mr. Singh is in ‘lighting’ business for the post 15 years. To help his friend, Mr Yadav, a beginner he projected himself as a partner before Mohd. Abdul, a whole sale dealer of fancy lights. Mohd. Abdul gave Mr. Yadav the stock without asking for payment and gave him credit limit of one month. Will Mr. Singh be liable to Md. Abdul if Mr. Yadav does not pay him on time ? Classify Mr. Singh’s role here along with an explanation.  **Long Question**  **1.**Why cooperative forms of organisation are formed? Explain various types of cooperative societies.  **2.**DhirubhaiChaurasiya operates a textile business. His family is joint and has a lot of ancestral property. All the 15 family members are a part of this business. He is the eldest male member in the family so he heads the business. He is liable to all the creditors of the business as he is the decision maker. Dhirubhai’s grandson has just born a few days ago and he is also the member of the business.   1. Which form of business is being undertaken by DhirubhaiChaurasiya ? 2. Identify the lectures of this form of business based on the information given by quoting line   **3.**What provides the necessary link between producers & consumers with all those activities which are necessary for maintaining a free flow of goods & services? Discuss all those activities.  **CASE BASED QUESTIONS**  **1.**Zainab, Shelly &Ravina are friends. They have just completed a fashion designing course. They wish to start a business together. They have Rs.10,00,000 savings put together and are planning to take a bank loan of additional Rs.10 lakhs. They have found a prime location in KarolBagh where they can set their boutique. They decide that they will initially not take very big orders. Based on this information, quote the lines associated with factors affecting the decision to start a business and classify them.  **2** .'Reva Chemicals' is a partnership firm. Sona and Mona one two partners in this firm. It is recorded in the Partnership Deed that Sona's liability is unlimited, whereas Mona's is limited. Sona wants to set up the Anti-Pollution plant in his factory, but Mona does not let him do so. Almost all the transactions of this firm are done through the internet. The firm Sells its goods to other Business units only. The firm gets its Research and Development work done by another firm, who is a specialist of such work.   1. Describe the type of partnership. 2. identify the two values being overlooked 3. Name the type-business being done by the firm   **Project Based Assignment**  Additionally few tricks and tips to prepare Business Studies Project Class 12 are given below.  1. Handwritten TOC (Table of Content).  It is important for any students to understand that the table of content for Business Studies Project for Class 12 should be written by hand and not typed or printed.  2. Distinct Handwriting  Content written by hand must be clear and neat, so the examiner can read the content properly. A neat project can secure students excellent marks.  3. Submit in Spiral Bound  Make sure that the project is submitted neatly attached in a spiral-bound book.  4. Project Format  The formatting of a project should be in a file set up.  5. Size of the paper  The overall project has to be hand-written and the size of the paper should be A4.  6. Check Notes Alignment  Project notes have to be written only on the science project paper, on the ruled side and not on the blank pages.  7. Headers  Leave the same portion margin on the Bottom, Top, left, and right of the project page.  8. Number each Pages  The entire project needs to have numbers.  9. Tables and Numbers  •The entire mentioned tables and numbers must be arranged in the middle of the page, categorized with the numbers, titles, and required labels.  10. Classification of the Project  The outer and the first cover of the project should have the title/heading, along with student information including school name and the year.  •Acknowledgement  •Certificate (if you have any)  •Table of contents  •Topic and Introduction with a suitable heading  •Newspaper cuttings (If Any)  •Summary/Conclusion of the project  •Bibliography  •Teachers Remarks and Observation.  Topic  ROLL NUMBER 1-5Digital Revolution in Retail6-10 forms of business organisation 11-15 Source Of Business Finance  16-20 Departmental Store  21-25 Study of working of any cooperative society  26-30 Study of postal and courier service  31-32 compere study of two whole seller  **DAV PUBLIC SCHOOL NTPC UNCHAHAR**  **HOLIDAY HOMEWORK**  **CLASS XI**  **SUBJECT- ACCOUNTANCY**  **Short Questions**  **1-**To whom and for what process the accountant provides information?  **2-**Explain reasons why users need accounting information.  **3-**Why some accounting systems are called double accounting systems?  **4-**. Define capital of the company.  **Long Question**  **1 -**Role of accountant in today’s environment and how they help management?  **2-**Define all the four nature of accounting. Explain?  **3-**Give details about the liabilities side of the balance sheet of the company.  **CASE BASED QUESTIONS**  **1.** Read the following case study and answer questions Sam and Jay started with Cash 10,000 and Machinery 1,00,000. They decided to set up a production line for PPE kits for. the protection from Covid 19 virus. As their demand rose, they decided to buy one more piece of machinery. For the same, they took bank overdraft and purchased the machinery. The quality of the company’s product was extremely high and therefore, it could develop a reputation for itself in the market and business was flourishing. After 1.5 years, their old machinery turned obsolete so they decided to sell the same. They sold it and got some cash proceeds. To further increase the brand presence among the concerned stakeholders, they decided to run advertisements from the cash proceeds of machinery sold. As more and more customers demanded their product, they decided to launch a discount for bulk purchases. The discount was not to be recorded in the books of accounts. This campaign was successful and they earned a lot of profits from the same.1. Which type of discount is being discussed in the last part of the passage?  2-Ram and Shyam are two friends who both have just attended their first class of accountancy. The friends were intrigued by the different branches of accounting and their widespread application. Ram personally liked the branch of accounting in which fund flow statement and budgetary control is used and that branch helps in planning and controlling of operations. As the concept of accounting was further explored, they began discussing the different users of accounting. Ram said that he finds it interesting that even the employees demand information relating to business. Shyam said he finds more interesting the fact that even competitors want information on the relative strengths and weaknesses of the enterprise and for making comparisons, Shyam further said that even accounting helps owners to compare one year’s costs, expenses, and sales with those of other years. However, they were quite shocked by the fact that the management-worker relations were not taken into consideration in the accounting. Meanwhile, Ram and Shyam had an argument at the end of the discussion. Ram was saying that accounting is an art whereas Shyam was saying that accounting is a science. Their teacher came in and said something to them which made them stop the argument.  **1**. What might their teacher have said to solve their argument?  **Project Based Assignment**  Additionally few tricks and tips to prepare Business Studies Project Class 12 are given below.  1. Handwritten TOC (Table of Content).  It is important for any students to understand that the table of content for Business Studies Project for Class 12 should be written by hand and not typed or printed.  2. Distinct Handwriting  Content written by hand must be clear and neat, so the examiner can read the content properly. A neat project can secure students excellent marks.  3. Submit in Spiral Bound  Make sure that the project is submitted neatly attached in a spiral-bound book.  4. Project Format  The formatting of a project should be in a file set up.  5. Size of the paper the overall project has to be hand-written and the size of the paper should be A4.  6. Check Notes Alignment Project notes have to be written only on the science project paper, on the ruled side and not on the blank pages.  7. Headers leave the same portion margin on the Bottom, Top, left, and right of the project page.  8. Number each Page the entire project needs to have numbers.  9. Tables and Numbers The entire mentioned tables and numbers must be arranged in the middle of the page, categorized with the numbers, titles, and required labels.  10. Classification of the Project The outer and the first cover of the project should have the title/heading, along with student information including school name and the year.  •Acknowledgement  •Certificate (if you have any)  •Table of contents  •Topic and Introduction with a suitable heading  •Newspaper cuttings (If Any)  •Summary/Conclusion of the project  •Bibliography  •Teachers Remarks and Observation.  Topic  ROLL NUMBER 1-5Digital Revolution in Retail6-10 forms of business organisation11-15 Source of Business Finance16-20 Departmental Store21-25 Study of working of any cooperative society26-30 Study of postal and courier service31-32 compare study of two whole seller **D A V PUBLIC SCHOOL, NTPC, UNCHAHAR, RAEBARELI**  **SUMMER BREAK ASSIGNMENT (2024-25)**  **CLASS – XI (ECONOMICS)**  1. Although water is useful, yet it is cheap. On the contrary, diamond is not much of use, still is very expensive.Give an economic reason for this paradox.  2. ‘’Only Scarce goods attract Price.”Comment.  3. Massive unemployment will shift the PPF to the left. Defend or refute.  4. What will be the impact of ‘’Education for all campaign” on the PPC of the Indian economy. Explain with the help of diagram.  5. Harish earns Rs 10 lakhs per year from business. He gets an offer from a company to work at a Salary of Rs 8,40,000 per year. Determine opportunity cost of Harish.  6. Giving reason, comment on the shape of the Production Possibilities curve based on the  Following schedule:  GOOD-X (UNITS) -: 0 1 2 3 4  GOOD-Y (UNITS) -: 20 18 14 8 0  7. A consumer consumes only two goods X and Y whose prices are Rs 5 and Rs 4 per unit respectively. If MUy =16 at the point of consumer’s equilibrium, calculate MUx.  8. A consumer consumes only two goods X and Y whose prices are Rs 5 and Rs 6 per unit respectively. If the consumer chooses a combination of the goods with marginal utility of X equal to 35 and that of Y equal to 30, is the consumer in equilibrium? Give reasons What will a rational consumer do in this situation? Use utility analysis.  9. Identify the following as positive Statements and Normative Statements:  (i) People should save more for their future.  (ii) In India, pollution is increasing at an alarming rate.  (iii) Smoking should be discouraged in the world.  (iv) In India, tax rate slabs increase with increase in income.  (v) High taxes on cigarettes discourage smoking.  10. Make a project file on PPC (meaning, properties, shifting, rotation).  **XII (PCB)**  **----------------------------------------------------------------------------------------------------------------**  **DAV PUBLIC SCHOOL NTPC UNCHAHAR**  **Summer Break Assignment 24-25**  **Class XII English Core**  1.Your school DAV PUBLIC SCHOOL is organizing English Writing Skills Week, students of classes XI and XII can participate in it, mentioning the details draft a suitable notice for the school notice board.  2. You are Rohit of 36, Model Town, Lucknow, you have recently purchased an apartment. You are going to organise a house warming ceremony, mentioning the details write an informal invitation to your friend Lalit.  3. You are Akash of 124 B, Pratap Nagar, Raebareli, you come across a situation vacant of software Engineer in Infrared Cyber Solutions Ltd., Bengaluru, write a job application mentioning your qualifications and experience, insert a brief biodata.  4. Write the themes and poetic Devices of the poems of the poem ' My Mother at Sixty Six' and 'Keeping Quiet.'  5. The poet Pablo Neruda advocates the necessity of keeping quiet. How can suspension of activities bring harmony and peace to the world? Write your views in not more than 150-180 words.  6. Prepare a group survey Report based on the given topics.  7. Your school organised a farewell ceremony for the students of class XII, covering the event write a report in 150-180 words.  8. Revise the summary of the chapters, Deep water and The Rattrap. |  |
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|  | **DAV PUBLIC SCHOOL NTPC UNCHAHAR**  **HOLIDAY HOMEWORK 2024-25**  **CLASS XII (CHEMISTRY )**  LONG TYPE QUESTIONS   1. If benzoic acid (M.= 122 g/mol) is associated into a dimer when dissolved in benzene and the osmotic pressure of solution of 6.1g of benzoic acid in 100 millilitre benzene is 6.5 ATM at 27°C, then what is the percentage association of benzoic acid?   Given : ( R = 0.0821 Latm /K mol)   1. 2 g of benzoic acid (C6H5COOH) dissolved in 25 gram of benzene in shows a depression in freezing point equals to 1.62 Kelvin.Molal depression constant for benzene is 4.9 Kelvin kilogram per mole . what is the percentage association of acid if it forms dimer in solution? 2. 0.6 millilitre of acetic acid, having density 1.06g /ml , is dissolved in one litre of water the depression in freezing point observed for this strength of acid was 0.0205°C. calculate the vanthoff factor and the dissociation constant of acid. 3. A solution containing 1.9 g per 100 mL of KCl ( M=74.5 g mol¹) is isotonic with a solutist 3 g per 100 mL of urea M=60 g mol¹). Calculate the degree of dissociation of KCl solution that both the solutions have same temperature. 4. (I)Halogens are less reactive than halogens toward nucleophilic substitution reaction.   (ii) The presence of Nitro group at ortho para position increases the reactivity of Haloarenes toward nucleophilic substitution reactions.  6.among all the isomers of molecular formula C4H9Br identify  (a) The one isomer which is optically active.  (b) The one isomer which is highly reactive towards SN2 reaction  (c) The two isomers which gives same product on dehydrohalogenation with alcoholic KOH.  7.Account for the following :  (I) benzyl chloride is highly reactive towards SN1 reaction.  (II) Butane mov-1-ol is optically inactive but butane-2-ol is optically active.  (iii) Chloroform is stored in closed dark coloured bottles.  **8. CASE STUDY.**  **PASSAGE-1**  Nucleophilic Substitution  Nucleophilic Substitution reaction of haloalkane can be conducted according t to both S1 and S21 Sul is a two step reaction while S2 is a single step reaction. For any haloalkane which mechanism is follow depends on factors such as structure of haloalkane which mechanism is followed depends on factors such as struct of haloalkane, properties of leaving group, nucleophilic reagent and solvent. Influences of solvent polarity:  In SN1 reaction, the polarity of the system increases from the reactant to the transition state, because a polar solvent has a greater effect on the transition state than the reactant, thereby reducing activation energy and accelerating the reaction. In S2 reaction, the polarity of the system generally does not change from the reactant to the transition state and only charge dispersion occurs. At this time, polar solvent has a grea stabilizing effect on Nu than the transition state, thereby increasing activation energy and slow down the reaction rate. For example, the decomposition rate (S1) of tertiary chlorobutane at 25 °C in water (dielectric constant 79) and is 300000 times faster than in ehtanol (dielectric constant 24). The reaction reate (S2) of 2-Bromopropane NaOH in ethanol containing 40% water is twice slower than in absolute ethanol. Hence the level of solvent polarity has influence on both SI and S2 reaction, but with different results. Generally speaking weak polar solvent is favourable for S2 reaction, while strong polar solvent is favourable for S₁1. Generally speaking the substitution reaction of tertiary haloalkane is based on SN1 mechanism in solvents with a strong polarity.  ANSWER THE FOLLOWING QUESTIONS   1. Why racemisationoccurs in SN1 ? 2. Why is ethanol less polar than water ? 3. Arrange the following in the increasing order of their reactivity towards SN1 reactions   (i) 2-Bromo-2-methylbutane, 1-Bromopentane, 2-Bromopentane  (ii) 1-Bromo-3-methylbutane, 2-Bromo-2-methylbutane, 2-Bromo-3-methylbutane.  **PASSAGE-2**  Grignard reagents are alkyl magnesium halides. Due to large electronegativity difference between carbon and magnesium, the carbon-magnesium bond has significant ionic character. The hydrocarbon part of the Grignard magents acts as a source of carbanions. Therefore, Grignard reagents readily undergo nucleophilic addition reactions taldehydes and ketones forming the addition products which upon hydrolysis yield alcohols.   1. What will be the product formed when chlorobenzene reacts with magnesium in presence of dry ether? 2. Write the structure of B in the following reactions.   **ART INTEGRATED**:  Make Models of organic compounds like phenol, aniline, benzoic acid, benzaldehyde , nitrobenzene, , Salicylic acid, Saliceldehyde, pr any of your choice. |  |
|  | **DAV PUBLIC SHOOL, NTPC UNCHAHAR**  **SUMMER BREAK ASSIGNMENT 2024-25**  **CLASS XII Sub- Physics**   1. State and Explain Coulomb’s law in Vector form. 2. Which instruments is used to detect the presence of electric charge in an object. Also, Explain about his working with diagram. 3. Derive the expression of drift velocity of an electric moving inside a conductor of length ‘l’ and area of cross section ‘A’ under the effect of electric field E. 4. Derive the relation between Electric field and Potential Gradient. 5. What is equipotential surface? Write its four properties. 6. Derive the expression for capacitance of a capacitor when a dielectric slab partially filled the space between the plates of that capacitor. 7. How resistivity of a conductor depends upon the number density of electron and relaxation time? 8. **Case Study Question-**   **According to Ohm's law, the current flowing through a conductor is directly proportional to the potential difference across the ends of the conductor i.e I ∝ V ⇒ V/ I = R, where R is resistance of the conductor Electrical resistance of a conductor is the obstruction posed by the conductor to the flow of electric current through it. It depends upon length, area of cross-section, nature of material and temperature of the conductor.**  We can write R∝l/A or R=ρl/A,Where ρ is electrical resistivity of the material of the conductor  (i) Dimensions of electric resistance i  (a) [ML2 T−2 A−2] (b) [ML2T−3A−2] (c) [M−1 L−2 T−1 A] (d) [M−1L2T2A−1]  (ii) If 1μA current flows through a conductor when potential difference of 2 volt is applied  across its ends, then the resistance of the conductor is  (a) 2×106Ω (b) 3×105Ω (c) 1.5×105Ω (d) 5×107Ω  (iii) Specific resistance of a wire depends upon  (a) length (b) cross-sectional area (c) mass (d) none of these  (iv) The slope of the graph between potential difference and current through a conductor is  (a) a straight line (b) curve (c) first curve then straight line (d) first straight line then curve  (v) The resistivity of the material of a wire 1.0 m long, 0.4 mm in diameter and having a  resistance of 2.0 ohm is  (a) 57×10−6Ωm (b) 5.25×10−7Ωm (c) 7.12×10−5Ωm (d) 2.55×10−7Ωm  9. Electric field strength is proportional to the density of lines of force i.e., electric field strength at a point is proportional to the number of lines of force cutting a unit area element placed normal to the field at that point. As illustrated in given figure, the electric field at P is stronger than at Q.  https://i0.wp.com/physicsgurukul.com/wp-content/uploads/2021/03/image.png?resize=459%2C227&ssl=1  **(i) Electric lines of force about a positive point charge are** (a) radially outwards (b) circular clockwise (c) radially inwards (d) parallel straight lines  **(ii) Which of the following is false for electric lines of force?** (a) They always start from positive charge and terminate on negative charges.  b) They are always perpendicular to the surface of a charged conductor. (c) They always form closed loops. (d) They are parallel and equally spaced in a region of uniform electric field.  **(iii) Which one of the following patterns of electric line of force is not possible in field due to stationary charges?**  https://i0.wp.com/physicsgurukul.com/wp-content/uploads/2021/03/image-1.png?resize=712%2C97&ssl=1  **(iv) Electric field lines are curved**  (a) in the field of a single positive or negative charge  (b) in the field of two equal and opposite charges. (c) in the field of two like charges. (d) both (b) and (c)  **(v) The figure below shows the electric field lines due to two positive charges. The magnitudes EA, EB and EC of the electric fields at point A, B and C respectively are related as**  https://i0.wp.com/physicsgurukul.com/wp-content/uploads/2021/03/image-2.png?resize=234%2C126&ssl=1  (a) EA>EB>EC (b) EB>EA>EC (c) EA=EB>EC (d) EA>EB=EC  10. Project- (i) Make an Electrical switch board (Fiber Board) by Using Two 6 Ampere Switch,16 Ampere Two Socket ,Voltmeter, Ammeter and Indicator.  (ii) Prepare a list of 10 Scientist who got Noble Prize in the field of Physics. Also Write  about 5 Scientist in 500 words and also paste their Color Photograph in Transparent  file with A4 size paper . |  |
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|  | **D A V PUBLIC SCHOOL, NTPC, UNCHAHAR, RAEBARELI**  **SUMMER BREAK ASSIGNMENT (2024-25)**  **CLASS – XII (Physical Education)**  1. Describe the different categories of activities that can be part of intramural competition.  2. In which conditions knockout tournaments are better than wrong Robin.  3. State the duties of physical education teacher for organizing the sports tournament in any instruction.  4. Staying healthy and active is indirectly proportioned to the good Or bad posture one adopt.Comment.Why good posture is important? Discuss.  5. What are the primary factors contributing to postural deformities in children and adolescents?  6. Knockout cum league fixture of 15 teams.  7. Many children Suffer from Postural deformities .These can be corrected if recognized early and treated properly.Guneet had deformity in his spine Which caused him to bend forward and his knees touched each other while he stood straight  a) What are spine deformities and what are their types?  b) What was the Possible deformity Guneet had and how can it be corrected?  c) What was his possible knee problem?  8. ABC School is one of the reputed schools in their location for the number of sports facilities it provides to its stakeholders. Keeping that in consideration CBSE Sports cell has given them the responsibility of conducting CBSE Football cluster.35 teams have sent their entry for participation in the tournament.  A. Due to large number of teams willing to participate, the school is conducting the  competition by\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fixture.  B. The number of Matches in the first round will be\_\_\_\_\_\_\_\_\_\_  C. Total number of rounds will be\_\_\_\_\_\_\_\_\_\_\_\_  D. Total number of matches will be\_\_\_\_\_\_\_\_\_\_\_\_  E. Total number of byes in the fixture will be \_\_\_\_  F. Total number of byes in lower half will be \_\_\_\_\_  9. State the reasons of less participation of women in sports.  10.make a flow chart of vitamins or minerals with their scientific name , sources and functions on chart paper. |  |
|  | **DAV PUBLIC SHOOL, NTPC UNCHAHAR**  **SUMMER BREAK ASSIGNMENT 2024-25**  **CLASS XII SUBJECT- BIOLOGY**   1. A bilobed, dithecous anther has 100 microspore mother cells per microsporangium. How many male gametophytes this anther can produce? 2. (a) Write the specific location and the functions of the following cells in human males:   (i) Leydig cells  (ii) Sertoli cells  (iii) Primary spermatocyte (b) Explain the role of any two accessory glands in human male reproductive system.  3.i) Where do the signals for parturition originate from in humans?  ii) Why is it important to feed the newborn babies on colostrum?  4.a) Name the structure.  b) The embryo with 8-32 blastomere is called \_\_\_\_\_\_\_\_  c) What is the fate of the trophoblast and inner cell mass?    5.a) What will be the Phenotype ratio in F2 generation  b) What will be the genotype ratio?  c) T and t are separated during gamete formation. What is it called?    6. Study the pedigree chart and comment whether it is  a) Autosomal or Sex linked  b) Dominant or recessive    7. What is amniocentesis and why there is a statutory ban on it ?  8. Given below is an enlarged view of one microsporangium of a mature anther.  Observe the diagram and answer the questions given below.    IMG_20240507_131133_841   1. An anther with malfunctioning tapetum often fails to produce viable male gametophyte. Give one reason. 2. The meiocyte of rice has 24 chromosomes. How many chromosomes are present in its endosperm and egg cell.Why ? 3. State the function of tapetumand endothecium in the anther.   9.Study the figures given below and answer the questions that follow.  I:\data0\data0\XII Bio pics for QP\drosophila dihybrid cross.jpeg  *(i)* In a dihybrid cross, when would the proportion of parental gene combinations be much higher than non-  parental types, as experimentally shown by Morgan and his group?  *(ii)* If two genes are located far apart from each other on a chromosome, how the frequency of recombination  will get affected?  *(iii)* Name the scientist who performed this experiment and also name the organism on which he performed  his experiment.  10. Prepare a project on any two of the following topic, using ‘Art Integration’.  (i) T.S. of Anther (ii) Megasporogenesis (iii) Embryo- sac  (iv) Oogenesis (v) Spermatogenesis  (vi) T.S. of human ovary showin various follicular development stages |  |
|  | **DAV PUBLIC SCHOOL, NTPC UCNHAHAR**  **CLASS – XII, SUBJECT –IT**  **HOLIDAYS ASSIGNMENTS**  **SESSION- 2024-25**  Q.1 List the capitalization rules in English language.  Q.2 Briefly discus the importance of positive attitude.  Q.3 Draw any two common signs used for visual communication.  Q.4 Mention any two steps to overcome personality disorders.  Q.5 Difference between Menu bar and Tool bar with examples.  Q.6 Explain some advanced features of digital presentation.  Q.7 Define the Relational schema and a relation.  Q.8 Mention the different languages present in DBMS.  Q.9 Explain the concept of a Primary Key and Foreign Key with an example.  Q.10 Describe the function of ALU and CU. |  |

**CLASS –XII (PCM)**

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|  | **DAV PUBLIC SCHOOL NTPC UNCHAHAR**  **Summer Break Assignment 24-25**  **Class XII (English Core).**  Your school DAV PUBLIC SCHOOL is organizing, English Writing Skills Week, students of classes XI and XII can participate in it, mentioning the details draft a suitable notice for the school notice board.  2. You are Rohit of 36, Model Town, Lucknow, you have recently purchased an apartment. You are going to organise a house warming ceremony, mentioning the details write an informal invitation to your friend Lalit.  3. You are Akash of 124 B, Pratap Nagar, Raebareli, you come across a situation vacant of software Engineer in Infrared Cyber Solutions Ltd., Bengaluru, write a job application mentioning your qualifications and experience, insert a brief biodata.  4. Write the themes and poetic Devices of the poems of the poem ' My Mother at Sixty Six' and 'Keeping Quiet.'  5. The poet Pablo Neruda advocates the necessity of keeping quiet. How can suspension of activities bring harmony and peace to the world? Write your views in not more than 150-180 words.  6. Prepare a group survey Report based on the given topics.  7. Your school organized a farewell ceremony for the students of class XII, covering the event write a report in 150-180 words.  8. Revise the summary of the chapters, Deep water and The Rattrap. |  |
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**CLASS-XII COMMERCE**

**PHYSICAL EDUCATION**

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|  | **D A V PUBLIC SCHOOL, NTPC, UNCHAHAR, RAEBARELI**  **SUMMER BREAK ASSIGNMENT (2024-25)**  **Class 12th**  **BUSINESS STUDIES**  **Short Questions**  **1.** Due to the unreliable availability of electricity in rural areas, XYZ Power Ltd. established a plant for the production of solar lights in a far-off village. The company’s earnings were enough to pay for the costs and risks. The corporation chose to raise production because there was a rising daily demand for lanterns, which would lead to larger sales. Since there weren’t many jobs in the area, they chose to hire people from the adjacent villages for this. The business also made the decision to open day care centres and schools for the kids of its employees.  (i) List and describe the aforementioned managerial goals.  (ii) Name two values that the business wished to convey to society.  **2.**Explain why is it said that principles of management are 'mainly behavioural' and 'contingent' in nature. Also explain how principles of management ‘provides managers with useful insights into reality' and 'helps in thoughtful decision-making'.  **3** .An environmental conscious multinational company "AXN Ltd." follows certain well defined business principles that result in minimizing employee turnover. Following are some of the important environmental factors followed by 'AXN Ltd.'   1. Honour the law of every country in which it operates 2. Respect the culture and customs of all nations. 3. Provide clean and safe products to enhance the quality of life throughout the world 4. Develop a culture in the company that enhances individual creativity and teamwork while honouring mutual trust and respect between management and labour.   **4 ‘**Accent Electronics Ltd.’ was operating its business in Malaysia. The company started exporting its products to India when the Prime Minister announced relaxation in import duties on electronic items. The company appointed retailers in India who had direct on-line links to the suppliers to replenish stocks when needed. Identify and explain the dimensions of the business environment discussed in the above case.Identify and explain the dimensions of the business environment discussed in the above case.  **Long Question**  **1** Briefly discuss the impact of government policy changes on the business and industry.  **2** Explain the features of the principles of Management.  **3**A company manufacturing mobiles is facing the problem of decreasing sales in the market. You can imagine any product about which you are familiar. What decisions/ steps each level of management should take to give effect to this decision?  **CASE BASED QUESTIONS**  **1**I) The directors of XYZ limited, an organization manufacturing computer, wants to double the sales and have given the responsibility to the sales manager. The sales manager has no authority either to increase sales expense or appoint new salesmen. Hence, he could not achieve this target. Identify the principle violated in this situation.  II) Hina& Hitesh are typists in a company having the same educational qualification. Hina is getting Rs. 3000 per month and Hitesh is getting Rs 4000 per month as salary for the same work hours. Which principle of management is violated in this case? Name the principle and explain it.  **2**Alpha Beta Inc. decided to go for perfect coordination in the various aspects of the company. They focus on synchronization of all the activities of the organisation. For this they know coordination will be the key. At the stage of thinking of what is to be done throughout the year they decide to take into consideration the harmony between the goals of the organisation and those of the individual departments. When they hire employees they pay them only after evaluating their worth in terms of how efficient they are. Finally when the last month of production comes they, time and again check the deviation between the set targets and the actual production done.In the above paragraph the main focus is on coordination. However various functions of management also come into picture. You have to identify the three functions of management highlighted above in which coordination can be seen.  **Project based assignment**  Additionally few tricks and tips to prepare Business Studies Project Class 12 are given below.  **1. Handwritten TOC (Table of Content).**  It is important for any students to understand that the table of content for Business Studies Project for Class 12 should be written by hand and not typed or printed.  **2.  Distinct Handwriting**  Content written by hand must be clear and neat, so the examiner can read the content properly. A neat project can secure students excellent marks.  **3. Submit in Spiral Bound**  Make sure that the project is submitted neatly attached in a spiral-bound book.  **4. Project Format**  The formatting of a project should be in a file set up.  **5. Size of the paper**  The overall project has to be hand-written and the size of the paper should be A4.  **6. Check Notes Alignment**  Project notes have to be written only on the science project paper, on the ruled side and not on the blank pages.  **7.  Headers**  Leave the same portion margin on the Bottom, Top, left, and right of the project page.  **8. Number each Pages**  The entire project needs to have numbers.  **9. Tables and Numbers**   * The entire mentioned tables and numbers must be arranged in the middle of the page, categorized with the numbers, titles, and required labels.   **10. Classification of the Project**  The outer and the first cover of the project should have the title/heading, along with student information including school name and the year.   * Acknowledgement * Certificate (if you have any) * Table of contents * Topic and Introduction  with a suitable heading * Newspaper cuttings (If Any) * Summary/Conclusion of the project * Bibliography * Teachers Remarks and Observation   **TOPICS**   * **ROLL NUMBER 1-5** * Marketing * **ROLL NUMBER 6-10** * Principle of management * **Roll Number 11-15** * Stock Exchange * **Roll NUMBER 16-20** * Marketing Strategy | |  |
|  | **D A V PUBLIC SCHOOL, NTPC, UNCHAHAR, RAEBARELI**  **SUMMER BREAK ASSIGNMENT (2024-25)**  **Class 12th**  **Accountancy**  **Short Questions**  **1**In the absence of Partnership Deed, what are the rules related to :(a) Salaries of partners,(b) Interest on partners’ capitals(c) Interest on partners’ loan(d) Division of profit, and(e) Interest on partners’ drawings  **2**A and B are partners. A’s Capital is ₹ 1,00,000 and B’s Capital is ₹ 60,000. Interest on capital is payable @ 6% p.a. B is entitled to a salary of ₹ 3,000 per month. Profit for the current year before interest and salary to B is ₹ 80,000.Prepare Profit and Loss Appropriation Account.  **3**Anita and Ankita are partners sharing profits equally. Their capitals, maintained following the Fluctuating Capital Accounts Method, as on 31st March, 2018 were ₹ 5,00,000 and ₹ 4,00,000 respectively. Partnership Deed provided to allow interest on capital @ 10% p.a. The firm earned net profit of ₹ 2,00,000 for the year ended 31st March, 2019.Pass the Journal entry for interest on capital.  **4**Bharat and Bhushan are partners sharing profits in the ratio of 3: 2. They decided to admit Manu as a partner from 1st April, 2019 on the following terms:(i) Manu will be given 2/5th share of the profit.  (ii)Goodwill of the firm will be valued at two years’ purchase of three years’ normal average profit of the firm. Profits of the previous three years ended 31st March, were:2019 – Profit ₹ 30,000 (after debiting loss of stock by fire ₹ 40,000).2018 – Loss ₹ 80,000 (includes voluntary retirement compensation paid ₹ 1,10,000).2017 – Profit ₹ 1,10,000 (including a gain (profit) of ₹ 30,000 on the sale of fixed assets).Calculate the value of goodwill.  **Long Question**  **1**.Mita and Usha are partners in a firm sharing profits in the ratio of 2 : 3. Their Capital Accounts as on 1st April, 2015 showed balances of ₹ 1,40,000 and ₹ 1,20,000 respectively. The drawings of Mita and Usha during the year 2015-16 were ₹ 32,000 and ₹ 24,000 respectively. Both the amounts were withdrawn on 1st January 2016. It was subsequently found that the following items had been omitted while preparing the final accounts for the year ended 31st March, 2016:  (a) Interest on Capital @ 6% p.a.(b) Interest on Drawings @ 6% p.a.  (c) Mita was entitled to a commission of ₹ 8,000 for the whole year.Showing your working clearly, pass a rectifying entry in the books of the firm  **2**A, B and C are partners sharing profits and losses in the ratio of 5: 4 : 1. Calculate new profit-sharing ratio, sacrificing ratio and gaining ratio in each of the following cases:  Case 1. C acquires 1/5th share from A.  Case 2. C acquires 1/5th share equally form A and B.  Case 3. A, B and C will share future profits and losses equally.  Case 4. C acquires 1/10th share of A and 1/2 share of B**.**  **3**X, Y and Z are partners sharing profits and losses in the ratio of 5 : 3 : 2, decided to share future profits and losses equally with effect from 1st April, 2019. On that date, the goodwill appeared in the books at ₹ 12,000. But it was revalued at ₹ 30,000. Pass Journal entries assuming that goodwill will not appear in the books of account.  **CASE BASED QUESTIONS**  **1**Following differences have arisen among P, Q and R. State who is correct in each case:  (a) P used ₹ 20,000 belonging to the firm and made a profit of ₹ 5,000. Q and R want the amount to be given to the firm?  (b) Q used ₹ 5,000 belonging to the firm and suffered a loss of ₹ 1000. He wants the firm to bear the loss?  (c) P and Q want to purchase goods from A Ltd., R does not agree?  (d) Q and R want to admit C as a partner, P does not agree?  **2**P, Q and R are in a partnership and as of 1st April, 2018 their respective capitals were: ₹ 40,000, ₹ 30,000 and ₹ 30,000. Q is entitled to a salary of ₹ 6,000 and R ₹ 4,000 p.a. payable before division of profits. Interest is allowed on capital @ 5% p.a. and is not charged on drawings. Of the divisible profits, P is entitled to 50% of the first ₹ 10,000, Q to 30% and R to 20%, rest of the profit are shared equally. Profits for the year ended 31st March, 2019, after debiting partners’ salaries but before charging interest on capital was ₹ 21,000 and the partners had drawn ₹ 10,000 each on account of salaries, interest and profit.  Prepare Profit and Loss Appropriation Account for the year ended 31st March, 2019 showing the distribution of profit and the Capital Accounts of the partners.  **PROJECT BASED ASSIGNMENT** **Here are some of the best Accountancy Project ideas for the Class 12 students:**  * Ledger Account(ROLL NUMBER 1-3) * Journal Entries (ROLL NUMBER 4-7) * Balance Sheet (ROLL NUMBER 8-10) * Trial Balance (ROLL NUMBER 11-13) * Trading and Profit and Loss Account ( RoLL NUMBER 14-17) * Ratios Roll NUMBER 18 * Cash Flow Statement ROLL NUMBER ( 19-20)  Accountancy Project Guidelines A few things that students should take into consideration while doing the accountancy project are mentioned below.   1. Know your topic in-depth 2. Try to choose a topic that is interesting to do and review for the reviewer. Don’t make to too long 3. Keep it crisp and precise. Every information written in the project should relate to the topic 4. Focus on the special attributes of the project 5. Cross-check with the professor for the guidelines | |  |
|  | **D A V PUBLIC SCHOOL, NTPC, UNCHAHAR, RAEBARELI**  **SUMMER BREAK ASSIGNMENT (2024-25)**  **CLASS – XII (ECONOMICS)**  1. ‘’ Circular flow principle is based on the assumption that one’s expenditure will become other’s Income.’’ Explain the given statement.  2. All machines are capital goods. Defend or refute the statement.  3. ‘Real Gross Domestic Product is a better indicator of economic growth than Nominal Gross Domestic Product. ’Do you agree with given statement? Support your answer with a suitable numerical example.  4. If in a locality, a new park is developed by the municipal corporation, it will have externalities both positive and negative. State one example each of both types of externalities with reason.  5. GDP may not be an appropriate index of welfare of the people. How?  6. Giving valid reasons, explain how the following would be treated while estimating National income:  (i) Payment of indirect taxes by a firm.  (ii) Purchase of goods by foreign tourists.  7. Will the following factor income be included in domestic factor income of India? Give reasons For your answers:  (i) Payment of fee to a charted accountant by a firm.  (ii) Rent received by an Indian resident from Russian embassy in India.  (iii) Compensation given by insurance company to an injured worker.  8. Giving reasons, classify the following into intermediate goods and final goods:  (i) A refrigerator purchased by a household  (ii) Wood used for making a dining-table by the carpenter  (iii) An air conditioner purchased by a builder for his office.  9. Giving reasons, classify the following into stock and flow:  (i) Capital formation.  (ii) Population of a country.  (iii) A car covering a distance of 300 km in 5 hours.  10. Write down the formula of different methods of national income on a chart paper. | |  |
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|  | **D A V PUBLIC SCHOOL, NTPC, UNCHAHAR, RAEBARELI**  **SUMMER BREAK ASSIGNMENT (2024-25)**  **CLASS – XII (Physical Education)**  1. Describe the different categories of activities that can be part of intramural competition.  2. In which conditions knockout tournaments are better than wrong Robin.  3. State the duties of physical education teacher for organizing the sports tournament in any instruction.  4. Staying healthy and active is indirectly proportioned to the good Or bad posture one adopts. Comment. Why good posture is important? Discuss.  5. What are the primary factors contributing to postural deformities in children and adolescents?  6. Knockout cum league fixture of 15 teams.  7. Many children Suffer from Postural deformities .These can be corrected if recognized early and treated properly. Guneet had deformity in his spine Which caused him to bend forward and his knees touched each other while he stood straight  a) What are spine deformities and what are their types?  b) What was the Possible deformity Guneet had and how can it be corrected?  c) What was his possible knee problem?  8. ABC School is one of the reputed schools in their location for the number of sports facilities it provides to its stakeholders. Keeping that in consideration CBSE Sports cell has given them the responsibility of conducting CBSE Football cluster.35 teams have sent their entry for participation in the tournament.  A. Due to large number of teams willing to participate, the school is conducting the competition by\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fixture.  B. The number of Matches in the first round will be\_\_\_\_\_\_\_\_\_\_  C. Total number of rounds will be\_\_\_\_\_\_\_\_\_\_\_\_  D. Total number of matches will be\_\_\_\_\_\_\_\_\_\_\_\_  E. Total number of byes in the fixture will be \_\_\_\_  F. Total number of byes in lower half will be \_\_\_\_\_  9. State the reasons of less participation of women in sports.  10. Make a flow chart of vitamins or minerals with their scientific name , sources and functions on chart paper. | |  |
|  | **DAV PUBLIC SCHOOL NTPC UNCHAHAR**  **Summer Break Assignment 24-25**  **Class XII English Core**  Your school DAV PUBLIC SCHOOL is organizing,English Writing Skills Week, students of classes XI and XII can participate in it, mentioning the details draft a suitable notice for the school notice board.  2. You are Rohit of 36, Model Town, Lucknow, you have recently purchased an apartment. You are going to organise a house warming ceremony, mentioning the details write an informal invitation to your friend Lalit.  3. You are Akash of 124 B, Pratap Nagar, Raebareli, you come across a situation vacant of software Engineer in Infrared Cyber Solutions Ltd., Bengaluru, write a job application mentioning your qualifications and experience, insert a brief biodata.  4. Write the themes and poetic Devices of the poems of the poem ' My Mother at Sixty Six' and 'Keeping Quiet.'  5. The poet Pablo Neruda advocates the necessity of keeping quiet. How can suspension of activities bring harmony and peace to the world? Write your views in not more than 150-180 words.  6. Prepare a group survey Report based on the given topics.  7. Your school organised a farewell ceremony for the students of class XII, covering the event write a report in 150-180 words.  8. Revise the summary of the chapters, Deep water and The Rattrap.  **DAV PUBLIC SCHOOL, NTPC UCNHAHAR**  **CLASS – XII, SUBJECT –IT**  **HOLIDAYS ASSIGNMENTS**  **SESSION- 2024-25**  Q.1 List the capitalization rules in English language.  Q.2 Briefly discus the importance of positive attitude.  Q.3 Draw any two common signs used for visual communication.  Q.4 Mention any two steps to overcome personality disorders.  Q.5 Difference between Menu bar and Tool bar with examples.  Q.6 Explain some advanced features of digital presentation.  Q.7 Define the Relational schema and a relation.  Q.8 Mention the different languages present in DBMS.  Q.9 Explain the concept of a Primary Key and Foreign Key with an example.  Q.10 Describe the function of ALU and CU. |  | | |