

PALLAVAN UPV , JHALAWAR
SUMMER ASSIGNMENT
CLASS IX – BIOLOGY

1. Define Nucleus.
2. Define Osmosis and diffusion.
3. Define Hypotonic, Isotonic and Hypertonic solutions.
4. Draw the structure of plant cell and animal cell.
5. Write short notes on cell organelles.
6. Who discovers the cell?
7. Who discovered the living cell?
8. Draw the structure of any four cell organelles.
9. Write the characteristic features of Arthropoda, Mollusca, Echinodermata, Annelida and Nematoda.
10. Define five kingdom classification.

MATHS

1. Solve the questions with complete solution:
Ex-1.1 – Q 2,3 ex-1.2- Q 1,3 ex-1.3- Q 5 ex-1.4- Q 2 ex-1.6- Q 3
Ex-2.1-Q3 ex-2.2- Q1,3 ex-2.3- Q3 ex-2.4- Q3,4,5 ex 2.5 -Q3,5,7,8,11,12,15
EX-12.1- Q 2,4,5,6 EX-12.2-Q 3, 4, 7
2. SIMPLIFY the extra problems provided in the class
3. Draw the graph of $2x+y=6$ and $2x-y+2=0$. Shade the region bounded by these lines and x-axis. Find the area of the shaded region.

Chemistry
(Atomic Structure)

- Q1. Explain with examples.
- (a) Atomic Number
 - (b) Mass Number
 - (c) Isotopes
- Q2. If bromine atom is available in the form of say, isotopes ${}_{35}\text{Br}^{79}$ (49.7%) ${}_{35}\text{Br}^{81}$ (50.3%) calculate the average atomic mass of Bromine atom.
- Q3. The average atomic mass of a sample of an element X is 16.2U what are the percentage of isotopes ${}_8\text{X}^{16}$ & ${}_8\text{X}^{18}$ in the sample.
- Q4. Define isobar with suitable example.

PHYSICS

CHAPTER – MOTION

- 1) Under what conditions is the magnitude of average velocity of an object equal to its average speed? 2) What can you say about motion of an object whose distance time graph is a straight line parallel to the time axis?
- 3) What is the quantity which is measured by the area occupied below velocity-time graph?
- 4) Draw a velocity –time graph of a stone thrown vertically upwards and then coming downwards after attaining the maximum height.
- 5) What is the numerical ratio of average velocity to average speed of an object when it is moving along a straight path?
- 6) What can you say about motion of an object if its speed-time graph is a straight line parallel to the time axis?

- 7) A car moves with a speed of 30km/h for half an hour, 25km/h for one hour and 40km/h for two hours. Calculate the average speed of the car
- 8) A marble rolling on a smooth floor has an initial velocity of 0.4m/s. If the floor offers a retardation of .02m/s², calculate the time it will take to come to rest.
- 9) A train starting from a railway station and moving with a uniform acceleration attains a speed of 40km/h in 10 minutes. Find its acceleration in m/s².
- 10) A train 100m long is to cross a river of bridge of length 800m. What time will it take to cross the bridge? The train moves with a constant velocity of 36km/h.
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SUMMER ASSIGNMENT FOR CLASS IX Social Science

1. Write a short biography of Napoleon Bonaparte.
 2. Explain why the artist has portrayed the nobleman as the spider and the peasant as the fly.
 3. Describe the circumstances leading to the outbreak of revolutionary protest in France.
 4. Draw up a list of democratic rights we enjoy today whose origins could be traced to the French Revolution.
 5. What do you mean by the factors of production? Explain.
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computer

Q.1 Make a chart of Computer System including the flow of data (How the computer is work).

Q.2 Write down the short note on the following:

- a. RAM b. ROM c. HDD c. OPTICAL DISK'S

Q.3 What is software? Explain types of software with example?

English Literature

1. What did Tommy find and where?
 2. Why did Margie think that the old schools were better than hers?
 3. What is the role of County Inspector?
 4. Compare the contrast of Human Teacher and Robot teacher (Which Tommy and Margie had).
 5. Why did Margie not believe that a human can be a teacher?
 6. Why did Tommy and Margie think that the old books were a waste of resources?
 7. How was one path different from the other? (The road not taken)
 8. When the poet one of the paths what did he hope to do?
 9. Does the poet regret his decision?
 10. Discuss the significance of the title 'The Road Not Taken'?
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Subject-Hindi

Summer Assignment Subject Teacher- Sunita Sen

1. वर्ण विचार का चार्ट बनाए –
2. सन्त कवि रैदास के बारे में जानकारी प्राप्त करके लिखें व उनकी रचनाओं का संकलन करें व लिखें।
3. संवाद लिखे—
परीक्षा परिणाम पर माँ बेटी पर लगभग 300 शब्दों में संवाद लिखें।

