

Trust Serve and Love

**ST. TERESA SCHOOL**

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 Plot No. 12, Shakti Khand-II, Indrapuram, Ghaziabad (U.P.)

St. Teresa School

A Temple of Learning

Shakti Khand – II, Indrapuram, Ghaziabad

Holiday Assignment (2018-19)

Class: IX

English

1. Read the passage and answer the questions that follow:

Dharam Dev Pishorimal Anand (26 September 1923 - 3 December 2011), better known as Dev Anand, was an Indian film actor, writer, director and producer known for his work in Hindi cinema. Part of the Anand family, he co-founded Navketan Films in 1949 with his elder brother Chetan Anand. The Government of India honoured him with the Padma Bhushan in 2001 and the Dadasaheb Phalke Award in 2002 for his contribution to Indian cinema. His career spanned more than 65 years with acting in 114 Hindi films of which 104 have him play the main solo lead hero and he did 2 English films.

Dev Anand's autobiography "Romancing with life" appears to be a very honest portrayal of the man called Dev Anand. This article is composed on the basis of revelations recorded in his life story. Being a very shy boy Dev's father put him up in a girl's school in Gurdaspur. It is obvious that Dev had a very captivating face. As a child Dev was fond of playing with marbles on the street outside his house. He was an excellent marksman from any distance. He was always sure of hitting every marble that he aimed for. Due to his marksmanship, he had won several marbles and stored those in a big jar, which was his proud possession. His father hated him for playing all day with marbles. Dev was afraid of his father. One day his father admonished him for playing with the marbles all the time. He said that this was not the way to attain stature in life. But he loved his mother very much. While Dev was still in Gurdaspur, his mother developed Tuberculosis, a fatal disease during those days.

The rare medicines necessary for her treatment were unavailable in Gurdaspur. Dev and friend Bhagoo used to go to Amritsar, more than thirty miles away from Gurdaspur, by bus to bring medicines for the treatment of his mother. Dev was fond of a special "Lassi" made from full fat milk, which used to have "Pedas" crushed into it. One sultry summer day Dev was sweating outside the Golden Temple in Amritsar. A Sikh gentleman was selling "Almond Sherbat". Dev put his hand forward to grab the tumbler of "Sherbat". The Sikh "Sherbatwala" saw the unique blessings of sun on Dev's forehead. He quickly said that some day he would be a big shot in life. Dev narrated this to his mother, who hugged him and told his father to give him the finest education and other facilities so that her son gets what he aspires for. His mother soon became too weak to walk even and was moved to a sanitarium, where she died. Dev was enrolled in Government College Lahore for his graduation, which he did with honours in English. But soon he discovered that his father had fallen on bad days. Dev wanted to go to England for higher education, so that he could get an elite government job on return to India, but his father admitted that he could not afford this. His father 13 ENGLISH IX gave him the option to do his master's degree from Lahore Government College and then serve as a clerk in a bank, which Dev declined.

Q1. Give a suitable heading for the above passage.

Q2. The name of Dev Anand's biography is _____.

Q3. In his childhood he loved playing _____ and he stored them in a _____ because they were his proud possession.

Q4. He travelled to Amritsar with his friend Bhagoo, which was thirty miles away from his home in order to _____.

Q5. The special lassi which Dev was particularly fond of was made of _____.

Q6. Dev could not go to England to pursue his higher education because _____.

Q7. The Sikh sherbatwala, outside the Golden temple, told Dev that he would _____.

2. Look at the words and phrases below. Rearrange them to form meaningful sentences.

- Mr. Shyam/ our/ has/ teacher/ a/ named/ Timmy/ cat
- park/ is/ a/ place/ walk/ for/ green/ good
- hall/ the/ down/ the/ all/ walked/ children.
- more /than/ are/ films/ studies/ important
- seeing/ is/ bad/ many/ films/ which/ you/ started/ have/ too

3. Complete the passage given below choosing the correct alternative:

3.1. When our earth was (a).....with water, all creatures (b) to swim in it. When the water subsided (c) land appeared, the sea creatures crawled (d)They learnt how to (e)and walk on the land. When these (f) not enough plants left to eat, they learnt to hunt and kill for their food.

- (a) cover; covers; covering; covered
 (b) has; have; had; having
 (c) but; and; so; why
 (d) in; out; along; through
 (e) breathe; breathes; breathed; breathing
 (f) is; are; was; were

3.2 Oats are a species (a)..... cereal grains. Oat consumption (b)human beings dates back(c)400 B.C. Oats are mainly consumed (d).....a breakfast food(e)..... snack product. Oats are a valuable source of carbohydrates (f)..... provides calories of energy.

- (a) with; of; in; for
 (b) in; for; by; with
 (c) service; from; hence; to
 (d) by; as; in; with
 (e) and; but; or; for
 (f) who; which; those; whose

Q. 4.The following passage has not been edited. There is one error in each of the line. Write the incorrect word and the correction

| | | Error | Correction |
|--|--|--|--|
| The passenger were waiting at the station when five policemen rushing into difference compartments of a train. After sometimes one of them comes out with two young men and soon the other policemen joined her. | (a)..... (b)..... (c)..... (d)..... (e)..... (f)..... | | |
| The men which had been arrested was been caught for a theft. | (g)..... (h)..... | | |

Q.5. Revise the complete syllabus of P.T. 1 Exams scheduled in July.

Hindi

प्रश्न 1 -सात दिनों के हिंदी समाचार पत्रों को पढ़कर निम्नलिखित कार्य कीजिये-

क- अनुस्वार अनुनासिक अर्धचन्द्राकार व नुक्ता युक्त 15 15 शब्द छांट कर लिखिए

ख -15 शब्द छांट उनका वर्ण विच्छेद कीजिए।

प्रश्न 2 - पिछले 20 वर्षों में हुई पाँच वैज्ञानिक खोजों एवं वैज्ञानिक उपकरणों की सूची बनाइए एवं मानव जीवन पर पड़ने वाले उनके प्रभाव को एक अनुच्छेद में लिखिए।

नोट -सम्पूर्ण कार्य ए 4 शीट पर कीजिए एवं फ़ाइल में संकलित कीजिए।

Sanskrit

' संस्कृत भाषा का वर्तमान में काल महत्व व आवश्यकता ' इस विषय पर एक परियोजना फाइल तैयार करें।

* संस्कृत भाषा के 40-50 तक नए शब्द चुनकर एक शब्दकोश तैयार करें।

Maths

NUMBER SYSTEM

1. If $(\sqrt{3}-1)/(\sqrt{3}+1) = x + y\sqrt{3}$, find the value of x and y .
2. Simplify: $\sqrt{3+2\sqrt{2}}$
3. Write reciprocal of $5+\sqrt{2}$
4. Solve for x : $2^3 x(5^0+3^{2x}) = 8\frac{8}{27}$
5. $(25)^{x-1} = 5^{2x-1} - 100$, find the value of x
6. Represent $\sqrt{10.5}$ on the number line
7. Write $1.2\dot{7}$ in the form $\frac{p}{q}$, where p, q are integers and $q \neq 0$
8. Convert $\frac{35}{16}$ into decimal form by long division method.
9. If $a^x = b^y = c^z$ and $b^2 = ac$, prove that $y = \frac{2xz}{x+z}$
10. If $27^x = \frac{9}{3^x}$ find x
11. Find the value of a : $6/(3\sqrt{2}-2\sqrt{3}) = 3\sqrt{2} - a\sqrt{3}$
12. If $(125)^x = 25/5^x$, find x
13. What is the value of $(\sqrt{162} + \sqrt{108})/(\sqrt{72} + \sqrt{48})$
14. Write 10 rational number between 6 & 7
15. Find 6 rational number between $3/5$ and $4/5$

POLYNOMIALS

1. Write in expanded form
 - (i) $\left(\frac{1}{3x} - \frac{2}{5y}\right)^3$
 - (ii) $(2x+4y)^2$
 - (iii) $(2a-4b+5)^2$
2. If $x+y=12$ and $xy=27$ find the value of x^3+y^3
3. Evaluate (i) $(1002)^3$ (ii) $(9.9)^2$
4. Find the product $(3x+2y) \begin{pmatrix} 9x \\ \vdots \\ \vdots \\ \vdots \end{pmatrix}$
5. Factorize
 - (i) $a^3 - 0.216$
 - (ii) $(x+1)^3 - (x-1)^3$
 - (iii) $x^9 - y^9$
 - (iv) $a^3 - 8b^3 - 64c^3$

6. If $(x+2k)$ is a factor of $F(x) = \frac{2}{6}x^2 + 2x + 3k + 3$ find k
 $x^4 - 4k^6$
7. If $p(x) = x^2 - 4x + 3$, evaluate $p(2) - p(-1) + p(1/2)$
8. Find the remainder when the polynomial $p(x) = x^4 - 3x^2 + 2x + 1$ is divided by $x-1$.
9. Show that $x + 1$ and $2x - 3$ are factors of $\frac{3}{2}x^3 - 9x^2 + x + 12$.
10. Find the value of k , if $x + 3$ is a factor of $3x^2 + kx + 6$
11. If both $x-2$ and $x - \frac{1}{2}$ are factor of $px^2 + 5x + r$, show that $p = r$
12. Factorize : $x^3 - 6x^2 + 11x - 6$
13. If $a = 5 + 2\sqrt{6}$ and $b = \frac{1}{a}$, then what will be value of $a^2 + b^2$?
14. Find the value of a , if $x-a$ is a factor of $x^3 - ax^2 - 2x + a - 1$
15. If $p(x) = x^2 - 2\sqrt{2}x + 1$ then find $p(2\sqrt{2})$

LINE and ANGLES

- Find the angle whose complement is equal to the angle itself.
- If the difference between two supplementary angles is 40° , then find the angles.
- An exterior angle of a triangle is 110° and its two interior opposite angles are equal, find each of these equal angles.
- If a ΔABC , $\angle A + \angle B = 110^\circ$, $\angle C + \angle A = 135^\circ$, find $\angle A$
- The angles of a triangle are in the ratio 6:7:2, find the angles of the triangle.
- Prove that if two lines intersect each other, then the vertically opposite angles are equal.
- The degree measure of three angles of a triangle are x , y and z . If $z = \frac{x+y}{2}$ then find the value of z .
- If $AB = x+3$, $BC = 2x$ and $AC = 4x-5$, then for what of ' x ', B lies on AC?
- Bisector of $\angle B$ & $\angle C$ of a triangle ABC intersect each other at the point O, prove that $\angle BOC = 90^\circ + \frac{1}{2} \angle A$
- Prove that the angle between internal bisector of one base angle and the external bisector of the other base angle of a triangle is equal to half of the vertical angle.

HERON'S FORMULA

- In a rectangular field of dimensions 60m x 50m, a triangular park is constructed. If the dimensions of the park is 50m, 45m and 35m, find the remaining field?
- The sides of a triangular field are 41m, 40m and 9m. Find the number of rose beds that can be prepared in the field, if each rose bed on an average needs 900cm² space.
- The lengths of sides of a triangle are 7cm, 13cm and 12cm. Find the length of perpendicular from the opposite vertex to the side whose length is 12cm.
- The area of trapezium is 475cm² and the height is 19cm, find the lengths of its parallel sides if one side is 4cm greater

than the other.

5. If each side of a triangle is doubled, then find the ratio of area of new triangle thus formed and the given triangle by using Heron's formula.
6. Find the area of the triangular field whose sides are 50m, 45m, 35m.
7. Find the sides of an isosceles right triangle of Hypotenuse $5\sqrt{2}$ cm.
8. Find area of a triangle, if the perimeter of a triangle is 36cm and its sides are in the ratio a:b:c = 3:4:5.
9. Find the area of $\triangle ABC$ in which $AB=4$ cm, $BC=5$ cm and $\angle A=90^\circ$.
10. The side of a rhombus is 10cm and one diagonal is 16cm. Find the area of rhombus.

Science

Biology:

Answer the following questions –

1. Name the two components of Plasma membrane.
2. Name the component of cell wall.
3. Name three unicellular organisms.
4. Name the intracellular source of digestive enzyme.
5. Name two structures found in plant cell but not in animal cells.
6. Name two structures found in animal cell but not in plants cells.
7. Name organelle involved in the formation of lysosomes .
8. Name organelle which is the storage sac of solid and liquid material.
9. Name organelle that serves as the channel for transportation between cytoplasm and nucleus.
10. Name the organelle associated with ribosome formation.
11. What are chromosomes made up of?
12. What is nucleus made up of?
13. Plasmolysis occurs in cell when it is kept in a solution.
14. Name organelles which contain DNA (other than nucleus).
15. Name the only cell organelle seen in prokaryotic cell.
16. The undefined nuclear region in the cytoplasm of prokaryotes is known as
17. A non – membranous cell organelle.
18. Full form of ADP and ATP.
19. What kind of plastids are found in leaves.
20. Plant cells become turgid when placed in solution .
21. Draw a well labelled diagram of:
 - a. Plant cell

b. Animal cell

22. Do the activity no. 6.1 given on page no. 69 in chapter 6 'Tissues' and record your observations for ten days. What do you infer from this activity.

Chemistry :

CH-1: Matter in our surroundings

Very short Answer Questions (1 mark)

1. Which diffuses faster: air or oxygen?
2. Which property of gas is used in supplying oxygen cylinders to hospitals?
3. What happens when the pressure under which dry ice is stored is decreased to 1 atmosphere?
4. Is temperature and heat means the same?
5. Why evaporation is called surface phenomenon?
6. At what temperature does solid ice and liquid water co-exist together?
7. Arrange the three states of matter in increasing order of their molecular force.

Short Answer Questions (2 marks)

8. Acetone gives more cooling effect than water when both are applied on palm. Explain.
9. Define boiling point. Give two factors on which it depends. Why is food cooked faster in pressure cooker?
10. Convert the following temperatures to
 - (a) Celsius scale (i) 313 K (ii) 370 K
 - (b) Kelvin scale (i) 23° C (ii) 73° C
11. What will happen when we start putting pressure and compress a gas enclosed in a cylinder? Do you think that increasing or decreasing the pressure and temperature can change the state of matter. Justify your answer with an example.

Short Answer Questions (3 marks)

13. Write the properties of gases.
14. Latent heat of evaporation of two liquids A and B is 100 J/kg and 150 J/kg respectively. Which one can produce more cooling effect and why ?
15. Give reasons for the following:
 - (a) A sponge is a solid but can be easily compressed.
 - (b) Clothes dry faster on a windy day.
 - (c) a rubber band can change its shape though it is a solid .
16. Name the process involved in the following changes:
 - (i) liquid→solid
 - (ii) gas→liquid
 - (iii) solid→gas
 - (iv) solid→liquid
17. What determine the state of a substance? Suggest a method to liquefy gases. Water droplets are observed on the outer surface of a glass tumbler containing ice cold water. Give reason.
18.
 - (a) Define evaporation
 - (b) Explain how the following factors affect the rate of evaporation of a liquid:

- (i) Temperature of the liquid.
- (ii) Area of the exposed surface.
- (iii) Moisture in the surrounding air.
- (iv) Increase in wind speed.

Long Answer Questions (5 Marks)

19. Write an experiment to show that temperature remains constant during melting.
20. (a) Define matter. Name the state of matter in which the forces between the constituent particles are:
- (i) Strongest, (ii) Weakest.
- (b) Give reasons for the following:
- (i) A liquid generally flows easily.
 - (ii) Ice at 0°C appears colder to the mouth than water at 0°C. Why?
 - (iii) Doctors advise to put strips of wet cloth on the forehead of a person having high temperature.

Social Science

PHYSICAL FEATURES OF INDIA

Answer the following questions:-

1. Distinguish between Khadar and Bhangar.
2. Define- Tributaries, Distributaries, Terai region, Attols, Duns, Barchans.
3. Describe the coastal plains of India.
4. What is the significance of Himalayas to India?
5. Write the characteristics of Himadri, Himachal and Shiwaliks.
6. Why is Peninsular plateau of India known as structure of minerals? Explain.
7. 'Each physiographic region of India complements the others and makes the country richer in its natural resource'. Explain.
8. How are riverine islands formed ?
9. Write any three characteristics of the Central Highlands.
10. Describe Doabs , Assam Himalayas, Punjab Plains, Kumaon Himalayas.
11. What do you know about 'Purvanchal'?
12. On an outline map of India mark the following- Makalu, The Aravali, the Khasi, Cardamom hills, Satpura Range, The Vindhya Range, Zaskar Range, Northern Circar, Andaman and Nicobar Islands, Dafla Hills, Mizo Hills.

French

Make a magazine in French.

&

Revise the syllabus.

FIT

Fill in the blanks:

- 1 is the medium which carries the message/information/sound etc. sent by the sender, and takes it to receiver's end.
- 2 is the storage brain of computer, which holds the data during processing.
- 3 computer types work with continuous physical quantities such as voltage, current, and temperature etc.
- 4 PARAM, PACE are the example of Computers.
- 5 is used to provide instructions to the computer so that it can perform certain tasks.
- 6 Speed of modem is measure in
- 7 The other name CPU is
- 8 Wimax need A tower called
- 9 is a group of device linked to each other.
- 10 The distance between text boundaries and page margins is called.....

True and False:

- 1 Cloud computing is divided into two parts 1. Public 2. Private.
- 2 The cloud storage is a mechanism not a physical storage device.
- 3 Scanner is a output device.
- 4 Save will always display a dialog box that may be used to save a document under a different name/type.
- 5 The print icon appears on standard toolbar.
- 6 A computer that is not connected to a network is known as host.
- 7 A computer that is connected to a network is known as STAND ALONE COMPUTER.
- 8 Page orientations are three types.
- 9 The distance between text boundaries and page margins is known as indent.
- 10 Super computer is the most powerful computer

Write the Full form of the following:

- | | | | | |
|-----------|----------|--------|----------|--------|
| 1 WYSIWYG | 2. MODEM | 3. CAD | 4. WIFI | 5. PDA |
| 11 ASCH | 7. IPO | 8. UPS | 9. CDROM | 10. OS |

Write the shortcut key for the following:

- | | |
|--|-------------------|
| 1__For viewing toggling non-printing characters. | 3. Undo |
| 2__To include the entire document | 4. Paste |
| | 5. Once screen up |

Write the answer of the following questions.

- 1 Write the name of all short distance and long distance wireless media(unguided media).
- 2 What are the four fundamental components of a computer system?
- 3 Name all guided media.
- 4 Explain video conferencing.
- 5 Explain cloud computing
- 6 What do you mean by shell and kernel?
- 7 Explain the term blog.
- 8 Identify two tasks these computers might be used to do:
 - a Supercomputers
 - b) Personal digital assistant
- 9 Identify the category, the following computers belongs to:
 - a Microwave oven at your home.
 - b Big interconnected computers housed at scientific lab to carry out scientific research.
 - c The computers carried the sales executives that he carries everywhere he goes to.
 - d The computers in your school lab.
- 10 For each of the following device, describe the type of component it is and in short describe its function within a computer system:

| | Component | Type | Usage |
|---|-------------------|------|-------|
| 1 | Laser printer | | |
| 2 | Mouse | | |
| 3 | 8.2 GB hard drive | | |
| 4 | CPU | | |

Objective type questions:

- 1 What does figure below mainly show?
 - Basic
 - Theory
 - Practice

| | |
|-----------------|-------------------|
| a Bulleted list | b) Numbered list |
| c) Ordered list | d) UnOrdered list |
- 2 Which extension is given to writer document by default?

| | |
|---------|---------|
| a .odt | b) .DOC |
| c) .COM | d) NONE |
- 3 Total height of a line of text including extra spacing is known as

| | |
|---------------|-----------------|
| a Line height | b) Line weight |
| c) Line area | d) Line spacing |

- 4 The operating system of a computer serves as a software interface between the user and
 - a Hardware
 - b) Peripheral
 - c) Memory
 - d) Screen

- 5 This part sends signals to other parts of the computer to tell them what to do.
 - a CPU
 - b) Motherboard
 - c) ICON
 - d) Hard Drive

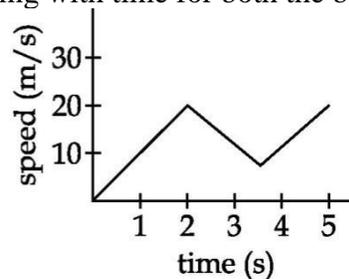
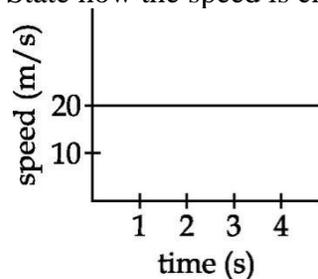
Draw the following Diagram

- 1 Modem
- 2 IPO Cycle
- 3 Blog icon
- 4 Video conferencing any example icon
- 5 Indentation

Question

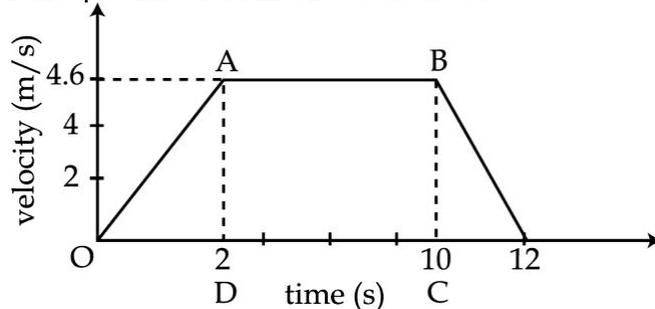
- Derive the equation of motion $s = ut + \frac{1}{2}at^2$, using graphical method
 - A train starting from rest attains a velocity of 72 km/h in 5 minutes. Assuming the acceleration is uniform, find (i) The acceleration (ii) The distance travelled by the train for attaining this velocity.
- A body moves with a velocity of 2 m/s for 5 s, then its velocity increases uniformly to 10 m/s in next 5 s. Thereafter its velocity begins to decrease at a uniform rate until it comes to rest after 5 s.

 - Plot a velocity - time graph for the motion of the body.
 - From the graph find the total distance covered by the body after 2 s and 12 s.
- What does the odometer of an automobile measure?
 - Two graphs A and B for respective motion of objects moving along a straight line are shown. State how the speed is changing with time for both the bodies.



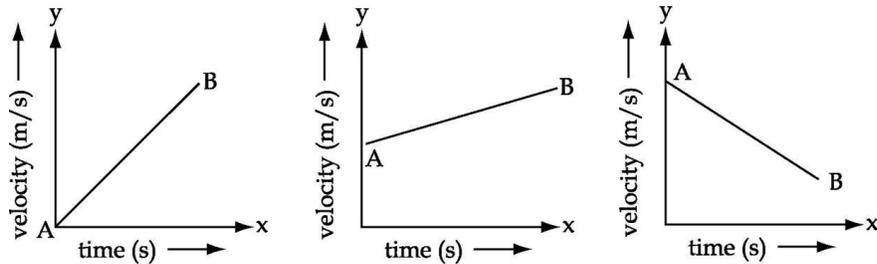
- Study the velocity - time graph of an ascending passenger lift in the figure shown below. What is the acceleration of the lift :

 - During the first two seconds.
 - between second and tenth second
 - during the last two seconds.
 - Which physical quantity is measured by area under the quadrilateral ABCD? Calculate it.

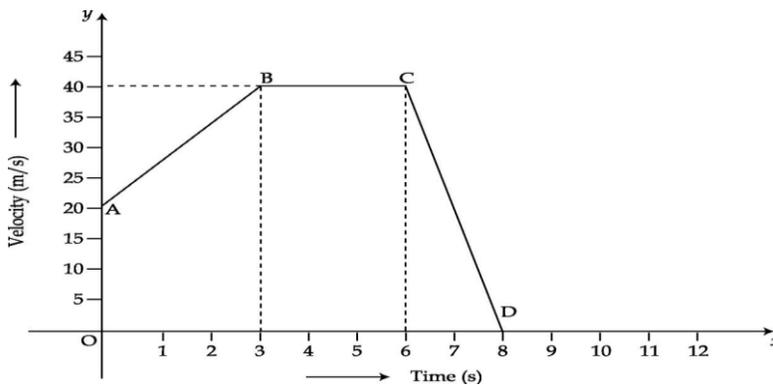


- A particle moves 3m north, then 4m east and finally 6m south. Calculate the magnitude of displacement. Also calculate the distance travelled by the particle ?
- List two difference in tabular form between speed and velocity. When is a body said to have: (a) uniform velocity and (b) variable velocity. How is the average velocity of a body calculated when its velocity changes at a uniform rate?

7. A train starting from rest, pick up a speed of 10m/s in 100s. It continues to move at the same speed for the next 250s. It is then brought to rest in the next 50s. Plot a speed – time graph for the entire motion of the train. Also Calculate -
 (i) acceleration of the train while accelerating, (ii) retardation of the train while retarding, and (iii) the total distance covered by the train.
8. Explain the difference regarding initial velocity and nature of acceleration of three moving bodies as expressed by the three graphs.



9. The following is the velocity-time graph for a moving body.

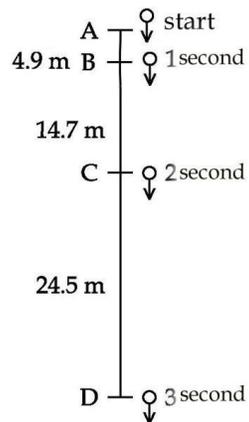


Find :

- (a) The velocity with which motion started ? (b) Velocity of the body at point C.
 (c) Acceleration acting on the body between A and B. (d) Acceleration acting on the body between B and C.

10. Define ‘average speed’. An object moves with a uniform speed of 10 m/s for 5 s and then with a uniform speed of 5 m/s for 10 s. Find its average speed.
11. A feather is dropped on the moon from a height of 1.40 meters. The acceleration of gravity on the moon is 1.67 m/s^2 . Determine the time for the feather to fall to the surface of the moon.
12. An engineer is designing the runway for an airport. Of the planes that will use the airport, the lowest acceleration rate is likely to be 3 m/s^2 . The takeoff speed for this plane will be 65 m/s. Assuming this minimum acceleration, what is the minimum allowed length for the runway?
13. A bullet leaves a rifle with a muzzle velocity of 521 m/s. While accelerating through the barrel of the rifle, the bullet moves a distance of 0.840 m. Determine the acceleration of the bullet (assume a uniform acceleration).

14. From the given data find the value of acceleration for (i) from A to B (ii) from B to C (iii) from C to D.



15. A plane has a takeoff speed of 88.3 m/s and requires 1365 m to reach that speed. Determine the acceleration of the plane and the time required to reach this speed.