DAV HZL SR. SEC. SCHOOL, DARIBA

CLASS-IX

HOLIDAY HOME WORK

MATHEMATICS

1. Write places where we use spiral roots.
2. Make 10 different questions of polynomial and find dividend, divisor and remainder.
3. Learn all identities related to polynomials and make two questions on each identity and solve it.
4. Make 10 questions of quadratic polynomial and factorise by using split into middle terms.
5. Revise chapter-1 and chapter-2 from R.D. Sharma OR any other reference book.

ENGLISH

1. Each of you spend your summer vacations in varied ways. Share your memorable moments, you gathered during your summer vacations with your diary. Follow the format given for diary entry (To be done on A4 size paper.)
2. Listen to the video and answer the following questions.

   Link : https://www.youtube.com/watch?v=WCwkVS-hnYo&feature=youtu.be

1. Briefly describe the character of the head gardener Mehir.
2. What ailments were the two ministers of Akbar's court suffering from?
3. After listening to the conversation, write the dialogues between Birbal and Vaid Prasad.
4. What according to Akbar should the medicine man do to the people?
5. What kind of a person is Birbal according to you?

3. Listen to the video and note down the important points and prepare an article to be spoken after the schools reopens.

   Link : https://www.youtube.com/watch?v=5a5VSkkdpB4&feature=youtu.be

SOCIAL STUDIES (ECONOMICS)

Q.1 Visit to a village and collect the information about the economic activities of the villagers. Points to be included

a) Percentage of people included in the farm and non – farm activity

b) Cropping pattern

c) Crop variety improvement : Objective , Technique , Use of technology, Merits – demerits.

d) Irrigation method used

BIOLOGY

1. Revise chapter-5 from NCERT book or any other reference book.
2. Draw the diagram of plant or animal cell on chart paper and label it.
3. Write 5 points of differences between following in tabular form in your note book:- (a) Xylem and phloem tissue.

(b) Simple permanent and complex permanent tissue. (c) Parenchymatous and sclerenchymatous tissues.

(d) Parenchymatous and Collenchymatous tissues. (e) Sclerenchymatous and collenchymatous tissue

CHEMISTRY

Watch the video carefully, available on the below link and answer the following questions.

https://www.youtube.com/watch?v=XEAiLm2zuvc

1. Give reason for the following observations:-

a) Light path is visible in milk solution.

b) Particles of true solution cannot scatter a beam of light.

2. A solution is always a liquid. Comment.
3. What is the size of colloidal particles?
4. Define the following:-

a) Tyndall effect

b) Brownian Movement

5. How would you prove that colloids are heterogeneous?
6. Differentiate between colloid, true solution and suspension on the basis of Particle size, Tyndall effect, stability and nature of the solution (homogeneous and heterogeneous)
7. Write two examples of each suspension, colloid and true solution.

Revise Chapter – 1

Note :- Write answer of given questions in your Note Book

MOTION (PHYSICS)

Multiple Choice Questions

1. If the displacement of an object is proportional to square of time, then the object moves with

(a) uniform velocity (b) uniform acceleration

(c) increasing acceleration (d) decreasing acceleration

2. The distance time graph of a body coincides with its time axis. The body must be

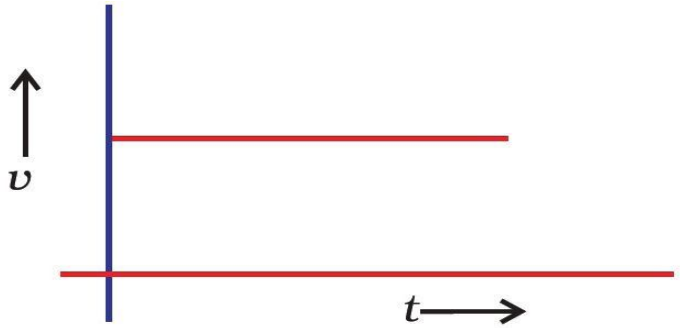
(a) in uniform motion (b) at rest

(c) in uniformly accelerated motion (d) in zig-zag motion

3. From the given $v - t$ graph (see below Fig.), it can be inferred that the object is

(a) in uniform motion (b) at rest

(c) in non-uniform motion (d) moving with uniform acceleration



4. The velocity time graph of a body is parallel to the time axis. The body is

(a) at rest (b) having uniform acceleration

(c) having zero acceleration (d) having non-uniform acceleration

5. A particle is moving in a circular path of radius r. The displacement after half a circle would be:

(a) Zero (b) πr

(c) $2r$ (d) $2\pi r$

6. A body is thrown vertically upward with velocity u, the greatest height h to which it will rise is,

(a) u/g (b) $u^2/2g$ (c) u^2/g (d) u/2g

7. The numerical ratio of displacement to distance for a moving object is

(a) always less than 1 (b) always equal to 1

(c) always more than 1 (d) equal or less than 1

8. Suppose a boy is enjoying a ride on a *merry-go-round* which is moving with a constant speed of 10 m/s. It implies that the boy is

(a) at rest (b) moving with no acceleration

(c) in accelerated motion (d) moving with uniform velocity

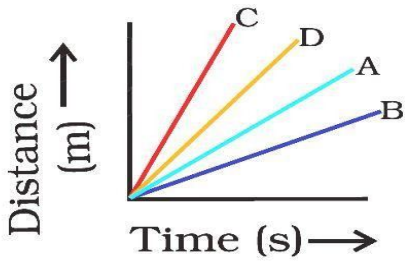
9. Area under *a v – t* graph represents a physical quantity which has the unit

(a) m^2 (b) m

(c) m^3 (d) m/s

10. Four cars A, B, C and D are moving on a levelled road. Their distance versus time graphs are shown in below Fig.. Choose the correct statement

(a) Car A is faster than car D. (b) Car B is the slowest. (c) Car D is faster than car C. (d) Car C is the slowest.



11. Slope of a velocity – time graph gives

(a) the distance (b) the displacement

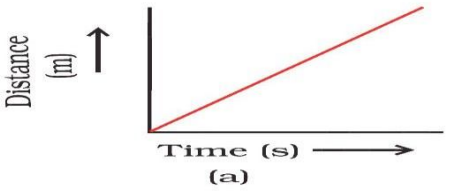
(c) the acceleration (d) the speed

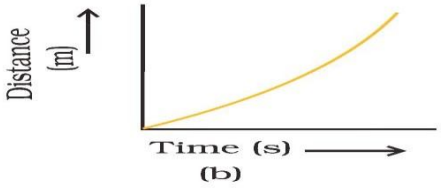
12. In which of the following cases of motions, the distance moved and the magnitude of displacement are equal?

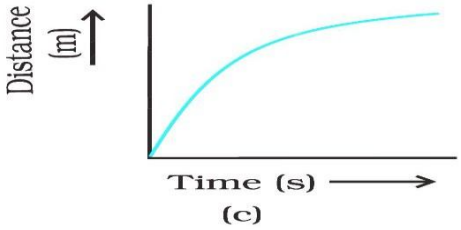
(a) If the car is moving on straight road (b) If the car is moving in circular path

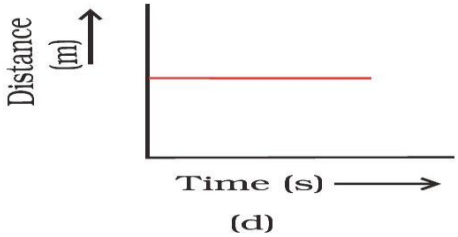
(c) The pendulum is moving to and fro (d) The earth is revolving around the Sun

13. Which of the following figures (see below Figure) represents uniform motion of a moving object correctly.









SHORT ANSWER QUESTIONS

14. The displacement of a moving object in a given interval of time is zero. Would the distance travelled by the object also be zero? Justify you answer.

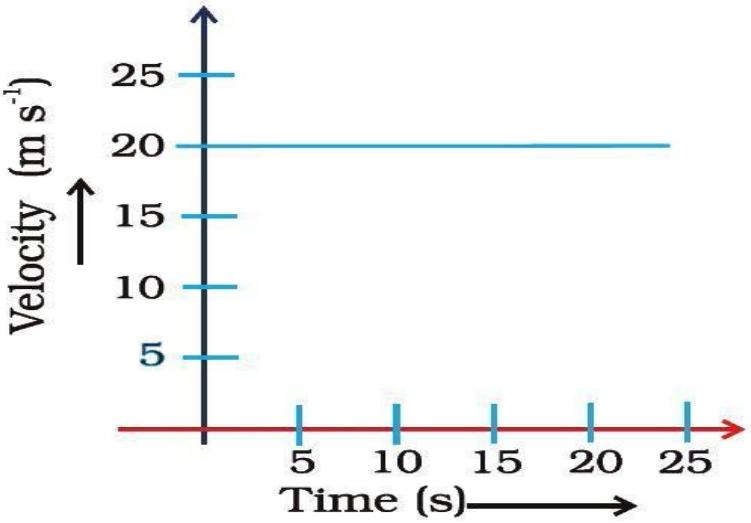
15. How will the equations of motion for an object moving with a uniform velocity change?

16. A car starts from rest and moves along *the x*-axis with constant acceleration 5 m/s^2 for 8 seconds. If it then continues with constant velocity, what distance will the car cover in 12 seconds since it started from the rest?

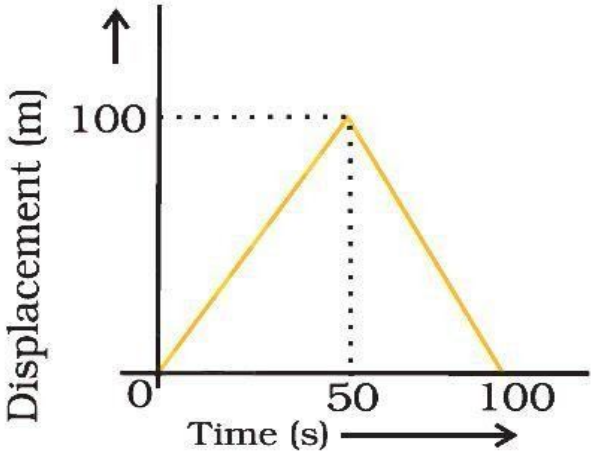
17. A motorcyclist drives from A to B with a uniform speed of 30 km/h and returns back with a speed of 20 km/h. Find its average speed.

18. Draw a velocity versus time graph of a stone thrown vertically upwards and then coming downwards after attaining the maximum height.

19. The velocity-time graph (see below Figure) shows the motion of a cyclist. Find (i) its acceleration (ii) its velocity and (iii) the distance covered by the cyclist in 15 seconds.



20. A girl walks along a straight path to drop a letter in the letterbox and comes back to her initial position. Her displacement–time graph is shown in below figure. Plot a velocity– time graph for the same.



Note :- Write answer of given questions in your Note Book

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i-1 ^fxYy* uked dgkuh e tho&ek= d ifr eu'; dh lonu"khyrk dk n"kk;k x;k gA fln/k dhft,A ¼mÙrj lhek 60&80 "kCnA½

i-2 /ky d egÙo ij viu fopkj fyf[k,A ¼mÙrj lhek 80&100 "kCnA½

i-3 Loj rFkk 0; tu dk foLrkj iod foopu dhft,A

i-4 milx rFkk iR;; dk mnkgj.k lfgr le>kb,A

i-5 xh'edkyhu vodk"k e vki ifjokj lfgr eukyh ?keu tk jg gA bl fLFkfr ij vkid vkj vkidh cgu d chp gb okrkyki dk lokn :i e fyf[k,A

i-6 ^Hkh'k.k xeh* ?kVrk tyLrj* bl fo'k; ij ,d vuPNn fy[kA