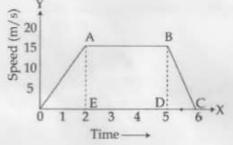


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- 9 Kushagra dropped a crystal of copper sulphate each into a beaker of hot water and containing 3 cold water and observed carefully.
 - (i) What would he observe as the time passes?
 - (ii) Does the rate of mixing change with temperature? Why and how?
- 10 Can a single cell live independently on its own? Explain by giving example.
- 11 Give the schematic location of the meristematic tissue in the plant body. Give the function of 3 each of these tissues.
- 12 A body of mass 'm' is moving with a velocity 'u'. When a force is applied on it for 3 time t, its velocity increases to 'v'. Write expressions for :
 - (a) Initial and final momentum
 - (b) Change of momentum
 - (c) Rate of change of momentum. Also write SI unit for each.
- 13 Two solid objects of masses 1kg and 2 kgs are dropped from a helicopter at the same 3 time. Which one will reach the ground earlier? Justify your answer with suitable reason.
- 14 The speed-time graph of a car is given. The car weighs 1000 kg.
 - (a) What is the distance travelled by the car in first two seconds?
 - (b) What is the braking force applied at the end of 5 seconds to bring the car to a stop within one second?



- 15
- Study the velocity-time table and answer the following :

Velocity (m/s)	0	10	15	20	15	10	0
Time (s)	0	5	10	15	20	25	30

- (a) What is the value of acceleration during 0-15 s?
- (b) Is the body in uniform or non-uniform motion ?
- (c) The time interval in which the acceleration is negative.
- 16 What do you understand by momentum ? A vehicle is running with a velocity of 5 m/s. If 3 the momentum of the vehicle is 5000 kgm/s. What is its mass ?
- 17 Dunichand was good in studies and his parents wanted him to continue further. When he 3 came to the village during vacation he persuaded villagers to adopt modern methods of irrigation, genetically modified seeds. And the villagers saw tremendous increase in the vield.
 - (i) Why the modern methods of irrigation are better than the traditional ones?

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/	(ii)	What is meant by ger	netically mod	fied seeds?	
	(iii)			bited by his behaviour?	
18	"Cro	ss breeding programm	es between in	digenous and exotic breeds of poultry birds focu	isses 3
				h traits for which new varieties are developed.	
19	(a)	You are given iron fil between physical and		hur powder. Using these substances differentiat	le 5
	(b)	Differentiate betweer			
20	Can i	ncreasing or decreasing	pressure cha	nge the state of matter?	5
				? State the factors that determine the state a solid into liquid and vice-versa.	of a
21		a well labelled diagra lar reproduction". Justii		ryotic nucleus. "The nucleus plays a central rol mt.	le in 5
22	(a)			bodies placed at the same distance from the cent ir masses will be the same.	tre 5
	(b)			ation due to gravity in terms of mass of the earth	1
	(c)	Why is 'G' called a ur	niversal const	int?	
23	(a)		and the second	itude of gravitational force between earth and ar	n 5
	(b)	object on earths' surfa		tational force 'F' change between two objects wh	en
	(0)	the :			
		(i) distance betwee (ii) mass of one of		duced to half, and ed four times	
24			on three basis	types of cross - breeding practices. Describe	any 5
	one o	f them.			
			SE	CTION - B	
25	A stu	dent wants to test for a	Julteration in	yellow dal. Which reagent he should use to test	it: 1
	(a)	Iodine solution	(b)	Safranin	
	(c)	Methylene Blue	(d)	conc hydrochloric acid	
26	If we	are not observing pos	sitive test for	starch in a food sample it means the given for	ood 1
		rial is :			
	(a)	Rice	(b)	Potato	
	(C)	Peas	(d)	corn flour	
27		you mix iron filings at . How the particles in th		proughly and spread the mixture evenly on a wl pear ?	hite 1
	(a)			in distinctly spreaded uniformly.	
	(b) (c)	grey and yellow parti grey and yellow parti		en distinctly, but they are not spread uniformly. seen distinctly.	
	(d)	only yellow particles			
				Page 3	of S

					ir powder is strongly heated in a China dish then the	1
		of the produc yellow	ct obtained is	: (b)	black	
	(a) (c)	grey		(d)	orange	
29	A stud	lent took som	ie dilute sulp	shuric aci	id in a conical flask and added some pieces of zinc	1
					ourless and odourless gas. This gas is :	
	(a)	oxygen		(b)	hydrogen sulphide	
	(c)	hydrogen		(d)	sulphur dioxide	
30	The st	eps included f	for preparing	a tempor	rary mount of human cheek cell are :	1
	(i)			hpick, sc	crape the inner side of cheek to collect squamous	-
		epithelial cel				
	(ii) (iii)		outh with wa f glycerine or		a	
	(iv)		rops of stain			
	(v)		rslip gently o			
		t sequence of		-		
	(a)	(v)-(iv)-(iii)-((b) (d)	(ii)-(i)-(iv)-(iii)-(v) (ii)-(iv)-(iii)-(i)-(v)	
	(c)	(iv)-(iii)-(i)-(v	v)-(iii)	(d)	(m-(m-(m-(n-(v)	
31	The co	arrect labelling	for 'A' and '	B' in the f	following diagram of neuron is :	1
	. (1	WI				
	Y	TY			,	
	1				1	
	1					
	K	~			7	
	X	1 A	В			
		A				
	(a)	A - nucleus	B - Dendrit	te		
	(a) (b)	A - nucleus A - Dendrite		te		
	(b) (c)	A - Dendrite A - Cyton	B - Axon B - Dendrit			
	(b)	A - Dendrite	B -Axon			
32	(b) (c) (d)	A - Dendrite A - Cyton A - Axon	B -Axon B - Dendrit B - Cyton	e	Only A sublimes, both A & B dissolve in water. A	1
32	(b) (c) (d) A m	A - Dendrite A - Cyton A - Axon ixture contain	B - Axon B - Dendrit B - Cyton is two solids	e A & B. (Only A sublimes, both A & B dissolve in water. A e method he applies is :	1
32	(b) (c) (d) A m	A - Dendrite A - Cyton A - Axon ixture contain	B - Axon B - Dendrit B - Cyton is two solids separate A a	e A & B. (and B. The	e method he applies is :	1
32	(b) (c) (d) A m stud	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation	B - Axon B - Dendrit B - Cyton is two solids separate A a owed by eval only	e A & B. (and B. The	e method he applies is :	1
32	(b) (c) (d) A m stud (a) (b) (c)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation sublimation	B - Axon B - Dendrit B - Cyton is two solids separate A a owed by eval only	e A & B. (and B. The	e method he applies is :	1
32	(b) (c) (d) A m stud (a) (b)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation	B - Axon B - Dendrit B - Cyton is two solids separate A a owed by eval only	e A & B. (and B. The	e method he applies is :	1
32 33	(b) (c) (d) A m stud (a) (b) (c) (d)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation sublimation decantation the wooden b	B - Axon B - Dendrit B - Cyton is two solids o separate A a owed by eva only only	e A & B. (and B. The poration	e method he applies is :	
	(b) (c) (d) A m stud (a) (b) (c) (d) When (a)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation sublimation decantation the wooden b vertically up	B -Axon B - Dendrit B - Cyton is two solids o separate A a owed by eva only only elock moves o wards	e A & B. (and B. The poration	e method he applies is :	
	(b) (c) (d) A m stud (a) (b) (c) (d) When (a) (b)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation sublimation decantation the wooden b vertically up vertically do	B -Axon B - Dendrit B - Cyton is two solids o separate A a owed by eva only only elock moves o wards wnwards	e A & B. (and B. The poration	e method he applies is : face of a table, the direction of the force of friction is	
	(b) (c) (d) A m stud (a) (b) (c) (d) When (a) (b) (c)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation sublimation decantation the wooden b vertically up vertically do horizontal, in	B -Axon B - Dendrit B - Cyton is two solids o separate A a owed by eva only only block moves o wards wnwards in the directio	e A & B. (and B. The poration on the sur n of motio	e method he applies is : face of a table, the direction of the force of friction is	
	(b) (c) (d) A m stud (a) (b) (c) (d) When (a) (b)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation sublimation decantation the wooden b vertically up vertically do	B -Axon B - Dendrit B - Cyton is two solids o separate A a owed by eva only only block moves o wards wnwards in the directio	e A & B. (and B. The poration on the sur n of motio	e method he applies is : face of a table, the direction of the force of friction is	1
	(b) (c) (d) A m stud (a) (b) (c) (d) When (a) (b) (c)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation sublimation decantation the wooden b vertically up vertically do horizontal, in	B -Axon B - Dendrit B - Cyton is two solids o separate A a owed by eva only only block moves o wards wnwards in the directio	e A & B. (and B. The poration on the sur n of motio	e method he applies is : face of a table, the direction of the force of friction is on n of motion	1
	(b) (c) (d) A m stud (a) (b) (c) (d) When (a) (b) (c)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation sublimation decantation the wooden b vertically up vertically do horizontal, in	B -Axon B - Dendrit B - Cyton is two solids o separate A a owed by eva only only block moves o wards wnwards in the directio	e A & B. (and B. The poration on the sur n of motio	e method he applies is : face of a table, the direction of the force of friction is on n of motion	1
	(b) (c) (d) A m stud (a) (b) (c) (d) When (a) (b) (c)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation sublimation decantation the wooden b vertically up vertically do horizontal, in	B -Axon B - Dendrit B - Cyton is two solids o separate A a owed by eva only only block moves o wards wnwards in the directio	e A & B. (and B. The poration on the sur n of motio	e method he applies is : face of a table, the direction of the force of friction is on n of motion	1
	(b) (c) (d) A m stud (a) (b) (c) (d) When (a) (b) (c)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation sublimation decantation the wooden b vertically up vertically do horizontal, in	B -Axon B - Dendrit B - Cyton is two solids o separate A a owed by eva only only block moves o wards wnwards in the directio	e A & B. (and B. The poration on the sur n of motio	e method he applies is : face of a table, the direction of the force of friction is on n of motion	1
	(b) (c) (d) A m stud (a) (b) (c) (d) When (a) (b) (c) (d)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation decantation the wooden b vertically up vertically do horizontal, in horizontal, o	B -Axon B - Dendrit B - Cyton is two solids o separate A a owed by eva only only block moves of wards wnwards in the directio pposite to the	e A & B. (and B. The poration on the sur n of motion e direction	e method he applies is : face of a table, the direction of the force of friction is on n of motion	1
33	(b) (c) (d) A m stud (a) (b) (c) (d) When (a) (b) (c) (d)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation decantation the wooden b vertically up vertically do horizontal, in horizontal, o	B -Axon B - Dendrit B - Cyton is two solids o separate A a owed by eva only only block moves of wards wnwards in the directio pposite to the s mixed with	e A & B. (and B. The poration on the sur n of motion e direction	e method he applies is : face of a table, the direction of the force of friction is on n of motion	1
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33	(b) (c) (d) A m stud (a) (b) (c) (d) When (a) (b) (c) (d) When (a) (b) (c) (d) When (b) (c) (d) When (c) (d)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation decantation the wooden b vertically up vertically up vertically do horizontal, in horizontal, o	B -Axon B - Dendrit B - Cyton is two solids o separate A a owed by evaluation only block moves of wards write direction prosite to the prosite to the s mixed with gh it?	e A & B. (and B. The poration on the sur n of motia e direction a water ar stone pla	e method he applies is : face of a table, the direction of the force of friction is on n of motion	1 he 2
33	(b) (c) (d) A m stud (a) (b) (c) (d) When (a) (b) (c) (d) When (a) (b) (c) (d) When (a) (b) (c) (d)	A - Dendrite A - Cyton A - Axon ixture contain ent is asked to filtration foll evaporation decantation the wooden b vertically up vertically do horizontal, in horizontal, o n egg white is of light throug are pieces mining the bo	B -Axon B - Dendrit B - Cyton is two solids o separate A a owed by evaluation only block moves of wards write direction prosite to the prosite to the s mixed with gh it? of pumice to billing point of	e A & B. (and B. The poration on the sur on the sur of motion	e method he applies is : face of a table, the direction of the force of friction is on n of motion 	1 he 2 ile 2