

VIDYALAYA SANGATHAN, LUCKNOW REGION
SESSION ENDING EXAMINATION : 2022-23
CLASS: IX
SUBJECT: SCIENCE
MARKING SCHEME

Q. No	ANSWERS	Marks
SECTION KENDRIYA – A		
1.	(a) Nitrogen	1
2.	(d) It is mixed in any proportion by mass	1
3.	(b) It is permanent and Irreversible	1
4.	(a) Pisciculture	1
5.	(a) Longitudinal wave	1
6.	(a) Mechanical energy	1
7.	b) Tendons are non-fibrous tissue and fragile	1
8.	(c) (ii) and (iv)	1
9.	(a) Robert Hook	1
10.	c) Vascular Tissue	1
11.	d) 6 kg	1
12.	d) Compression	1
13.	c) Newton	1
14.	C) Osmosis	1
15.	b) Decrease the rate of change of momentum	1
16.	a) (i) and (iii)	1
17.	a) Both A and R are true and R is the correct explanation of A	1
18.	c) A is true but R is false	1
19.	b) Both A and R are true but R is not the correct explanation of A.	1
20.	b) a) Both A and R are true and R is the correct explanation of A	1
SECTION – B		
21.	$a=f/m = 3/1=3m/s^2$	2
22.	16 (1 mark for formula)	2
23.	The water vapour present in the air comes in contact with cold surface of the glass, loses its energy and gets converted into droplets of water.	2
24.	To provide support and provide semi permeable surface for molecule to pass in and out of the cell	1+1=2
25.	Calculation along with answer - 10 sec (1/2 mark for formula)	2

26.	The acceleration due to gravity does not depend upon the mass of the stone or body. Both the bodies fall with the same acceleration towards the surface of the earth. Thus a big stone will fall with the same acceleration as a small stone. So, both the stones will reach the ground at the same time when dropped simultaneously.	2
SECTION-C		
27.	FeSO ₄ , NaCl, H ₂ SO ₄	1x 3 =3
28.	i)negative acceleration is called retardation. ii) .0185 m/s ² OR Correct calculation	1 2 1.5 + 1.5
29.	Any 3 differences	1x 3 =3
30.	No,because there is no atmosphere on the moon. 100 x 60=6000/min	1 x 3 = 3 OR 2+1=3
31.	i) Ligament ii)regulates energy supply and demand through hunger,it found almost in every part of body	1+2=3
32.	Solid frozen carbon di oxide is called dry ice.When the pressure is reduced co ₂ directly transform into gaseous state without first passing through a fluid state.	
33	C Conditions require for good cropping	
34	i) The work done (or energy expended) by a force of one newton (N) acting over a distance of one meter (m). ii) 100 JOULE III)100 JOULE	
35	i) 10 ii) 1,2,2	
36	NEURON – definition ITS STRUCTURE AND FUNCTION	1 2+2

SECTION- E

37.	(a) c (b) c (c) b (d) Cell membrane allows or permits the entry and exit of some materials in and out of the cell. It also prevents movement of some other materials. Hence it is called as selectively permeable membrane. (e) It is spontaneous movement of a substance from a region of high concentration to a region where its concentration is low. For example, some substances like carbon dioxide or oxygen can move across the cell membrane by a process called diffusion.	1+1+2=4
38.	i) b ii) c iii) b iv) b	1+1+1+1=4
39.	(i) b (ii) a (iii) b (iv) Weight is vector quantity as it has magnitude as well as direction which is always towards centre of the earth.	1+1+1+1=4