ACBSE Coaching for Mathematics and Science

SUMMATIVE ASSESSMENT - I, 2017

SCIENCE

Class - IX

Time Allowed: 3 hours Maximum Marks: 80

	Section - A		
4	A book is placed on a table. Write the forces acting on the book.	[1]	
2.	What happens to the melting point of solid with increase in pressure?	[1]	
3.	What is weightlessness? When do objects experience weightlessness?	[2]	
4.		15 N	
5.	What is the difference between a gas and a vapour? What do you mean by plasmolysis?	[2]	
6.	Mention three points to Justify that air is a mixture not a compound.	[2]	
7.		[3]	
	Draw a distance-time graph for Jsuni Tutoria (i) An object moving with a uniform velocity	[3]	
	(ii) An object is at rest.		
в.	How will the weight of a body of mass 100 kg change if it is taken from equator to the pole: Give reasons.	s? [3]	
9:	Describe the phenomenon of membrane biogenesis. Give one function of endoplastic retic	ulum? [3]	
10.	W 000-3-22-2-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3		
	Mention the functions of different types of merismatic tissue.		
11	If 10 gm of common salt is dissolved in 364 gm of water. What will be the concentration of	the	
12.	solution? Carbon dioxide was taken in an enclosed cylinder and compressed by applying pressure.	[3]	
	(i) Which state of matter will be obtained after completion of the process?		
	(ii) Define the process. (iii) What is the common name of the product obtained in the above process?		
13.	(i) What is organic farming?		
	(ii) List any three methods for insect pest control.	[3]	
14.	State the law of Inertia. Why do we fall in forward direction, if a moving bus stops sudden		
	backward direction if it suddenly accelerates from rest?	[3]	
15.	What happens to the magnitude of the force of gravitation between two objects if (i) distance between the object is tripled.	[3]	
	(ii) Mass of both the objects is doubled.		
	(iii) Mass of both the objects as well as the distance between them is doubled.		

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16.	Distinguish among true solution, suspension and colloid in the tabular form under the follow	wing		
	characteristics:- (i) Type of mixture (ii) Stability (iii) Filterability (iv) Size of the solute (v) Visibility of particles Draw a velocity versus time graph for a bady that start to the solute in	[5] = U+at		
17.	raw a velocity versus time graph for a body that starts to move with velocity 'u' under a constant cceleration 'a' for time 't'. Using this graph, derive an expression for distance covered 's' in time 't'. [5]			
18.	Distinguish between balanced and unbalanced gorces. Explain the affects of both types with examples.	suitable [5]		
19.	Mention the modern methods undertaken in India to supply water to the field.	[5]		
20.	Differentiate between bone and cartilage with respect to structure, function and location.	[5]		
21.	State all the factors that affect the rate of evaporation of water. Discuss one by one how the affect the rate of evaporation.	ese factors [5]		
	Section -B			
22.	What would happen if a plant cell is kept in a hypotonic and hypertonic solution?	[2]		
23.	On observing a permanent slide under a microscope, a student found a structure without co had light and dark bands. What would be the slide of?	ell wall that [2]		
24.	To study the third law of motion, write appropriate set of apparatus that are available in a laboratory. [2]			
25.	(i) What happens to the temperature of water, when it boils?			
	(ii) At 0°C or 273K, what is the physical state of water?	[2]		
26.	A mass of 10 gm is suspended with a spring balance. Spring balance is calibrated in newton. reading of spring balance. (Take $g = 9.8 \text{ m/s}^2$)	Find the		
17 .	Metanil yellow is widely used as an aduterant. For which food item is it used? How does it hody?	arm our [2]		

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