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Subject : Science				
MCQ SINGLE CORRECT				
 Which of the following are chemical changes ? (i) Decaying of wood (ii) Burning of wood (iii) sawing of wood (iv) Hammering of a nail into a piece of wood 				
(a) (i) and (ii)	(b) (ii) and (iii)			
(c) (iii) and (iv)	(d) (i) and (iv)			
2. A mixture of sulphur an	d carbon disulphide is			
(a) heterogeneous and s	hows Tyndall effect	(b) homogeneous and shows Tyndall effect		
(c) heterogeneous and d Tyndall effect	oes not shows	(d) homogeneous and does not shows Tyndall effect		
3. Which of the following are physical changes ? (i) Melting of iron metal (ii) Rusting of iron (iii) Bending of an iron rod (iv) Drawing a wire of iron metal				
(a) (i), (ii) and (iii)	(b) (i), (ii) and (iv)			
(c) (i), (iii) and (iv)	(d) (ii), (iii) and (iii)			
 4. Which of the following statements are true for pure substances ? (i) Pure substance contain only one kind of particles (ii) Pure substances may be compounds or mixtures (iii) Pure substances have the same composition throughout (iv) Pure substances can be exemplified by all elements other than nickel 				
(a) (i) and (ii)	(b) (i) and	l (iii)		
(c) (iii) and (iv)	(d) (ii) and	d (iii)		
5. Two substances, A and B were made to react to form a third substance, A ₂ B according to the following reaction				
$2 A + B \longrightarrow A_2 B$ Which of the following s (i) The product $A_2 B$ sho (ii) The product will alw (iii) The product so form (iv) The product so form	statements concerning to ows the properties of su ays have a fixed compo ned cannot be classified ned is an element	this reaction are incorrect ? bstances A and B osition d as a compound		
		All The Best!!!		

(a) (i), (ii) an	d (iii)	(b) (ii), (iii) and (iv)	
(c) (i), (iii) ar	nd (iv)	(d) (ii), (iii) and (iv)	
TRUE/FALSE			
6. Starting from	Class, Species comes before	the Genus.	
(a) True	(b) False		
7. All prokaryot	es are classified under Monera	ι.	
(a) True	(b) False		
8. Seeds contai	in embryo.		
(a) True	(b) False		
9. Bryophytes h	nave conducting tissue.		
(a) True	(b) False		
10. Gymnosper	ms differ from Angiosperms in	having covered seed.	
(a) True	(b) False	1	
FILL IN THE BL		olution	Pvt
11	are called as amphibians of	the plant kingdom.	
12. Causal o	rganism of any disease is calle	d as	and water
14. Wheat, g	ram, pea, mustard are	crops.	ases and water.
15. Husk of c	coconut is made of	tissue.	
VERY SHORT D	DESC		
16. Endoskele cartilagenc Torpedo, S Rohu, Ang	ton of fishes are made up of ca ous or bony Sting ray, Dog fish, Ier fish, Exocoetus.	artilage and bone; classify the followin	ng fishes as
17. Label a,b,c	and d. given in Fig. Give the fu	unction of (b)	
RANK A			
		-b	
- Sile			
	d		
18. Classify the Rohu, Scoli Crocodile, C	following based on number of odon, Frog, Salamander, Flyin Ostrich, Pigeon, Bat, Whale	chambers in their heart. g lizard, King Cobra,	
			2

- 19. Give examples for the following
 - (a) Bilateral, dorsiventral symmetry is found in_____
 - (b) Worms causing disease elephantiasis is_____
 - (c) Open circulatory system is found in ______ where coelomic cavity is filled with blood.
 - (d) _____are known to have pseudocoelom.
- 20. Classify the following organisms based on the absence/presence of true coelom (i.e., acoelomate, pseudocoelomate and coelomate) Spongilla, Sea anemone, Planaria, Liver fluke Wuchereria, Ascaris, Nereis, Earthworm, Scorpion, Birds, Fishes, Horse.

SHORT DESC - 25 WORDS

- 21. What is green house effect ?
- 22. A cricket ball of mass 70 g, moving with a velocity of 0.5 ms⁻¹ is stopped by a player in 0.5 s. What is the force applied by the player to stop the ball?
- 23. Ammonia and hydrogen chloride gases are both pungent smelling in nature. These are released from the two opposite corners in a room. Which gas will reach first a person sitting in the centre of the room ?
- 24. Two bodies of equal masses move with the uniform velocities v and 3v respectively. Find the ratio of their kinetic energies.
- 25. If you apply 1 joule of energy to lift a book of 0.5 kg, how high will it rise? (Take g = 10 ms⁻²)

MED DESC - 50 WORDS

- 26. What are the characteristics of the particles of matter?
- 27. Calculate the masses of cane sugar and water required to prepare 250 g of 25% solution of cane sugar.
- 28. Calculate the strength of a solution containing 5 g of glucose in 200 ml of the solution.
- 29. A sprinter in a 100 m race covers 4 m in first second, 30 m in next 4s , 52 m in another 4s and finishes the race in 10 s.
 - a) Calculate the average velocity of the sprinter.
 - b) What is the peak velocity attained by the sprinter?
 - c) During which time-interval is the acceleration highest?
 - d) Plot the distance time and velocity time graph for the race.
 - e) Show in the graph the velocity of the sprinter at the end of 5 s?
- 30. Write a note on how forests influence the quality of our air, soil and water resources.

LONG DESC - 100 WORDS

- 31. How do you differentiate amongst capture fishing, mariculture and aquaculture.
- 32. Design an experiment to show that ammonium chloride undergoes sublimation.
- 33. What is chromatography? What are its various applications and underline the basic principle involved?

- 34. What is crystallization? Where is it used? Why is this better than simple evaporation technique?
- 35. What are the advantages of inter cropping and crop rotation?

MATCH THE PAIRS

36. Match the columns

	Column I		Column II
(i)	Jaundice	(1)	Infectious diseases
(ii)	Encephalitis	(2)	Malaria
(iii)	Immune system	(3)	Water borne disease
(iv)	Liver	(4)	Penicillin
(v)	Immunisation	(5)	Mosquito bite
		(6)	HIV

- (a) (i) (3), (ii) (5), (iii) (6), (iv) (2), (v) (1)
 (c) (i) (1), (ii) (2), (iii) (5), (iv) (6), (v) (3)
- (b) (i) (5), (ii) (6), (iii) (3), (iv) (2), (v) (1)
 (d) (i) (3), (ii) (5), (iii) (1), (iv) (6), (v) (2)
- 37. Match the physical quantities given in column A to their S I units given in column B :

	A		B
(a)	Pressure	(i)	cubic metre
(b)	Temperature	(ii)	kilogram
(C)	Density	(iii)	pascal
(d)	Mass	(iv)	kelvin
(e)	Volume	(v)	kilogram per cubic metre

(a) (a)
$$-(iii),(b) - (iv),(c) - (v),(d) - (ii),(e) - (i)$$
 (b) (a) $-(ii),(b) - (v),(c) - (iv),(d) - (ii),(e) - (i)$

- (c) (a) (i),(b) (iii),(c) (v),(d) (iv),(e) (ii) (d) None of these
- 38. Match the pairs

	Columnn I		Column II
(i)	Wingless insect	(A)	Kiwi
(ii)	Flightless bird	(B)	Silver fish
(iii)	Limbless reptile	(C)	Turtle
(iv)	Lungless animal	(D)	Snake

	(E) Fish			
	(a) (i) (B), (ii) (A), (iii) (D), (iv) (E)	(b	b) (i) (B), (ii) (C), (iii) (A), (iv) (D)	
	(c) (i) (A), (ii) (B), (iii) (C), (iv) (E)	(C	d) (i) (A), (ii) (C), (iii) (B), (iv) (E)	
20	Match the column (A) with the column	、 ~ (P)		
39.	(A)		/ (B)	
	(a) Fluid connective tissue	(i)	Subcutaneous laver	
	(b) Filling of space inside the organs	(ii)	Cartilage	
	(c) Striated muscle	(iii)	Skeletal muscle	
	(d) Adipose tissue	(iv)	Areolar tissue	
	(e) Surface of joints	(v)	Blood	
	(f) Stratified squamous epithelium	(vi)	Skin	
	(a) a—v: b—iv: c—iii: d—i: e—ii: f—	vi:		
		, 	$(\mathbf{D}) = 1, 0 = 1, 0 = 1, 0 = 1, 0 = 1, 0 = 1, 1 = 1, \mathbf$	
	(c) a v_1 , $b = w$, $c = w$, $a = 1$, $a = 1$, $b = $	-v,	(a) None of these	
40.	The non S I and S I units of some ph respectively. Match the units belong	iysic na t	al quantities are given in column A and column B of the same physical quantity:	
	(A)		(B)	
	(a) degree celsius	(i)	kilogram	
	(b) centimetre	(ii)	pascal	
	(c) gram per centimetre cube	(iii)	metre	
	(d) bar	(iv)	kelvin	
	(e) milligram	(v)	kilogram per metre cube	
(a)	(a) $(iv),(b) - (iii),(c) - (v),(d) - (ii),(e) - (i)$ (b) $((a) - (v),(b) - (ii),(c) - (iv),(d) - (iii),(c) - (iv),(d) - (iii),(c) - (iv),(d) - (iii),(c) - (iv),(d) - (iv),(d)$			
(c)	(a) — (ii),(b) — (i),(c) — (v),(d) — (iii)	,(e)	— (iv) (d) None of these	
		. ,		
			_	
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