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		D	elhi] OLY	Publi YMPI					agar		
	Class IV		SCIENCE				D	ate:			
	Time: 2 hour	s							$\int \mathbf{N}$	M. Marks: 50	
N	ame:		Sec:			Roll No.:					
					MEN	TAL A	BILIT	Y			
1.	Which of the f	ollowing	g canno	ot roll a	nd slide	e?					
	A. Cube		В. С	Cone		C.	Sphere	:		D. Cylinder	
2.	Number Series	5:									
	What comes n 2, 6, 12, 20, 30	ext in th	ne series	5?							
	A. 42		B. 4	0		C.	36			D. 32	
3.	Direction Sens Priya faces No now? A. East			90° to h North	_			her lef	ť. Whic	ch direction is she facing D. South	
4.	Mirror Image: Which of these				ame in						
	A. MOM		В. Т	OP		C.	DOG			D. HAT	
5.	The code for se	ome lett	ers are	given l	oelow.						
	Letters	С	F	S	Α	R	Н	0	E		
	Codes	*	?	#	!	x	@	/	\$		
	Find the code	for SCC	RE								
	A. #*/x\$		B. #	**/x!		C.	#*/!?\$			D. ?#!/x\$	
6.	If day after to	morrow	will be	e Sunda	y, then	L	wi	ll be se	venth d	lay from today.	
	A. Friday			Sunday	•		Wedne			D. Thursday	
7.	before 12 th Seg will be the dat	otember e of Nee	. His si raj's da	ster con ance co	rrectly mpetiti	remem on?	bers th	at the d	late is a	er 8 th September and In even number. What	
	A. 9 th Septemb	er	B. 1	1 th Sept	tember	C.	10 th Se	ptembe	r	D. 8 th September	

SCIENCE

	A. Cat	B. Whale	C. Frog	D. Crocodile					
•	Who am I? Read the clues and answer-								
	• I am a mammal.								
	• I live in v	water but breathe through	ugh lungs.						
	• I give birth to young ones.								
	• I have a l	blowhole.							
	A. Octopus	B. Shark	C. Crocodile	e D. Dolphin					
	A scientist obse	rves a life cycle as: E	$2 \text{gg} \rightarrow \text{Caterpillar} \rightarrow \text{P}$	upa \rightarrow Adult					
	Which animal	could it be?							
	A. Frog	B. Dog	C. Butterfly	D. Hen					
•	A boy was sweating after playing football. What could be the reason for this?								
	A. The body wa	s trying to cool itself.	B. The body was absorbing water.						
	C. The skin was	s getting warmer.	D. The swea	at glands stopped working.					
•	A lizard can stick to walls easily because:								
	A. Its tail suppo	rts the body.	B. Its claws	dig into the wall.					
	C. It has hooks	on its legs.	D. It has fee	et that create grip.					
•	Observe the tab question.	le and answer the							
	Animal	Body Covering	Breathing Organ	Method of Reproduction					
	Fish	Scales	Gills	Lays eggs					
	Frog	Moist skin	Lungs & skin	Lays eggs					
	Cat	Fur	Lungs	Gives birth					
	Snake Scales		Lungs	Lays eggs					
	Which two and organs respect		larities and differences	in reproduction and breathing					

14. Read the passage and answer the question.

A camel can walk easily on desert sand without sinking. It also lives for days without water and stores fat in its hump.

Which of these is NOT an adaptation of the camel for desert life?

A. Padded feet to walk on sand

B. Thick fur on body to stay warm

C. Hump that stores fat

D. Long eyelashes to protect eyes from sand

15. Match the animals with their type of reproduction:

Animal	Reproduction Type
Cow	a. Lays eggs
Snake	b. Gives birth
Hen	
Dog	

A. $Cow - b$, $Snake - a$, $Hen - a$, $Dog - b$	B. $Cow - a$, $Snake - a$, $Hen - b$, $Dog - b$

C. Cow - a, Snake - b, Hen - a, Dog - a

D. Cow - b, Snake - b, Hen - b, Dog - a

16. Which of these shows correct order in the life cycle of a frog?

A. Egg \rightarrow Tadpole \rightarrow Frog B. Tadpole \rightarrow Frog \rightarrow Egg D. Egg \rightarrow Frog \rightarrow Tadpole C. Tadpole \rightarrow Egg \rightarrow Frog

17. Which of the following situations best shows potential energy being converted into kinetic energy?

- A. A rolling ball slowing down
- C. A stretched rubber band lying on the table D. A battery kept in a drawer

18. Choose the correct statement about how energy changes forms:

- A. Mixer converts heat energy into sound energy
- B. Solar panel converts light energy into electrical energy
- C. Bulb converts light energy into electrical energy
- D. Fan converts mechanical energy into electrical energy

Identify the machine that involves combination of more than one simple machine: 19.

A. Knife **B.** Scissors C. Ramp D. Screw

- B. A lifted stone falling to the ground

20. What energy transformation occurs in the following case?

A windmill turning a generator to power a light bulb.

A. Electrical \rightarrow Mechanical

B. Mechanical \rightarrow Electrical

C. Wind \rightarrow Heat

D. Kinetic \rightarrow Chemical

21. A scientist observed this cycle:

Day: Wind blows from sea to land Night: Wind blows from land to sea What conclusion can be drawn?

A. Wind only blows when the Sun shines

- B. Rain causes these breezes
- C. Temperature differences create pressure changes that cause breezes

D. Moon pulls air at night

22. Identify the correct sequence of steps to purify muddy river water at home:

- A. Sedimentation \rightarrow Filtration \rightarrow Boiling
- B. Filtration \rightarrow Sedimentation \rightarrow Boiling
- C. Boiling \rightarrow Filtration \rightarrow Sedimentation
- D. Filtration \rightarrow Boiling only

23. Read the passage and answer:

In a forest, some deer died due to a water shortage. As a result, a few tigers also started dying. Which of the following explains this best?

A. Tigers ate too much

B. Trees stopped growing

C. The sun was too hot for tigers

D. Water shortage affected prey, which affected predators

24. Which of the following is an example of reduce from the 3Rs (Reduce, Reuse, Recycle)?

- A. Using old jars to store food
- B. Carrying your own cloth bag instead of using new plastic bags every time
- C. Melting used cans to make new ones
- D. Turning waste paper into fresh sheets

25. Study the given relationship. Duckweed: Lotus: Tapegrass Select the option which satisfies the same relationship.

- A. Hydrilla: Water lettuce: Lemon grass
- B. Water hyacinth: Water lily: Hydrilla
- C. Lemon grass: Water lily: Lemna
- D. Hydrilla: Water hyacinth: Lemon grass
- 26. Sohan does a lot of physical work. Neha has low immunity and falls ill frequently. Nidhi often

complains of constipation. Nupur is shorter that other girls of her age. Unscramble the given groups of letter to get name of the nutrient, the person needs more and select the correct option.

A. Sohan-LEIMNRAS B. Nidhi-TAFS C. Nupur – EGAHROUG D. Neha - TAMNIVIS

27. Refer to the given figures, X and Y and select the INCORRECT statement regarding them.

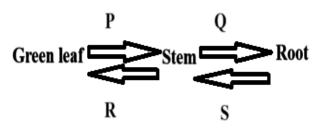




- A. X has one main root whereas Y has no main root.
- B. X is a tap root whereas Y is a fibrous root.
- C. Bean and mustard have Y type of root whereas onion and wheat have X type of root.
- D. None of these

- 28. Fibre X is obtained from the stem of a plant while fibre Y is obtained from an insect. Fibres X and Y are respectively.
 - A. Jute, Wool B. Linen, Silk C. Cotton, Silk D. Jute, Linen

29. Refer to the given flow chart.



Which of the following represents the substances P, Q, R and S?

- A. P-Water, Q-Food, R-Water, S-Food
- B. P-Water, Q- Water, R- Food, S-Food
- C. P-Food, Q-Food, R-Water, S-Water
- D. P-Food, Q- Water, R- Water, S-Food

30. Select the correct

option.

A. Solute + Solution = Solvent

- B. Solvent + Solution = Solution
- C. Solvent Solute = Solution
- D. Solvent + Solute = Solution
- 31. Read the given sentence and select the option that correctly fills in the blanks. Men of Maharashtra occasionally wear a turban called <u>(i)</u> and the women of Maharashtra wear saree known as <u>(ii)</u> saree.

A. (i) – Pheta, (ii) - Nauvari	B. $(i) - Mundu$, (ii) -
	Lungi
C. (i) – Pheta, (ii) - Mundu	D. (i) – Kediyu, (ii)-
	Dhoti

32. Which of these Indian festivals is NOT linked to the phases of Moon?

A. Diwali B. Eid C. Baisakhi D. Karvachau

33. Match the given columns and select the correct option.

Column I

Column II

- (a) Stomach
 (b) Small intestine
 (c) Large intestine
 (d) Mouth
 (i) Secretes saliva
 (ii) Does not digest any type of food
 (iii) Receives digestive juices from pancreas
 (iv) Breaks down proteins into simpler sustance
- A. (a)-(iv), (b)- (i), (c)- (ii), (d)- (iii)
- C. (a)-(iv), (b)- (iii), (c)- (ii), (d)- (i)
- B. (a)-(iii), (b)- (i), (c)- (ii), (d)- (iv)
- D. (a)-(ii), (b)- (i), (c)- (iv), (d)- (iii)

34. Identify the organ system to which the organ X shown in the given picture belongs and select the correct statement regarding that organ system.



A. It controls our actions, sense of feelings and thinking.

B. It is responsible for removing waste materials from the body.

C. It gives shape to our body.

D. It is responsible for digestion of food and absorption of nutrients.

35. X is a material whose molecules are not very closely packed but has fixed volume. Select the option that correctly identifies the examples of material X.

E. Kerosene, Coconut oil	B. Hydrogen, Steam
C. Water, Oxygen	D. Oxygen, Salt

36. Refer to the names of different types of fibres given in the box.

(i) Linen	(ii) Cotton	(iii) Nylon	(iv) Silk	(v) Jute	(vi) Wool			
How many of them are obtained from the stem of the plants?								
A. Three	B.	One	C. Two		D. Four			

37. Refer to the given table and select the INCORRECT match of the material with its property and use?

	Material	Property	Use
А.	Cloth	Flexible	T-Shirt
B.	Glass	Transparent	Tumbler
C.	Wood	Strong	Table
D.	Metal	Flexible	Eraser

38. Which of the following food items is a rich source of carbohydrates?



39. Ruban took a piece of fabric and burnt it. On burning, it gave the smell of burning celery. This fabric could be made from B. Wool

A. Cotton

C. Nylon

D. Linen

40. Banana plant grows from _____

A. Underground stem B. Root

C. Leaf

D. Flower

ANSWER KEY

1.(A)	2.(A)	3.(C)	4.(A)	5.(A)	6.(A)	7.(C)	8.(C)	9.(D)	10.(C)
11.(A)	12.(D)	13.(D)	14.(B)	15.(A)	16.(A)	17.(B)	18.(B)	19.(B)	20.(B)
21.(C)	22.(A)	23.(D)	24.(B)	25.(B)	26.(D)	27.(C)	28.(B)	29.(C)	30.(D)
31.(A)	32.(C)	33.(C)	34.(D)	35.(A)	36.(C)	37.(D)	38.(D)	39.(C)	40.(A)