

2022-23 ALL INDIA SCIENCE CHALLENGE EXAM (AIECE)

Name of the Student: Name of the School:			Roll No.: Date :				
and a second sec	: Subject: Science		Time: 60 Min				
Instructions to th	e Candidate						
1. Each question carries	1 mark. There is no r	negative marking.					
2. Separate Optical Mark							
3. Read the questions can					circle C	ompletely	
4. Rough work should be5. Return the OMR Answer	AT 100 AT	25.50 W. 680 At 15 74					
6. You can carry the ques				i idii.			
7. Once you enter the exa	amination hall, you	are not permitted to leave	e till the end	of the ex	aminati	on.	
	TT	I Class Scienc	•				
	11.	i Class Scienc	<u>.c</u>				
Weathering of re	ncks results i	in the formation o	nf				
					Soil		
(A) Petroleum	(B) Coal	(C) Trees	i	(D) \$	5011		
L, M and N are	three animal	s; L sucks blood t	from the	bodie	es of o	other a	nim
M gnaws its foo	d and N swal	lows it food as wi	hole.				
Identify the anir	mals.						
(A) L – Leech, M		N – Horse					
	•						
•	_	rrel, N – Tortoise					
(C) L – Leech, M	-						
(D) L – Butterfly	– M – Goat,	N – Lion					
While making cl	hapattis youı	mom takes som	e dough	and r	olls i	t. Then	sh
spreads it out w	rith a rolling	pin. This will cha	nge the		of 1	the doi	ıgh.
(A) Volume	(B) Shape				 Matte		5
(1) VOIGING	(D) Shape	(C) State		(1)	wiail	, 1	
							 Doc

4. In the given food chain, the producer is



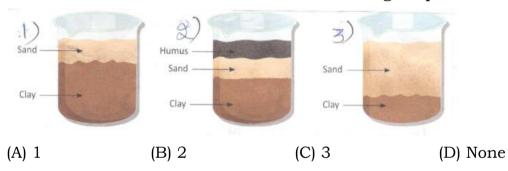
- (A) Grass
- (B) Frog
- (C) Snake
- (D) Sun

5. Which of the following is an incorrect match?

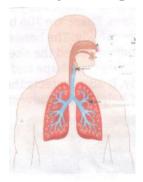
(A) Police: dial 100

- (B) Ambulance: dial 108
- (C) Fire station: dial 101
- (D) Child helpline: dial 180

6. Which of the three soils would be best suited to grow plants?



7. Identify the organ system shown in the picture



- (A) Respiratory system
- (B) Circulatory system

(C) Digestive system

(D) Excretory system

8. An object's shadow is the shortest at ____

- (A) Morning
- (B) Evening
- (C) Noon
- (D) Night

9. Ruksana's mother is spreading wet clothes on a clothesline for drying them under the sun.



Ruksana made some observations which are as follows.

- (1) Wet cotton clothes are heavier than dry ones.
- (2) Woolen clothes take the longest time to get dry.
- (3) Silk clothes absorb water the most.

Which of these observations is/are correct?

- (A) 1 and 3
- (B) 3 only
- (C) 1 and 2
- (D) 2 only

- 10. Identify the mis-matched pair
 - (A) Water bird Duck

- (B) Perching bird sparrow
- (C) Scratching bird Hen
- (D) Climbing bird crow
- 11. Steam : Gas :: Milk : _____
 - (A) Solid
- (B) Gas
- (C) Liquid
- (D) None of these

12. Study the table.

P	Q
Duck	Broad and flat beak
Vulture	Strong, sharp and hooked beak
Ноорое	5

Which of the following can be used to fill the column against Hoopoe?

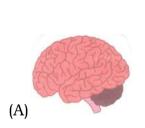
- (A) Strong, short and hard beak
- (B) Strong pointed beak
- (C) Long and pointed beak
- (D) Broad and flat beak

- X is clothing worn in winter, while Y is clothing worn in summer. 13. Select the correct option based on it.
 - (A) X can be a raincoat while Y-can be a leather jacket.
 - (B) X can be made of wool while Y-can be made of cotton.
 - (C) X is always made from natural fibers while Y-is always made from manmade fibers
 - (D) X can be manmade, Y can be natural.
- 14. Study the given table.

Living organism	Breathing organs
Cockroach	Air holes
X	Stomata
Fish	Y

Here 'X' and 'Y' are:

- (A) X Cow; Y Lungs
- (B) X Bird; Y Fins
- (C) X Grasshopper; Y Moist skin (D) X Plant; Y Gills.
- Humus is made up of _____ 15.
 - (A)Coarse particles of gravel
 - (B) Rotten leaves and decayed plants and animals
 - (C) Small pieces of stone
- (D) Small stones and clay
- 16. Which of the following organ is a part of the nervous system?









(D)

- 17. What is the term used to describe a group of stars?
 - (A) Constellation

(B) Galaxy

(C) Orbit

- (D)Purnima
- 18. Which of the following edible items are modified leaves?
 - (A) Broccoli
- (B) Ginger
- (C) Cabbage (D) Carrot

19.	Modes of transport are of three types land, water and air. Select the option the includes one example from each type.				
	(A)Glider, rickshaw, bicycle	(B) Boat, ship, submarine			
	(C) Bus, train, ship	(D) Car, boat, helicopter			
20.	Ramu observed the roots of two plants – radish and rice. He found that the				
	of rice was not. Why is that so? Choose the				

Because:

(A) It stores water

correct reason.

(B) It stores food

(C) It's a taproot system

(D) It's a fibrous root system.

- 21. Mira wants to buy oil. How will she ask the shopkeeper?
 - (A) Give me 2 kg of oil.

(B) Give me 2 ml of oil.

(C) Give me 2L of oil.

(D) Give me 2 cm of oil.

22. Kavita thinks that the cooking gas in her house is leaking. Which sense organ helped her notice the leak?

(A) Ears

(B) Eyes

(C) Skin

(D) Nose

23. What is 'X' in the given figure?



(A) Satellite

(B) Star

(C) Planet

(D) Moon

Talons are specific structures to tear the flesh of animals. Which of the 24. following birds have talons?









25. Read the given statements carefully.

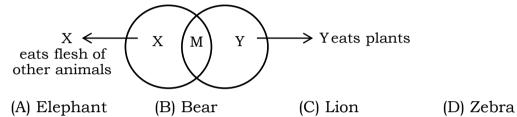
Statement 1: Mimosa plants closes themselves when touched.

Statement 2: A lotus flower opens at sunrise and closes at night.

What do you understand by the above statements?

- (A) Plants grow with time.
- (B) Plants feel changes around them and response accordingly
- (C) Plants cannot move as they prepare food using sunlight.
- (D) Both A and C

26. Identify 'M' in the given diagram.



27. Match the following and choose the correct option.

(a)	99	(1)	Left turn
(b)		(2)	School ahead
(c)	9	(3)	No 'U' turn
(d)		(4)	Zebra crossing

(A)a
$$\rightarrow$$
4; b \rightarrow 1; c \rightarrow 2; d \rightarrow 3

(B)
$$a\rightarrow 1$$
; $b\rightarrow 2$; $c\rightarrow 3$; $d\rightarrow 4$

(C)a
$$\rightarrow$$
3; b \rightarrow 4; c \rightarrow 2; d \rightarrow 1

(D)
$$a\rightarrow 2$$
; $b\rightarrow 4$; $c\rightarrow 1$; $d\rightarrow 3$

- 28. Which of the following we should not do at home to be safe?
 - (A) We should not leave our toys, bags and books lying on the floor.
 - (B) We should not run while climbing up and down the stairs.
 - (C) We should always touch electrical appliances with wet hands.
 - (D) We should not play with knives and scissors.
- 29. Identify the bird shown in the picture.



- (A) Tailor bird
- (B) Wood pecker (C) Weaver bird
- (D) Dragon bird
- 30. Read the following and state whether they are true or false.
 - (1) Moving air is called wind.
 - (2) When the wind blows slowly it is called a breeze
 - (3) Strong wind with rain and thunder is storm.
 - (A) TTF
- (B) TTT
- (C) FTT
- (D) TFT
- 31. Look at the picture given below and identify to which organ system of the plant does it belong to?



- (A) Reproductive system
- (B) Nervous system

(C) Excretory system

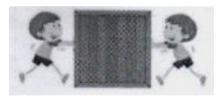
(D) Transport system

32.	defines						
	(A) Their habita	at	(B) Their fe	eding habits			
	(C) Their body		(D) All the	S			
33.	Leaves are called the kitchens of a plant. Why?						
	(A) As leaves store food for the plant.						
	(B) As most leaves are used in our kitchen.						
	(C) As leaves prepare food for the plant.						
	(D) As leaves are also called food factories of a plant.						
34.	Which of the features of the earth make it a unique planet?						
01.	(A) Temperature			(B) Availability of water			
	• • •		` ,	(D) All the above			
	(C) Atmosphere	,	(D) All the	above			
35.	Sprinkling powder on the carom board friction.						
	(A) Increases		(B) Decreas	(B) Decreases			
	(C) Does not af	fect	(D) None				
36.	Your mom has packed hot idlies for lunch. When you opened your lunch box						
	at school, you saw droplets of water on the inner side of the lid. What process is involved here?						
	(A) Evaporation		(B) Melting	(B) Melting			
	(C) Freezing		(D) Conder	(D) Condensation			
37.	E-waste like computers; leftover food, fish bones, plastic bottles, banana peel,						
	Egg shell, polythene, paper.						
	All of the above wastes are generated in our day-to-day life. How many of them						
	are biodegradable.						
	(A) 3	(B) 8	(C) 5	(D) 4			
	(11)	(2) 3	(3) 3	(2)			

38. See the picture of Motu the mama elephant and Chota the baby elephant. Choose which particular feature/s of living things is shown?



- (A) Living things need food
- (C) Living things grow
- (B) Living things reproduce
- (D) Bothe B and C
- 39. Natural fibres are obtained from _____
 - (A) Cotton
- (B) Jute
- (C) Flax
- (D) All of these.
- 40. The diagram shows two boys using the same amount of force to push the box. What will happen to the box?



- (A) The box will move to the right
- (B) The box will move to the left
- (C) The box will move left and then right.
- (D) The box will not move at all.