





**SOF NATIONAL SCIENCE OLYMPIAD 2024-25** 

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

CLASS C

Total Questions: 35 | Time: 1 hr.

#### Guidelines for the Candidate

- 1. You will get additional ten minutes to fill up information about yourself on the OMR Sheet, before the start of the exam.
- 2. Write your Name, School Code, Class, Section, Roll No. and Mobile Number clearly on the OMR Sheet and do not forget to sign it. We will share your marks / result and other information related to SOF exams on your mobile number.
- 3. The Question Paper comprises three sections:
  - Logical Reasoning (5 Questions), Science (25 Questions) and Achievers Section (5 Questions) Each question in Achievers Section carries 2 marks, whereas all other questions carry one mark each.
- 4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
- 5. There is only ONE correct answer. Choose only ONE option for an answer.
- 6. To mark your choice of answers by darkening the circles on the OMR Sheet, use HB Pencil or Blue / Black ball point pen only. E.g.
  - Q. 16: Hard outer covering of the tree trunk is called
  - A. Bark
- B. Spine
- C. Branch

As the correct answer is option A, you must darken the circle corresponding to option A on the

OMR Sheet.

16. **B** C D

- 7. Rough work should be done in the blank space provided in the booklet.
- 8. Return the OMR Sheet to the invigilator at the end of the exam.
- 9. Please fill in your personal details in the space provided before attempting the paper.
- 10. Participate in SOF-Techfest IIT Bombay Innovation Challenge. Open for class 8, 9 & 10. For details, please visit: www.sofworld.org





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#### LOGICAL REASONING

How many different possible combinations of 1 candle and 1 matchstick each can be formed from the given candles and matchsticks?





A. 12

C. 7

B. 9

D. 10

2 Select the INCORRECT match of an object with its shape.



B. Cube



D. — Cuboid

If 'March' is called 'January', 'January' is called 'August' and 'August' is called 'February', then \_\_\_\_\_ comes just after July.

A. August

B. February

C. March

D. January

Paper fan \_\_\_\_\_ is sixth to the right of third paper fan from the left end in the given arrangement.



D

S

E

T

FU

G

v

H (Right)

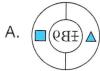
A. G

B. D

C. V

D. H

Select the correct mirror image of the given figure.



В.



Mirro ■

C. (68±) ▼

D.

- 6 Which of the following is NOT a method of cooking?
  - 1. Pickling
- 2. Grilling
- 3. Roasting
- 4. Sieving

- A. 1 only
- B. 1 and 2 only
- C. 3 and 4 only
- D. 1 and 4 only
- Select the odd one out on the basis of breathing organs they possess.









8 Select the INCORRECT option regarding the body parts of birds shown in the given figures.









- A. Q helps birds to perch on tree branches.
- B. S helps birds to swim in water.
- C. R helps birds to crack open nuts and seeds.
- D. P helps birds to suck nectar from flowers.
- Which of the following statements is NOT correct about birds?
  - A. Upstroke and downstroke are two types of movements shown by birds while flapping of wings during flying.
  - B. Body of birds is streamlined to cut through air while flying.
  - C. Bones of birds are solid and heavy to make flight easier.
  - D. Tail feathers of birds help them to change direction while flying.
- Which of the following animals takes its food in the same manner as the animal shown in figure X?









C. (

D.



12	Refer to the given Venn diagram and select the option that correctly identifies X.											
		Tent								Mostly		
		Bungalow							Spec	X		
		Igloo			п			1	1104	Greenland		
-	D.	None of these										
12	Sele	Select the correct option to complete the given analogy.										
		Postal communication : Aerogramme :: Mass communication :										
	A.	Inland letter	В.	Fax		C.	Landlir	ne phone	D.	Radio		
13	Ву		aced	a wrong						me organ system the wrong group		
	Α.	Kidney, Ureter,	Urina	ry bladde	r	В.	Brain,	Blood ves	ssels,	Spinal cord		
	C.	Stomach, Panci	reas,	Small inte	estine	D.	Skull, I	Ribcage, I	Back	oone		
4	A. B. C.	CORRECT state It is the nearest It is the fifth lar It has only one Both B and C	ment t star gest	(s) regard to our Ea olanet of	<b>ling X.</b> arth. our Solar	Syst		hea bod has i	is a venly y that ts own ght.	/ LIIC Laili		
15	A. B. C.	ich of the follow Drops of water Camphor table Ghee solidifies None of these	faller t disa	n on mar ppears a	ble floor of fter few d	disap	pear af					
16		metimes during the air near the							er dro	oplets suspended		
	Α.	Dew	В.	Fog		C.	Snow		D.	Breeze		
17		ich of the followsame?	ving o	objects w	ill cast the	e dar	kest sh	adow if th	ne ligl	ht shone on them		
	Α.	Cardboard	В.	Frosted	glass	C.	Clear	glass	D.	Butter paper		
				SPA	ACE FOR ROL	JGH V	VORK					

	P Melting Freezing	Evaporation Condensation	R	
Now, select the or	otion that correctly	identifies the examples	of P, Q and	R.
P	Q	R		
A. Liquid water	Ice	Water vapour		
B. Water vapour	Ice	Liquid water	2	
C. Ice	Liquid water	Water vapour		
D. Liquid water	Water vapour	Ice		
Select the option making floor of he		g gives the name of a	hard rock th	at is use
A. ICUMEP	B. IAGEPRTH	C. NDAMIOD	D. RE	NGAIT
A.	B.	of luminous and non-lu	D. (	(
Select the option	that correctly identi	fies X and Y in the give	en table. Herb	Shru
A. Pea	Muskmelon			-
B. Coriander	Coconut		Grass	Hibiso
	Grapevine		Mint	Y
C. Banyan	Cotton		X	Ros
C. Banyan D. Spinach	Oction			
D. Spinach		al with its young one.		- 1
D. Spinach Select the correct		al with its young one.  B. Horse	- Fo	aı
D. Spinach  Select the correct  A. Sheep –	match of the anim	B. Horse	– Fo – Cu	
D. Spinach  Select the correct A. Sheep – C. Wolf –	t match of the anim	B. Horse D. Deer		
D. Spinach  Select the correct A. Sheep - C. Wolf -  Read the given st	Fawn Kid atement and identif	B. Horse D. Deer y X. otects our lungs and h	- Cu	b
D. Spinach  Select the correct A. Sheep - C. Wolf -  Read the given st	Fawn Kid atement and identif	B. Horse D. Deer	- Cu	
D. Spinach  Select the correct A. Sheep — C. Wolf —  Read the given st X is a part of our A. Skull	randfather Vivek ha	B. Horse D. Deer y X. otects our lungs and h	– Cu neart. D. Ba	b ckbone

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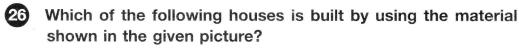
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## 25 What is common among the given food items?

- A. They all are protective foods.
- B. They all are non-vegetarian foods.
- C. They occupy the base of the food pyramid in a balanced diet.
- D. None of these



- A. Bungalow
- B. Igloo
- C. Hut
- D. Tent



Which of the following is an INCORRECT safety rule?

- A. Never play or hide in dark or isolated places.
- B. Never push or pull someone from a swing or a slide.
- C. Do not fight with other students or bully them.
- D. If any stranger tries to talk to you, give him/her your contact details.

Read the given statements about a means of transport X and select the option that correctly identifies it.

- It is a means of water transport.
- It is used by soldiers to travel under water.
- A. Cruise ship

B. Steamer

C. Cargo ship

D. Submarine



Column I

Column II

(Rock/Mineral)

(Used for)

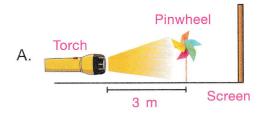
- (a) Silica
- 1. Running steam engine
- (b) Coal
- 2. Making jewellery
- (c) Diamond 3. Making glass
- (d) Chalk
- 4. Writing on blackboard
- A. (a)-2, (b)-1, (c)-3, (d)-4

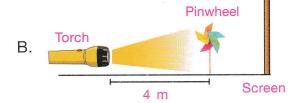
B. (a)-3, (b)-1, (c)-2, (d)-4

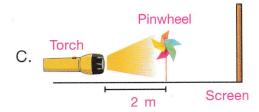
C. (a)-1, (b)-3, (c)-2, (d)-4

D. (a)-4, (b)-2, (c)-3, (d)-1

# 30 Which of the following setups will form the tallest shadow?

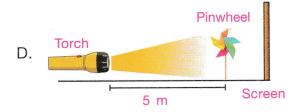






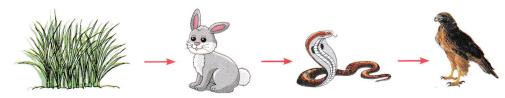
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#### **ACHIEVERS SECTION**

## Refer to the given food chain and select the correct option regarding it.



- A. A decrease in population of rabbit will lead to increase in the population of hawk.
- B. An increase in the snake population will lead to increase in the grass population.
- C. If the grass population is completely removed from the given food chain, then only rabbit population will get affected.
- D. In the given food chain, grass and rabbit are herbivores while snake and hawk are carnivores.

### 32 Which of the following can be found in the given word grid?

- A. A popular South Indian food item made by steaming
- B. A cooking method traditionally used for making puri
- C. A milk product that gives us energy
- D. A mineral that keeps our bones and teeth healthy

В	G	R	V	N	F	T	С
E	Н	D	0	ı	L	С	TEACH
G	E	S	1-1	В	U	Q	F
М	E	D	0	Α	J	G	В
Q	Α	BINAIR	R	0	N	М	Х
W	Z	E	Р	Α	K	Н	L

Refer to the given Venn diagram and select the option that is INCORRECT about X, Y and Z.

A. X can be a fibre that is obtained from cocoon of silkworm.

Obtained fibre X Z Obtained from stem of plant

B. Y can be a fibre that is obtained from coconut plant.

C. Fabric made from fibre Z can catch fire easily and is also wrinkle free.

D. Fibre Y can be obtained from flax plant whereas fibre Z can be a man-made fibre.

Refer to the given table and select the correct option regarding W-Z.

A. X can be a glass bottle whereas Y can be honey.

B. Y can be hydrogen whereas Z can be a ceramic tile.

C. W can be a marble block whereas Y can be a pencil.

D. X can be water whereas Z can be a window pane.

Characteristic	Material					
Onaracteristic	W	X	Υ	Z		
Has fixed shape	✓	×	×	✓		
Can flow	×	✓	1	x		
Can be compressed easily	×	×	√	×		
Light can pass through it	×	✓	<b>√</b>	<b>√</b>		

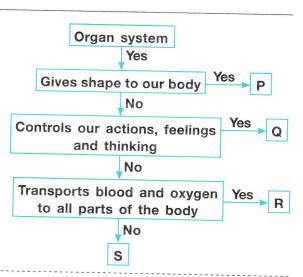
Refer to the given flow chart and select the correct option regarding P-S.

A. P can be an organ system that consists of brain as one of its organs.

B. Q can be an organ system that consists of lung as one of its organs.

C. R can be an organ system that consists of liver as one of its organs.

D. S can be an organ system that is different in males and females.



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