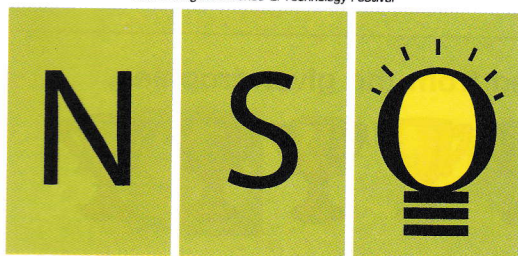




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**SOF NATIONAL SCIENCE  
OLYMPIAD 2024-25**

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

CLASS **1**

SET-B

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                      D. Bud.  
As the correct answer is option A, you must darken the circle corresponding to option A on the OMR Sheet.
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](http://www.sofworld.org)**

16. ● (B) (C) (D)

Name:.....

SOF Olympiad Roll No.:..... Contact No.:.....



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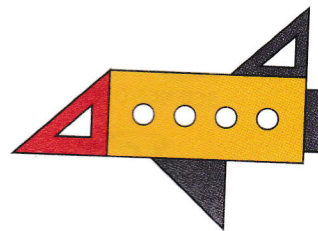
**8**  
Olympiads



# LOGICAL REASONING

1 There are \_\_\_\_\_ triangles in the given figure.

- A. 4
- B. 3
- C. 6
- D. 5

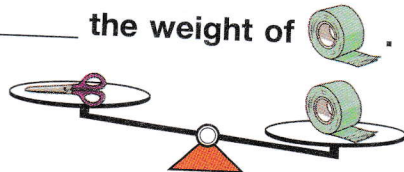


2 4 groups of \_\_\_\_\_ trophies each can be formed from the given trophies.



- A. 3
- B. 2
- C. 4
- D. 5

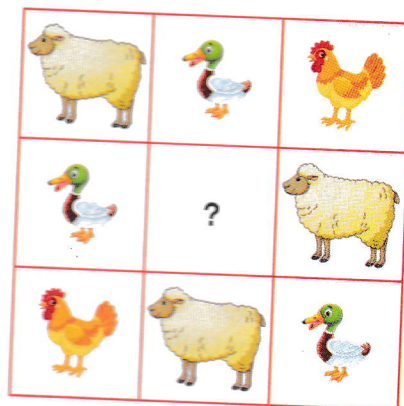
3 The weight of \_\_\_\_\_ is \_\_\_\_\_ the weight of \_\_\_\_\_.



- A. Less than
- B. More than
- C. Same as
- D. Can't say

4 Find the missing figure in the given figure matrix.

- A.
- B.
- C.
- D. Can't say



5 The cow is standing \_\_\_\_\_ the hut.

- A. Under
- B. Below
- C. Outside
- D. Inside



SPACE FOR ROUGH WORK

## SCIENCE

- 6 Select the option that can be placed in the same group as item X.



X

A.



B.



C.



D.



- 7 What is common among X, Y and Z?



X



Y



Z

- A. They all can move from one place to another on their own.  
B. They all breathe in air.  
C. They all are natural things.  
D. Both B and C

- 8 Which among the following needs food and water to live?

A. Book

B. Shirt

C. Mobile phone

D. Rabbit

- 9 Select the odd one out on the basis of number of seeds present inside them.

A.



B.



C.



D.



- 10 Which of the following plants grows in water?

A. Rose

B. Lotus

C. Sunflower

D. Hibiscus

SPACE FOR ROUGH WORK



11 The road sign shown in the given picture indicates \_\_\_\_\_.

- A. School ahead
- B. Men at work
- C. No parking
- D. Pedestrian crossing



12 Select the vegetable that can be placed in the same group as vegetable X.



X

A.



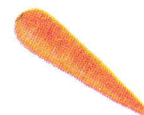
B.



C.



D.



13 Read the given statements about an animal X and select the option that correctly identifies it.

- It lives both on land and in water.
- It lays eggs.
- It captures various insects and eats them.

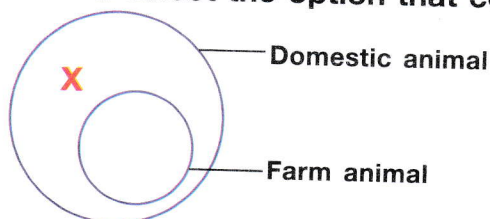
A. Spider

B. Lizard

C. Sparrow

D. Frog

14 Refer to the given diagram and select the option that correctly identifies X.



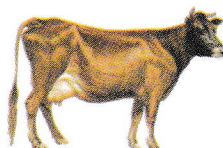
A.



B.



C.



D.



15 Starting from the first letter, cross out every alternate letter and identify the name of the animal that lives on trees.

A. EMAOLNSKUEVY

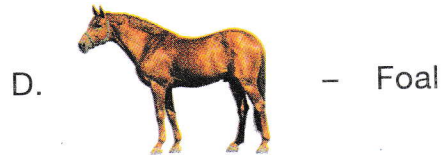
B. TOTCITFOCPLUMS

C. TWGOSLUF

D. HFSITSLH

SPACE FOR ROUGH WORK

**16** Select the **INCORRECT** match of the animal with its baby name.



**17** When is the birthday of '*Rashtrapita*' of India celebrated every year?

- A. 26<sup>th</sup> January      B. 15<sup>th</sup> August      C. 2<sup>nd</sup> October      D. 14<sup>th</sup> November

**18** Which of these is least likely to be found in the kitchen?



**19** Identify the food item sourced from plants which gives us energy to work and play.

- A. Chicken      B. Rice      C. Butter      D. Egg

**20** The traditional clothes of couples shown in pictures X and Y belong to \_\_\_\_\_ and \_\_\_\_\_ respectively.

- A. Kashmir, Karnataka  
B. Haryana, Punjab  
C. Punjab, West Bengal  
D. Rajasthan, Gujarat



X



Y

**21** I am a thorny plant. I bear yellow coloured few-seeded fruits.

Who am I?

- A. Mango      B. Papaya      C. Banana      D. Lemon

**22** Which of the following items is **NOT** found in a first aid box?

- A. Scissors      B. Thermometer      C. Band-aid      D. Goggles

SPACE FOR ROUGH WORK



- 23 Match column I with column II and select the correct option.

Column I

- (a) Red light
- (b) Zebra crossing
- (c) Yellow light
- (d) Footpath

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

Column II

- 1. Slow down
- 2. Stop
- 3. To walk
- 4. To cross the road

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

- 24 Unscramble the given letters and select the option which gives the name of a gaseous form of water.

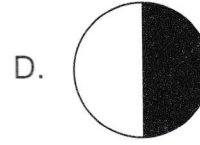
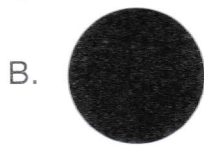
A. ETSMA

B. EIC

C. WSON

D. None of these

- 25 Which of the following options correctly shows Crescent Moon?



- 26 Select the INCORRECT statement.

- A. Birds like ostrich and emu cannot fly but can run very fast.
- B. Duck has webbed feet for swimming.
- C. Insects like silverfish neither have wings nor legs.
- D. Ants can carry load heavier than their own weight.

- 27 Which of the following clothing items is generally worn during the season when children make snowman with snow and play with it?



- 28 Which of the following can be done with the help of air?

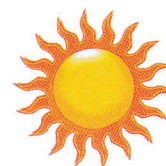
- A. Blowing up a balloon
- C. Drying wet clothes

- B. Burning wood
- D. All of these

SPACE FOR ROUGH WORK

**29** Select the correct statement regarding the heavenly body shown in the given picture.

- A. It twinkles in the night sky.
- B. It seems to change its shape every night.
- C. It gives us heat and light during the day.
- D. It is a planet with its own light.



**30** Identify the season during which the item shown in the given picture is used and select the correct statement regarding that season.

- A. Raincoat is mostly worn during this season.
- B. We like to have hot drinks during this season.
- C. We love to have cold drinks and ice-creams during this season.
- D. All of these



### ACHIEVERS SECTION

**31** Refer to the given word-chop table and select the correct option regarding it.

Name of

Box No.

- A. A natural thing that can breathe – 9, 12
- B. A man-made thing that can move – 6, 15
- C. A living thing that can make its own food – 2, 11
- D. A living thing required by humans to live – 7, 14

1	2	3	4
WO	GRA	TR	FI
5	6	7	8
OD	FR	SO	EE
9	10	11	12
WA	RE	SS	TER
13	14	15	16
BO	IL	OG	OK

**32** Refer to the given family tree and select the option that correctly answers the following questions.

1. Who is Nyra's aunt?

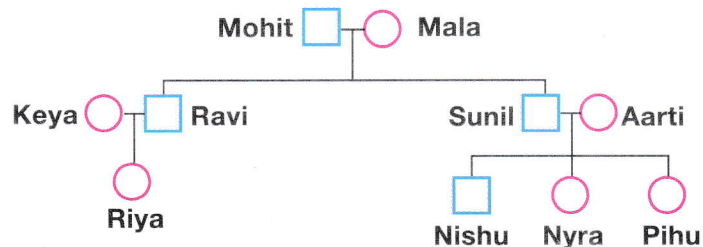
2. How is Ravi related to Pihu?

1

2

- A. Keya Grandfather
- B. Aarti Brother
- C. Mala Father
- D. Keya Uncle

Key :   Man   Woman

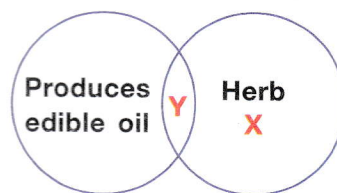


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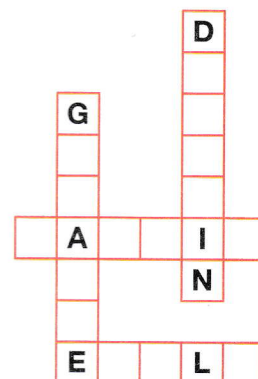
- 33 Refer to the given diagram and select the option that correctly identifies plants X and Y.

X	Y
A. Coconut	Rice
B. Tulsi	Coconut
C. Grapevine	Wheat
D. Coriander	Mustard



- 34 Solve the given crossword puzzle and select the option that is NOT hidden in it.

- An animal whose group is called tower and baby is called calf
- An animal that lives in water and its baby is called calf
- A four-legged animal whose baby is called kit
- A bird that has flippers to swim

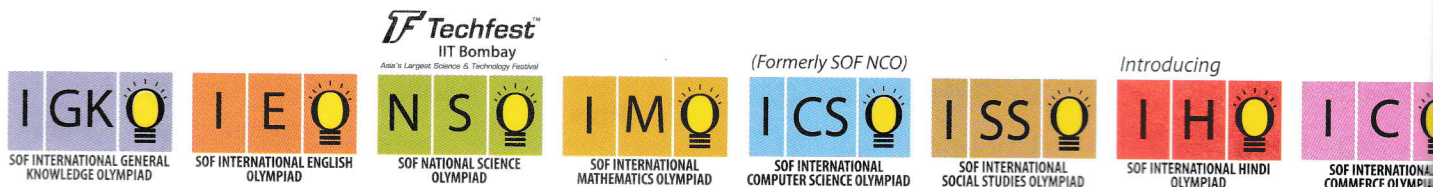


- 35 Read the given statements and select the option that correctly identifies the INCORRECT ones.

- We should switch off the lights of the room when they are not in use.
- We should run to catch the school bus when we reach late at the bus stop.
- We can climb and play on the desks in the classroom only when the teacher is not around.
- We should fasten our seat belt inside a moving car only when we see a traffic police around.

- A. 1 only      B. 2, 3 and 4 only      C. 1 and 4 only      D. 2 and 4 only

SPACE FOR ROUGH WORK



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