

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

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.
- Write your Name, School Code, Class, 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.

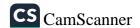
- 4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
- 5. There is only ONE correct answer. Choose only ONE option for an answer.
- 6. To mark your choice of answers by darkening the circles on the OMR Sheet, use HB Pencil or Blue / Black ball point pen only. E.g.
 - Q. 16: Raj goes to school on a bicycle. Which of these safety rules he should follow?
 - A. He should give signals before taking turns.
- B. He should keep to the right of the road.
- C. He should cross the road by using zebra crossing.
- D. All of these
- As the correct answer is option A, you must darken the circle corresponding to option A on the OMR Sheet.
- 16. B © 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 on this page before attempting the paper.





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



LOGICAL REASONING

If all the symbols are removed from the given arrangement, then how many elements will be left?

S#A1P@R!4TU\$KO5©LN°H8

16

B. 14

C. 15

- 18 D.
- Neha took leave only from 5th March to 21st March 20XX from her office. If every Sunday and second Saturday is a holiday, then for how many days was she present in her office in March 20XX?

MARCH 20XX						
Sun Mon Tue Wed Thu					Fri	Sat
- Cui	10.0	1	2	3	4	5_
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

13 A.

12 В.

C. 15

- D. 14
- Find the word that CANNOT be formed from the letters of the given word. 3.

CHOCOLATE

- CATCH
- **CLOTH**
- C. CHEAT
- CLASH D.

Select the correct mirror image of the given figure.







В.



D.





Mirror

Which of the following figures is not exactly embedded in the given figure as one of its parts?





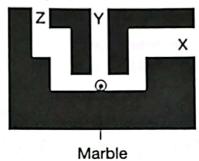






SCIENCE

The given figure shows the cross-section of a box with its openings labelled as X, Y and Z. A marble is placed at the position as shown in the figure.



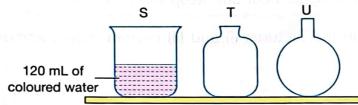
Through which opening, can marble be seen directly without any assistance?

A. X

B. Y

C. Z

- D. Either X or Z
- 7. The coloured water from container S is emptied into container T and then from container T, it is again emptied into container U.



Assuming that there is no spillage, what is the aim of the experiment?

- A. To show that the mass of the coloured water changes
- B. To show that the shape of the coloured water changes
- C. To show that the volume of the coloured water changes
- D. To show that the shape and volume of the coloured water remains the same
- 8. Kirti has plucked off all the leaves of a plant. What will happen to the plant after a week?
 - A. The plant will die.
 - B. The plant will store more food.
 - C. The roots will absorb more water and mineral salts.
 - D. The plant will take in more amount of carbon dioxide.
- 9. The given picture shows the process of _____
 - A. Freezing

B. Melting

C. Evaporation

D. Condensation



	_
B. Tikki Rice C. Biscuit Cake	
C. Biscuit Cake	
	_
D 0	_
D. Samosa Paneer tikka	
11. Ritika wants to buy fruits for making fruit salad. She should go to a	
A. Baker B. Mason C. Chemist D. Greengrocer	_
12. Why do we prefer to wear white or light-coloured clothes in summer?	
A. These clothes reflect the heat and keep the body cool.	
B. These clothes absorb the heat and keep the body cool.	
C. These clothes absorb the heat and keep the body warm.	
D. These clothes reflect the heat and keep the body warm.	
 13. The organs shown in the pictures (i) and (ii) perform one common function. Identify t function. A. Respiration B. Digestion C. Protection 	題の
D. Excretion (i))
4. Who among the following was NOT a crew member of the Apollo 11 team?	
A. Neil Armstrong B. Kalpana Chawla	
C. Edwin Aldrin D. Michael Collins	
5. Select the INCORRECT statement.	
 A. See-saw is an example of lever. B. A screw is a simple machine that has a grooved wheel and rope running in the groo of the wheel. 	ove
C. A person standing on a road with heavy load on head is not doing any work.D. Wedge is made up of two inclined planes.	
6. Which of the following birds makes a cup-shaped nest in bushes? A. Bulbul B. Penguin C. Weaver bird D. Woodpecker	
SPACE FOR ROUGH WORK	

17. Match column I with column II and select the correct option.

Column I

- a. Farthest planet
- b. Morning star
- c. Evening star
- d. Red planet
- e. Largest planet
- A. a-4, b-2, c-3, d-3, e-1
- C. a-5, b-1, c-2, d-3, e-4

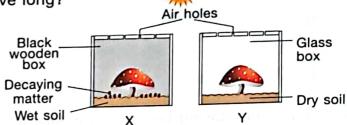
Column II

- Saturn
- Venus
- Mars
- Neptune
- 5. Jupiter
 - B. a-4, b-2, c-2, d-3, e-5
 - D. a-4, b-2, c-1, d-2, e-5

18. Two mushrooms X and Y are kept in two different types of boxes with different conditions as shown in the given pictures.

Which mushroom will NOT be able to survive long?

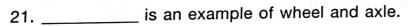
- A. X
- B. Y
- C. Both X and Y will survive for the same time period
- D. Cannot be predicted



- 19. Which of the following statements about fish is/are correct?
 - (i) They have scales to protect their body.
 - (ii) They reproduce by laying many eggs at a time.
 - (iii) They have gills which help them to swim faster.
 - A. (i) and (ii) only
- B. (ii) and (iii) only
- C. (ii) only
- D. (iii) only

Sunlight

- 20. Refer to the given figure of hen's egg and select the correct statement regarding the labelled part X.
 - A. X is a jelly-like substance that protects the growing embryo.
 - B. X develops into a baby bird called chick.
 - C. X is rich in water and proteins.
 - D. X is the air space that grows larger as the egg ages.





В.



C.



D.



- 22. How are teeth helpful in the process of digestion?
 - A. They produce the digestive juice called saliva.
 - B. They produce acid to kill germs in food.
 - C. They help to cut, chew and grind the food into smaller pieces.
 - D. They help to roll the food particles into balls to ease swallowing.
- 23. Which of the following diseases is caused by a protozoan?
 - A. Sleeping sickness

B. Dengue

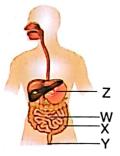
C. Tuberculosis

D. Ringworm

24. Refer to the given picture.

The semi-solid faeces passes out of the body through _____

- A. W
- B. X
- C. Y
- D. Z



- 25. Rohit was driving his car. Suddenly, he saw a road sign as shown in the given picture. What should he do?
 - A. Speed up his car
 - B. Start honking
 - C. Slow down the speed of his car
 - D. Take a U-turn
- 26. Itisha grouped four animals into two different groups S and T, based on their feeding habit as shown in the given table.

Which among the following animals can be placed in group T?

A. Deer

B. Horse

C. Rabbit

D. Leopard

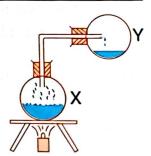
- S T
 Sheep Lizard
 Butterfly Owl
- 27. Examine the experiment as shown in the given figure. 500 mL of water in flask X is boiled until it gets completely vapourised. The amount of water collected in flask Y will be about _____.





C. 600 mL

D. 500 mL

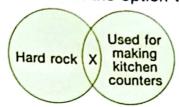


- 28. Saurabh observed a plant for about a year and wrote down the following points about it in his diary.
 - It has lots of branches and leaves.
 - It sheds its leaves in every winter to protect itself from the cold weather.
 - It grows new leaves again in the spring season.
 Which of the following types of plants he might have observed?
 - A. It is a deciduous plant.

B. It is a plant that bears cones.

C. It is an evergreen plant.

- D. It is a plant that has needle-shaped leaves.
- 29. Study the given Venn diagram and select the option that correctly identifies X.



- A. Chalk
- B. Pumice
- C. Graphite
- D. Granite
- 30. Select the odd one out on the basis of types of wastes.
 - A. Newspaper
 - C. Wooden chair

- B. Styrofoam cup
- D. Cotton shirt

ACHIEVERS SECTION

31. Refer to the given flow chart and select the option that correctly identifies P, Q and R.

A. Eraser

P

Q

R

Juice Oxygen
Car Helium

B. ClayC. Salt water

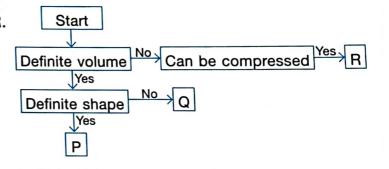
Oxygen

Dust

D. Milk

Coffee

Nitrogen



32. Study the given table and select the option that correctly identifies animals P and Q.

	Animal P	Animal Q		
A.	Housefly	Mosquito		
B.	Chicken	Fish		
C.	Butterfly	Frog		
D.	Cockroach	Butterfly		

Characteristics	Animal P	Animal Q
Lays eggs on land	Yes	Yes
4-stages in life cycle	No	Yes
Young one resembles adult	Yes	No

- 33. The name of which of the following CANNOT be found in the given word grid?
 - The gas which is present in maximum amount in air.
 - Plants like paddy grow well in this soil.
 - C. World Environment Day is celebrated in this month.
 - The tiny droplets of water formed on the surface of leaves in some winter mornings.

N	1	T	R	0	G	E	N
В	L	Α	L	E	Р	0	U
L	м	J	S	N	0	W	N
1	C	R	S	٧	Z	Q	С
w	L	Z	М	Α	Y	X	1
T	Α	н	J	U	N	E	С
X	Y	D	В	S	Т	E	D
Y	E	L	0	Α	М	Υ	Н
N	Υ	D	Α	G	F	G	Р

- 34. Which of the following statements are INCORRECT?
 - Jupiter takes around 12 years to orbit around the Sun.
 - (ii) Mars has no moon.
 - (iii) Saturn has the longest revolution period in the Solar System.
 - (iv) Venus rotates from East to West.
 - A. (i) and (iv) only
- B. (ii) and (iv) only
- C. (ii) and (iii) only
- D. (i) and (ii) only
- 35. Identify (i) and (ii) and select the option that correctly identifies examples of (i) and (ii).
 - It is a beam or rod arranged in such a manner that it can move freely around a fixed point.
 - (ii) It is made up of two inclined planes that meet to form a sharp edge.

(i)

(ii)

Α. Ramp Bottle cap

B. Screwdriver

Claw hammer

C. Scissor

Fork

D. Bicycle pedal

Bottle opener

SPACE FOR ROUGH WORK

"myclassroom" platform caters to foundation programs in Science and Maths for middle and senior school students and helps them to secure admission in top academic institutions including IITs, AIIMS, NITs, Government medical colleges, central universities, and top colleges across India. "myclassroom" with its presence across 15 states of India believes that every student has a different learning style and its proprietary AI / ML based adaptive learning platform can bring out the best in every student.

















(CS)

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