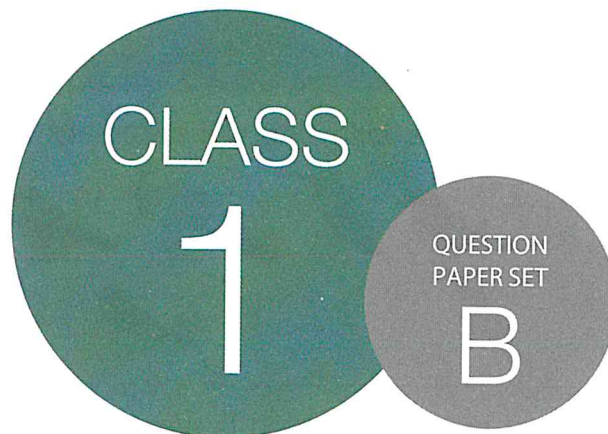




**SOF NATIONAL SCIENCE
OLYMPIAD 2019-20**



DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Total Questions: 35 | Time: 1 hr.

Name:.....

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

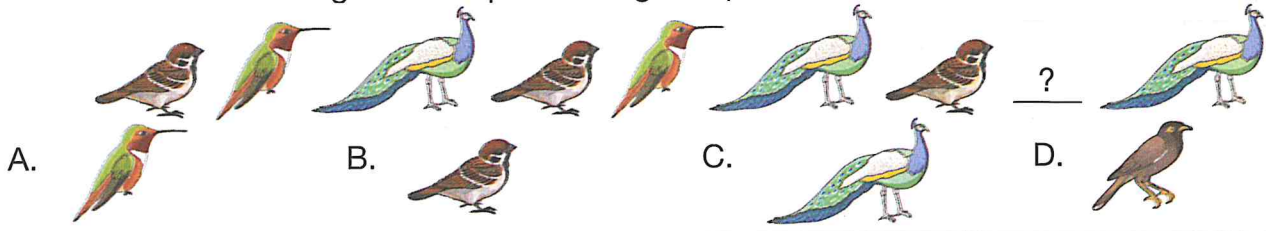
Guidelines for the Candidate

1. Please check your Name, Class and Section on the OMR sheet provided to you. In case, OMR sheet with your name is missing, please fill in information about yourself in the blank OMR sheet provided before start of exam.
2. Please fill in your **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.
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.

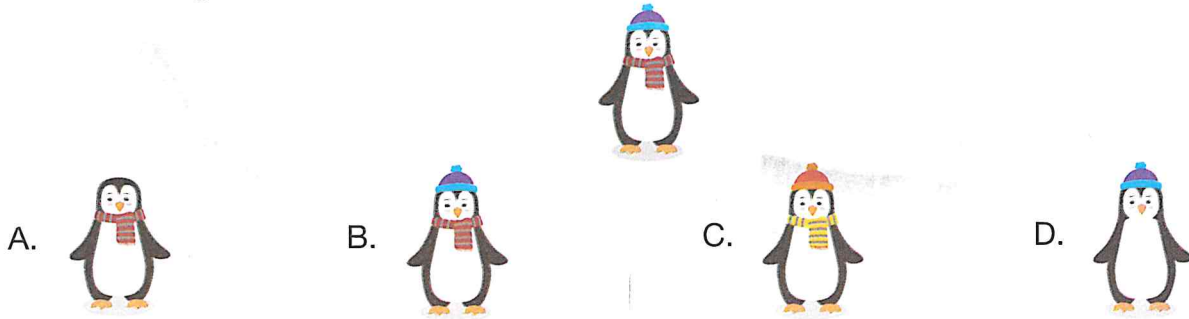
16. ● (B) (C) (D)

LOGICAL REASONING

1. Which of the following will complete the given pattern?



2. Select the figure which is same as the given figure.



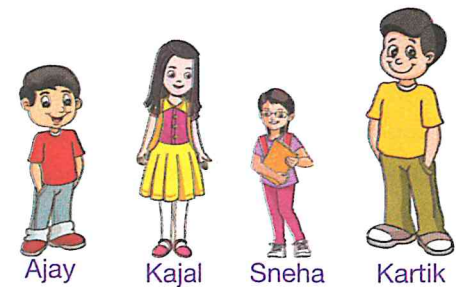
3. If Aakash's birthday is on fourth Wednesday of November 20XX, then on which date will Aakash celebrate his birthday?

- A. 22nd November B. 23rd November
 C. 29th November D. 15th November

NOVEMBER 20XX						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			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		

4. _____ is the tallest and _____ is the shortest.

- A. Sneha, Ajay
 B. Kartik, Sneha
 C. Kajal, Kartik
 D. Kartik, Ajay



5. Birds are flying _____ the house.

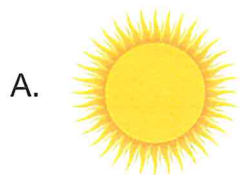
- A. On
 B. Below
 C. Outside
 D. Inside



SPACE FOR ROUGH WORK

SCIENCE

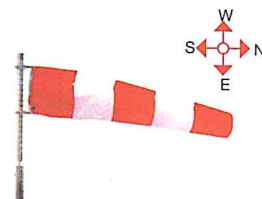
6. I am round and I appear to change my shape all the time. I do not have light of my own, but I glow. I am a/the _____.



D. None of these

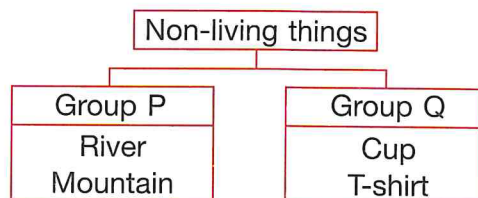
7. The windsock shown in the picture indicates that the wind is moving towards _____.

- A. North
- B. South
- C. West
- D. East



8. Study the given flow chart carefully. Which of the following could be correctly classified under groups P and Q?

- | | |
|-----------------|-----------|
| P | Q |
| A. Sun | Moon |
| B. Air | Pen |
| C. Silver coin | Newspaper |
| D. Cotton frock | Moon |



9. Study the given relationship.

Spider : Web :: Rabbit : _____

Which of the following can be placed in the blank?

- A. Den
- B. Nest
- C. Aquarium
- D. Burrow

10. Refer to the given word-chop table and select the correct match.

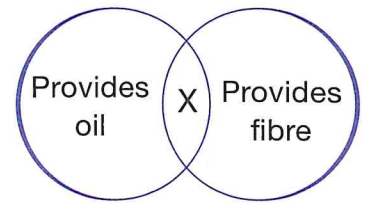
- | Name of | Box number |
|--------------------|------------|
| A. An insect | 3, 12 |
| B. Wild animal | 4, 5 |
| C. Domestic animal | 2, 7 |
| D. A bird | 9, 5 |

1 GO	2 WO	3 BE
4 CO	5 OW	6 AT
7 LF	8 TI	9 CR
10 AR	11 WL	12 ER

SPACE FOR ROUGH WORK

11. X in the given diagram could be


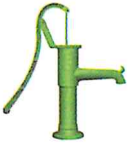

- A. Potato
- B. Coconut
- C. Spinach
- D. Jute



12. Nishant's father's bike got stolen last night. He should seek help from a _____.

- A. Postman
- B. Firefighter
- C. Policeman
- D. Teacher

13. Which of the following is used by people living in villages to get water present under the Earth's surface?

- A. 
- B. 
- C. 
- D. Both A and B

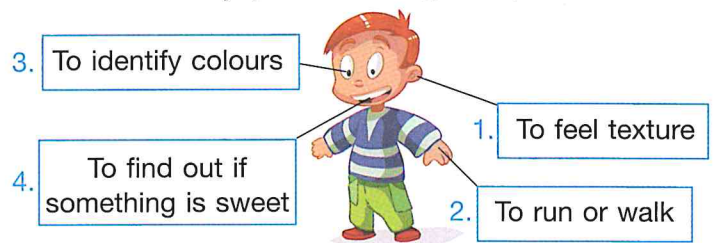
14. Ram paired one living thing and one non-living thing together but in doing so he made an incorrect pair.

Select the INCORRECT pair.




- A. Bird, Mountain
- B. Fish, Clock
- C. Rose plant, Bicycle
- D. River, Book

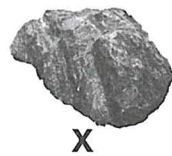
15. Which function is INCORRECTLY matched with the body part in the given picture?

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



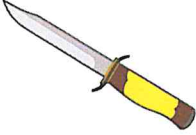


16. Select the option that can be placed in the same group as the object X.

- A. 
- B. 
- C. 
- D. None of these



SPACE FOR ROUGH WORK

17. Which of these things is NOT safe to play with?

- A.  B.  C.  D. Both B and C

18. Match the columns and select the correct option.

Column I

- (a) Cross the road at
 (b) Always walk on the
 (c) Play in the
 (d) It is safe to play with the
 A. (a)-1, (b)-2, (c)-3, (d)-4
 C. (a)-4, (b)-3, (c)-1, (d)-2

Column II

1. Toys
 2. Playground
 3. Zebra crossing
 4. Footpath
 B. (a)-3, (b)-4, (c)-2, (d)-1
 D. (a)-4, (b)-1, (c)-3, (d)-2

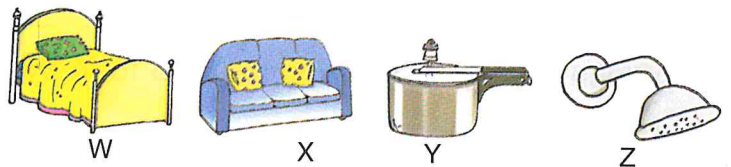
19. The given animals can be grouped together because they all _____.

- A. Can fly
 B. Have feathers
 C. Lay eggs
 D. Both B and C



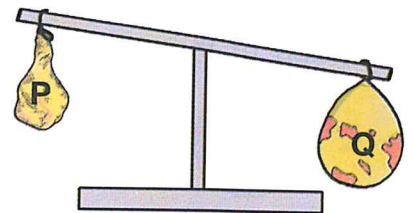
20. The given diagram shows four objects W, X, Y and Z used in a house. Select the option which correctly matches them with the type of room in which they are used.

- | Object | Type of room in which it is used |
|--------|----------------------------------|
| A. W | - We meet our guest |
| B. X | - We take rest and sleep |
| C. Y | - We cook food |
| D. Z | - We eat together |



21. Ishita took two similar balloons P and Q. She filled one of them with air. Then, she tied them on a balance as shown in the figure. The given figure shows that _____.

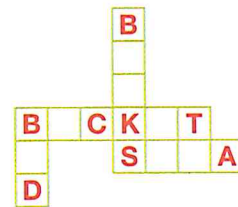
- A. Air has weight
 B. Air occupies space
 C. Air is needed for burning
 D. Air moves things



SPACE FOR ROUGH WORK

22. Solve the given crossword having names of things used in a house.
In which of the rooms of house, the hidden things are NOT used?

- A. Bedroom
- B. Living room
- C. Bathroom
- D. None of these



23. Monali made the following fruit groups on the basis of number of seeds they have but she made one mistake. Find the group with mistake.

- A.  A group of three fruits: a mango, a raspberry, and a cherry.
- B.  A group of three fruits: a watermelon, a lemon, and a peach.
- C.  A group of three fruits: an apple, an orange, and a melon.
- D.  A group of three fruits: an apple, an orange, and a pear.

24. Select the odd one out.

- A.  A purple radish.
- B.  A white cauliflower.
- C.  A green okra.
- D.  An orange carrot.

25. Select the correct statement regarding plant X.

- A. It needs support to climb up.
- B. It lives for one or two months.
- C. It grows along the ground.
- D. It is bushy and has woody stem.



26. Which body part is being referred to in the given rhyme?

- A. Stomach
- B. Hand
- C. Eyes
- D. Skin

Stretched smoothly tight,
 Around my body day and night...
 Largest part, That I own
 Bigger than my Brain or Bone!

27. Which of these is the shape of the Gibbous Moon?

- A.  A white crescent moon on a black background.
- B.  A dark circle with a white crescent on the right side.
- C.  A completely dark circle.
- D.  A circle split vertically into white and dark halves.

SPACE FOR ROUGH WORK

28. Which of the following is an INCORRECT match?

Animal	Feeding habit	Animal	Feeding habit
A. Horse	- Plant eater	B. Wolf	- Animal eater
C. Deer	- Plant and animal eater	D. Giraffe	- Plant eater

29. Which of the following statements is correct?

- A. We can see stars shining in the day.
- B. The Sun gives us light at night.
- C. The Moon gives us light that it gets from the Sun.
- D. The Sun changes its shape everyday.

30. Select the correct option regarding the statements given by Jyoti and Shivani.



Jyoti

A group of bees is called swarm and the sound made by them is called moo.



Shivani

A group of monkeys is called pack and the sound made by them is called chatter.

- A. Jyoti is correct but Shivani is incorrect.
- B. Shivani is correct but Jyoti is incorrect.
- C. Both Jyoti and Shivani are incorrect.
- D. Both Jyoti and Shivani are correct.

ACHIEVERS SECTION

31. Select the option that correctly completes the given table.

X	Y
A. Calf	Sheep
B. Kid	Frog
C. Lamb	Snake
D. Joey	Butterfly

Animal	Baby
Horse	Foal
Kangaroo	X
Y	Caterpillar

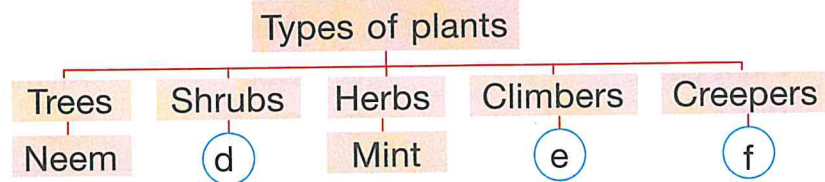
32. Study the given word grid. How many living things and man-made non-living things are hidden in it?

	Living things	Man made non-living things
A.	3	6
B.	2	4
C.	3	4
D.	4	3

C	J	U	G	X	T	N
Y	Q	M	M	A	T	L
C	T	R	O	C	R	O
L	D	N	O	A	E	C
E	S	U	N	T	E	K
C	F	R	O	G	Z	N

SPACE FOR ROUGH WORK

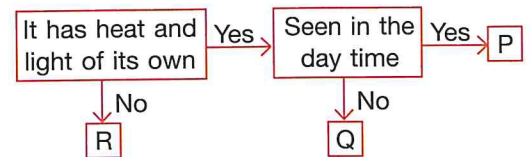
33. Study the given flow chart and select the correct option to fill empty spaces d, e and f.




- A. d - Jasmine, e - Pumpkin, f - *Hibiscus*
 B. d - Jasmine, e - Watermelon, f - Spinach
 C. d - Jasmine, e - Grapevine, f - Pumpkin
 D. d - Money plant, e - *Hibiscus*, f - Mint

34. Study the given flow chart carefully. Identify P, Q and R.

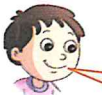
- | P | Q | R |
|------------------|------|-------|
| A. Sun | Moon | Earth |
| B. Cloud | Star | Moon |
| C. Constellation | Moon | Earth |
| D. Sun | Star | Moon |




35. Who among the following practises good habit?

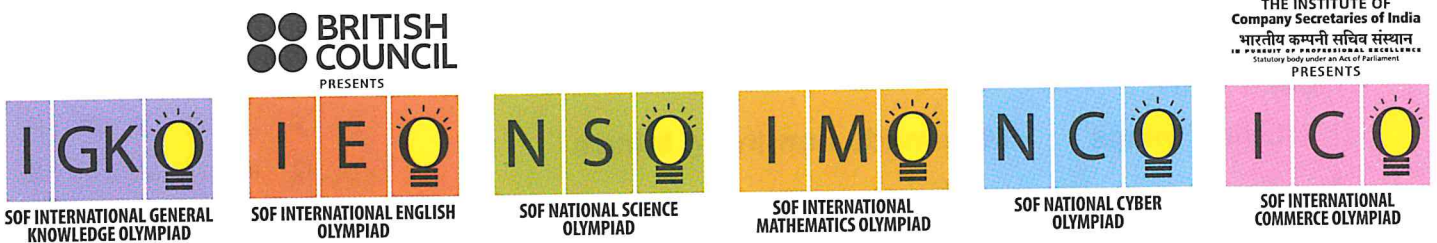
A.  I clean my nose using the sleeves of my dress.
Kritika

B.  After playing, I collect the scattered toys and put them in a big box.
Trisha

C.  During lunch time, in school, I climb the desk and play with my friends.
Abhishek

D.  I do not flush the toilet every time I use it.
Kabir

SPACE FOR ROUGH WORK



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