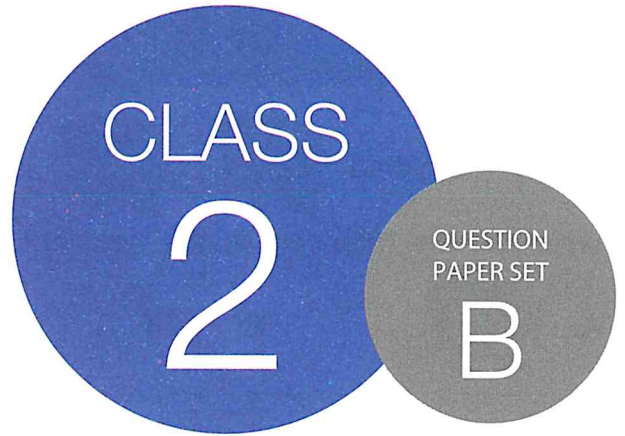


**SOF NATIONAL SCIENCE  
OLYMPIAD 2019-20**



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)

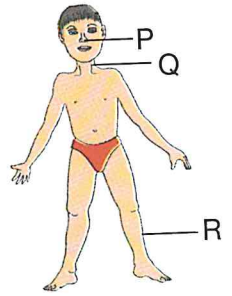





## SCIENCE

6. Select the INCORRECT statement regarding the given figure.

- A. R helps us to jump and clap.
- B. P helps us to differentiate between good and bad smell.
- C. Q helps us to move our head.
- D. Both B and C




7. Refer to the given conversation between four friends and find out the one who is correct.

A.  Rishi is my niece. He is the only son of my sister.

B.  I love talking to my aunt Mrs Sharma. She is the sister of my grandmother.

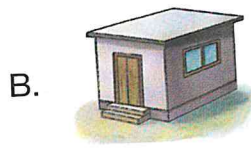
C.  My daughter has a cousin who is the son of my uncle.

D.  My friend has sisters only, thus his children do not have any real uncle.


8. Which of the following statements about the seed is true?

- A. It is a living thing as it can grow into a seedling.
- B. It dies when the mango fruit is plucked and eaten.
- C. It is not a living thing as it does not respond to changes in surroundings.
- D. Both A and C

9. Aheli is residing in a hilly area where snowfall is common. Which of the following could be Aheli's house?



10. Refer to the given box. Select the option that correctly identifies occupation of Mukesh

Mukesh is a \_\_\_\_\_. He sells .

- A. Blacksmith
- B. Tailor
- C. Chemist
- D. Greengrocer

-----  
SPACE FOR ROUGH WORK








22. Select the odd one out.

- A. Tube well      B. Well      C. Hand pump      D. Pond

23. Which of the following road signs tells you that you CANNOT overtake?

- A.       B.       C.       D. 

24. Read the given conversation between two friends Sumit and Navya and select the correct statement regarding it.



Sumit

A body builder should include more of eggs, fish and chicken in his/her diet.



Navya

Fruits and vegetables should be taken in less quantity as they are rich in fat and can make us obese.

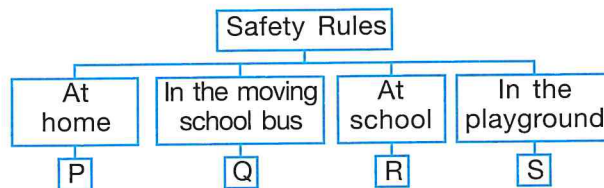
- A. Both Sumit and Navya are right.      B. Sumit is right but Navya is wrong.  
C. Both Sumit and Navya are wrong.      D. Sumit is wrong but Navya is right.

25. Select the clothing item that is made from the fibre whose name will be obtained by unscrambling the letters given in the box.

TTCNOO

- A.       B.       C.       D. 

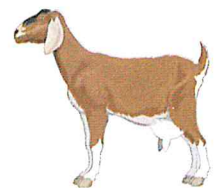
26. Study the given flow chart and select the INCORRECT option regarding P, Q, R and S.



- A. P - Do not play with sharp objects and fire.  
B. Q - Do not put any of your body parts out of the window.  
C. R - Run on the stairs but not in corridor.  
D. S - Follow the rules of the game and never fight with your friends.

27. Unscramble the given groups of letters and select the option that gives the sound of the animal shown here.

- A. YRBA      B. ELABT  
C. TCAREHT      D. ENIHG



SPACE FOR ROUGH WORK

28. Select the correct match in reference to the given word-chop table.

- A. Star nearest to Earth - 13, 16
- B. Planet also known as evening star- 2, 3
- C. Coldest planet of our Solar System - 5, 9, 12
- D. Red planet of our Solar System - 8, 7, 11

1	TU	2	MA	3	RS	4	MER
5	UR	6	UN	7	PI	8	JU
9	AN	10	NEP	11	TER	12	US
13	VE	14	TU	15	NE	16	NUS

29. What will happen to a lemon plant if we remove all the fruits from it?

- A. It will stop making food for itself.
- B. It will stop transporting food and water to all other parts.
- C. It will stop absorbing nutrients and water from the soil.
- D. None of these

30. The given signboard lists some of the safety rules that should be followed at home. However, it has some misfit safety rules. Identify these misfit safety rules and select the correct option.

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

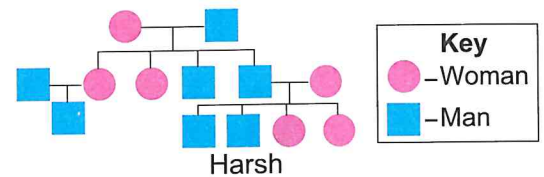
**Safety Rules**

1. Stay away from electrical wires and sockets.
2. Do not climb the moving bus.
3. Do not take medicines on your own.
4. Cross the road using a zebra crossing or a subway.

### ACHIEVERS SECTION

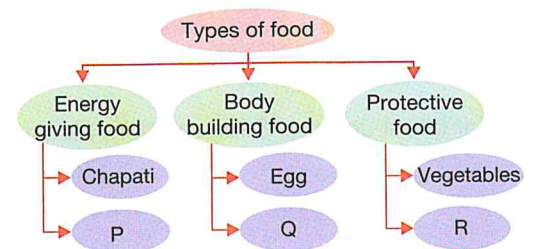
31. Study the given family tree of Harsh and select the correct option regarding it.

- A. Harsh's grandmother has three daughters and three sons.
- B. Harsh's grandfather has two married and one unmarried son.
- C. Both Harsh and his father have two sisters.
- D. Harsh has two siblings and one cousin.



32. Study the given flow chart and select the option which can fill the empty spaces P, Q and R correctly.

- A. P-Milk, Q-Fish, R-Oil
- B. P-Rice, Q-Bread, R-Sugar
- C. P-Bread, Q-Meat, R-Fruits
- D. P-Butter, Q-Jaggery, R-Rice

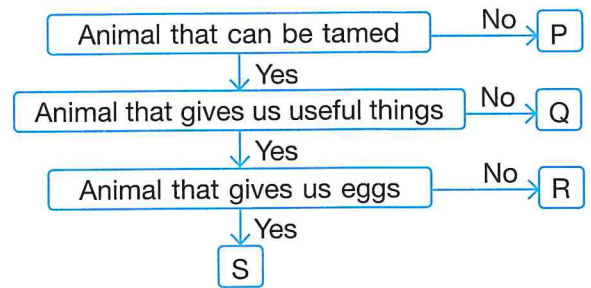


SPACE FOR ROUGH WORK



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

	P	Q	R	S
A.	Zebra	Goat	Honeybee	Sheep
B.	Giraffe	Dog	Horse	Hen
C.	Donkey	Hen	Camel	Goat
D.	Horse	Cat	Duck	Fish



34. Which of the following plants can be found in the given word grid?

- A. A plant with weak stem that grows along ground and its fruit is also known as Cinderella's carriage.
- B. A plant with weak stem that climbs up a support and bears green juicy fruits in bunches.
- C. A plant with thin and green stems, that is often eaten as a vegetable.
- D. A short, woody plant with thorns and red flowers.

P	T	S	G	P	Q	T	K	D
G	Z	P	P	E	V	I	N	E
C	O	I	E	L	Q	N	P	S
E	P	N	N	O	D	G	I	J
M	E	A	T	L	K	Q	Z	S
A	O	C	S	K	L	V	O	X
Q	T	H	O	M	R	C	V	S

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

**Column I**

- (a) Gold
- (b) Coal
- (c) Silica
- A. (a)-3, (b)-1, (c)-2

**Column II**

- 1. Costly metal, used for making jewellery
- 2. Used for making glass
- 3. For running steam engines
- B. (a)-1, (b)-2, (c)-3
- C. (a)-2, (b)-3, (c)-1
- D. (a)-1, (b)-3, (c)-2

SPACE FOR ROUGH WORK



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