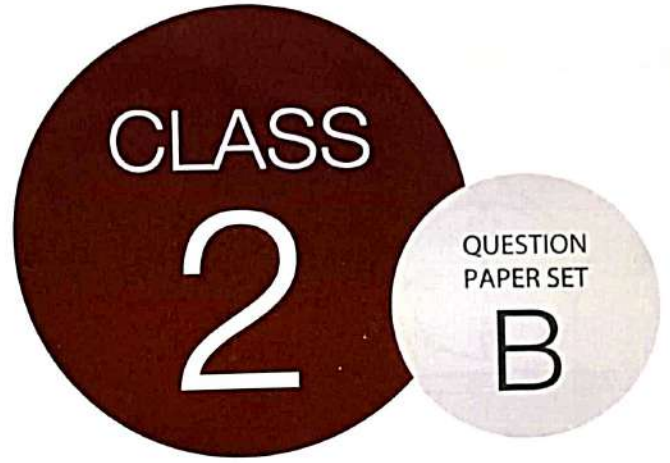




SOF NATIONAL SCIENCE OLYMPIAD 2022-23



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.
2. 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.
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. ● ○ ○ ○

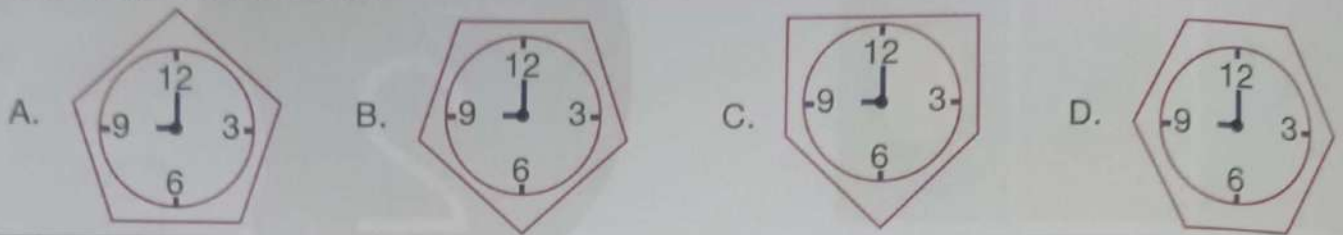





Name:.....

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







LOGICAL REASONING

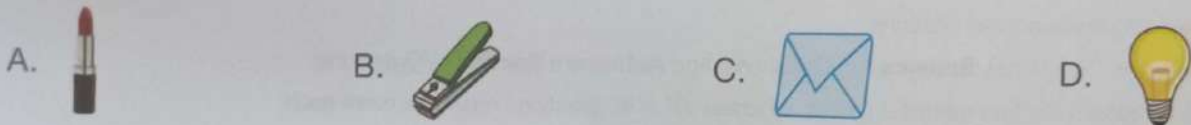
1. Select the odd one out.



2. If  is related to , then in the same way  is related to _____.

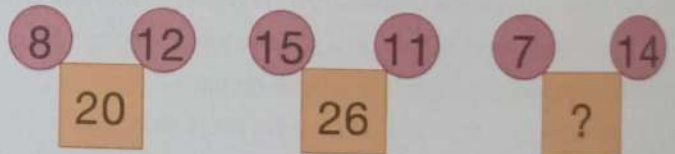


3. If  is called ,  is called  and  is called , then _____ is used to cut nails.



4. Find the missing number, if same rule is followed in all the three figures.

- A. 25
- B. 21
- C. 20
- D. 22



5. Ribbon badge _____ is fourth from the right end.



- A. R
- B. S
- C. O
- D. I

SPACE FOR ROUGH WORK

SCIENCE

6. Touch-me-not plant droops its leaves when touched. It shows that living things
- A. Can breathe
 - B. Can give birth to young ones
 - C. Can grow
 - D. Can move on their own.

7. Which of the following is a natural non-living thing?



8. We get gum from the _____ tree.

A. *Acacia* B. Oak C. Bamboo D. Jasmine

9. Select the option which correctly shows the relationship between number of seeds in different fruits.

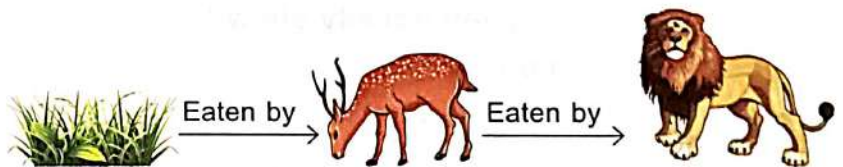
A. Mango = Litchi B. Watermelon < Cherry
C. Papaya = Peach D. Pear > Pomegranate

10. Select the correct match of animal and the thing we get from it.

A. Sheep – Honey B. Cow – Silk
C. Horse – Eggs D. Goat – Milk

11. In the given diagram, what would deer be called?

A. Prey animal
B. Pet animal
C. Domestic animal
D. None of these



12. You will go to the place shown in the given picture, when you

A. Are ill and have to see a doctor
B. Need to keep your money and jewellery safe
C. Have to post letters
D. Want to worship.



SPACE FOR ROUGH WORK

13. Select the INCORRECT option.

Vegetarian food

Non-vegetarian food

- | | |
|------------|---------|
| A. Cereals | Chicken |
| B. Pulses | Prawns |
| C. Meat | Chapati |
| D. Bread | Fish |

14. Which of the following activities is unsafe?



15. Look at the given picture of a room of a house. The good habits to be followed here include _____.

- A. Flushing toilet after every use
- B. Turning off tap after use
- C. Turning off shower after use
- D. All of these

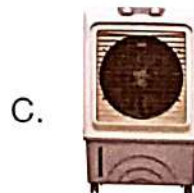
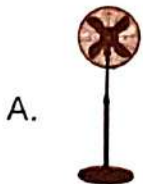


16. What does the given activity show?

- A. Air fills up space.
- B. Air is present all around us.
- C. Air has weight.
- D. Air is needed for burning.



17. Which of the following is used in winter season to stay warm?

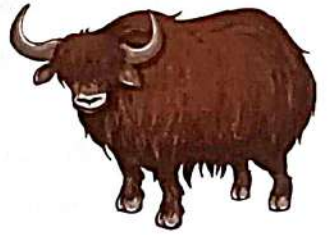


D. Both A and B

SPACE FOR ROUGH WORK

18. Which among the following plants has the longest life span?
- A. Coriander
B. Wheat
C. Jasmine
D. Banyan

19. We get _____ fibre from the animal shown here.
- A. Woollen
B. Cotton
C. Silk
D. Nylon



20. Select the INCORRECT statement(s).
- A. There are about 300 muscles in our body.
B. Facial expressions are controlled by muscle movements.
C. Heart does not have any muscles.
D. Both A and C

21. Vehicles which have engine run on fuel like _____.
- A. Petrol
B. Diesel
C. CNG
D. All of these

22. Which among the following is the same type of house as the one shown in the given picture?
- A. Bungalow
B. Tent
C. Caravan
D. Houseboat



23. Unscramble the given letters to find out the name of the fibre obtained from an insect.
- A. NLIEN
B. OTCTON
C. OWLO
D. ILSK

24. Strike out every alternate letter starting from the first one and select the option that gives the name of a festival which is also called the 'festival of lights'.
- A. BWLEMDNDTIRNSGU
B. RBMAPITSLAOKRHTIN
C. MDRISWPAOLBID
D. MHPOQLRIS

SPACE FOR ROUGH WORK

25. In case of cuts and wounds you should

- A. Not tie a bandage over it
- B. Never take any first aid
- C. Clean the wound with a piece of cotton dipped in an antiseptic liquid
- D. Never put a band-aid around it.

26. Which of the given statements is NOT correct for water?

- A. Water helps to digest our food.
- B. Water helps to keep our body cool.
- C. Water helps to flush out wastes from our body.
- D. None of these

27. Which of the following can be used by Raysha to go from Delhi to Mumbai?

- A.  B.  C.  D. 

28. Select the odd one out on the basis of types of means of communication.

- A. Landline phone
- B. Letter
- C. Post card
- D. Television

29. When a sick person coughs or sneezes, he/she releases _____ into the air which can make other people sick.

- A. Water vapour
- B. Smoke
- C. Dust
- D. Germs

30. Select the correct match from the following.

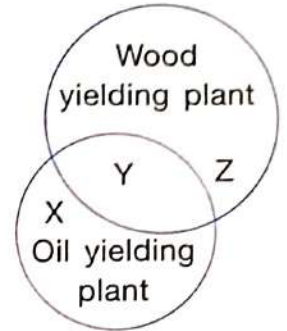
- A. Valley – Small low mountain
- B. Pond – Still water
- C. Plateau – Land surrounded by water on all sides
- D. Ocean – Freshwater

SPACE FOR ROUGH WORK

ACHIEVERS SECTION

31. Refer to the given diagram and select the option that correctly identifies X, Y and Z.

X	Y	Z
A. Teak	Mustard	Banyan
B. Coconut	Jasmine	Mango
C. Mustard	Neem	Sheesham
D. Cotton	Peepal	Deodar



Direction (Q. No. 32 and 33) : Refer to the given word grid and answer the following questions.

→	A	Z	R	L	L	M	K	K	M	T	S
↓	S	O	I	P	U	C	A	D	G	P	P
	T	A	B	L	E	T	E	N	N	I	S
	K	I	C	H	O	C	K	E	Y	L	H
	E	F	A	T	R	I	L	U	D	O	L
	G	A	G	N	P	F	U	M	E	Q	O
	C	H	E	S	S	Q	Q	B	J	I	R

32. Which of the following can you find in the given word grid?

- A. Internal organ that forms the urine
- B. Name for the framework of bones
- C. Bony structure that protects the lungs
- D. Sense organ that helps us to feel

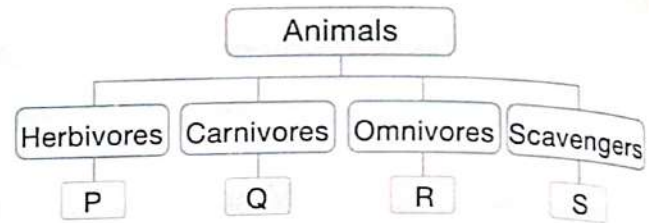
33. Select the name of a game that CANNOT be found in the given word grid.

- A. A two player indoor game that is played on a board with 64 black and white squares.
- B. A multiplayer outdoor game played between two teams with a ball and wooden sticks curved at the striking end.
- C. A two to four player indoor game played on a table with a ball and small rackets.
- D. A multiplayer game played with a rope.

SPACE FOR ROUGH WORK

34. Refer to the given classification chart and select the correct option about P, Q, R and S.

- A. P can be adult frog and R can be hawk.
- B. Q can be bear and S can be kingfisher.
- C. R can be sparrow and S can be vulture.
- D. P can be rhinoceros and Q can be zebra.



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

- | Column I | Column II |
|-------------------------------|-------------------------------|
| (a) Talcum Powder | 1. Granite |
| (b) Kitchen counter | 2. Marble |
| (c) Lotus Temple | 3. Sandstone |
| (d) Red Fort | 4. Talc |
| A. (a)-4, (b)-1, (c)-2, (d)-3 | B. (a)-2, (b)-4, (c)-1, (d)-3 |
| C. (a)-1, (b)-3, (c)-4, (d)-2 | D. (a)-1, (b)-2, (c)-3, (d)-4 |

SPACE FOR ROUGH WORK

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National Office: Plot 99, First Floor, Sector 44 Institutional area, Gurugram -122 003 (HR) India
 Email: info@sofworld.org | Website: www.sofworld.org
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