



**SOF NATIONAL SCIENCE
OLYMPIAD 2023-24**

CLASS
3

QUESTION
PAPER SET

A

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, 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: 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 before attempting the paper.
10. **For classes 8, 9 & 10, "Innovation Challenge" is being conducted by Techfest IIT Bombay in association with SOF. For details, please visit : www.sofworld.org/sof-techfest-iit-bombay-innovation-challenge2023**

16. ● (B) (C) (D)

Name:.....

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



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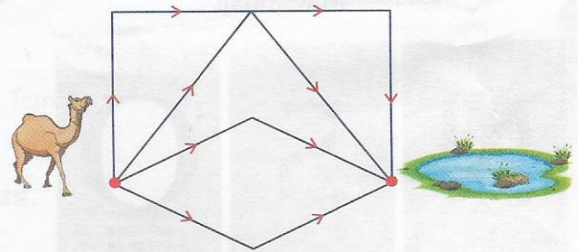
5.6+ Crores
Assessments

7
Olympiads

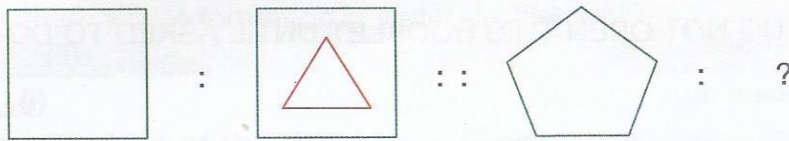
LOGICAL REASONING

1. In how many different ways, can the camel reach the pond?

- A. 5
- B. 7
- C. 4
- D. 6



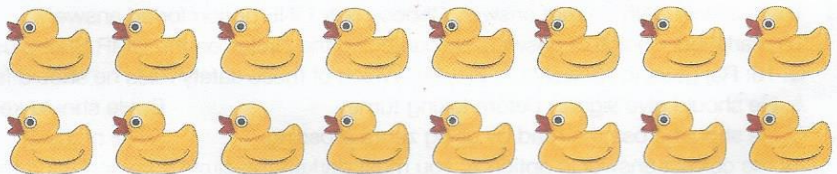
2. There is a certain relationship between the pair of figures on the either side of ::. Identify the relationship between the left pair and find the missing figure.



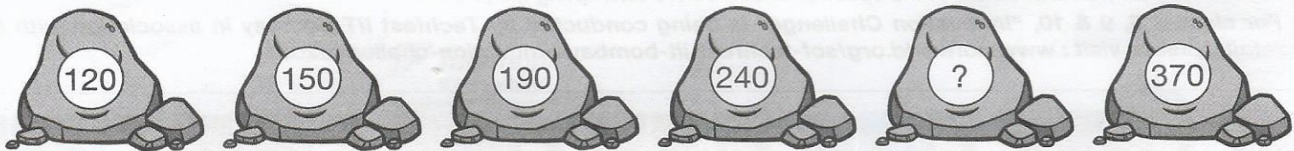
- A.
- B.
- C.
- D.

3. How many groups of 4 ducks each can be formed from the given ducks?

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



4. Find the missing number in the given number pattern.



- A. 320
- B. 360
- C. 380
- D. 300

5. Arrange the alphabets given below to form a meaningful English word and identify the category of that word.

ESHRO

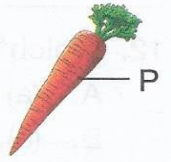
- A. Flower
- B. Animal
- C. Fruit
- D. Name of a month

SPACE FOR ROUGH WORK

SCIENCE

6. Look at the given picture and identify plant part P.

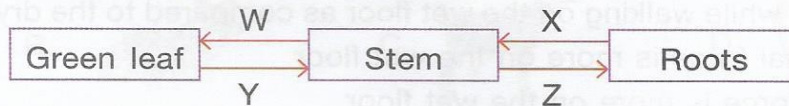
How is plant part P useful to a plant?



- (a) It holds the plant firmly to the soil.
- (b) It stores the food made by the leaves.
- (c) It absorbs water and mineral salts from the soil.
- (d) It transports water and mineral salts to all parts of the plant.

- A. (a) and (b) only
- B. (a) and (c) only
- C. (d) only
- D. (a), (b) and (c) only

7. Refer to the given flow chart.



Which of the following options represents the transported substances W, X, Y and Z correctly? (The arrows show the direction of movement of substances W, X, Y and Z.)

- | W | X | Y | Z |
|----------|-------|-------|-------|
| A. Water | Water | Food | Food |
| B. Food | Water | Food | Water |
| C. Water | Food | Water | Food |
| D. Food | Food | Water | Water |

8. Which of the following is NOT a characteristic of the bird whose foot is shown in the given picture?

- A. It is a flesh-eating bird.
- B. It is also known as the bird of prey.
- C. It lays the largest egg in the world.
- D. It has a hooked beak.



9. Unscramble the given letter groups to find out the name of a cooking method by which biscuits are made.

- A. OSANIGTR
- B. KNAIBG
- C. IINLGBO
- D. IESMTAGN

10. Preservation of food is done to

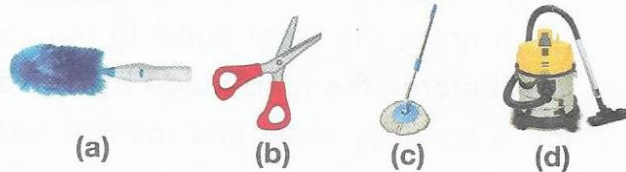
- A. Keep it fresh for a long time
- B. Prevent it from getting spoiled
- C. Keep the nutrients intact for a long time
- D. All of these.

SPACE FOR ROUGH WORK

11. *Mekhela chador* is a traditional dress worn by the women of which state?
 A. Kashmir B. Punjab C. Gujarat D. Assam

12. Which of the following items are used for cleaning purposes in the house?

- A. (a) and (b) only
 B. (a), (c) and (d) only
 C. (b) and (d) only
 D. (a), (b), (c) and (d)



13. Which of the following is a characteristic of synthetic fibres?

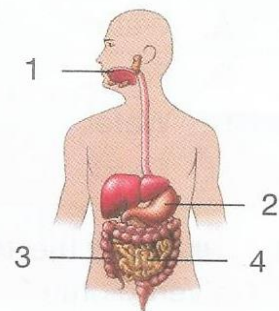
- A. They absorb less water B. They dry quickly
 C. They are wrinkle resistant D. All of these

14. We tend to slip while walking on the wet floor as compared to the dry floor. This is because

- A. Gravitational force is more on the wet floor
 B. Frictional force is more on the wet floor
 C. Frictional force is less on the wet floor
 D. Gravitational force is less on the wet floor.

15. Identify the labelled parts 1-4 of human digestive system in the given figure and answer the following question.

From which part of the human digestive system nutrients are absorbed into the blood stream?



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

16. For sending an e-mail the mobile/computer should be connected to _____.

- A. Fax machine B. Printer C. Cordless phone D. Internet

17. Which of the following phases of Moon immediately follows ?

- A.  B.  C.  D. 

18. Which of the following symbols shows 'canal' on a map?

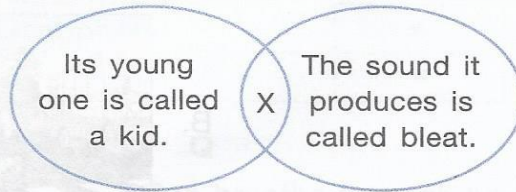
- A. ----- B. ~~~~~ C. ● D. 

SPACE FOR ROUGH WORK

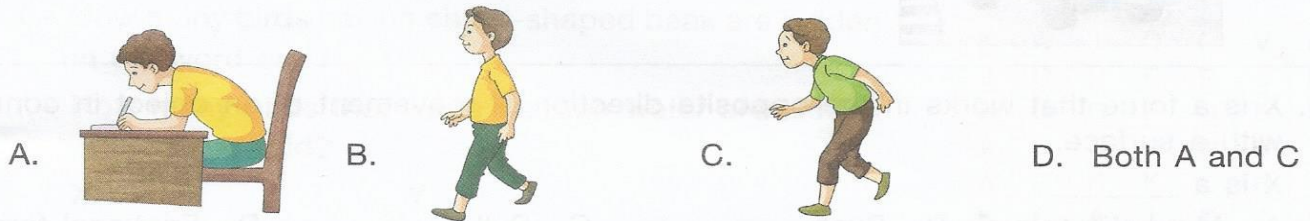
19. Which of these *mudras* (hand gestures) in dance depicts a deer head?



20. Study the given Venn diagram and identify animal X.

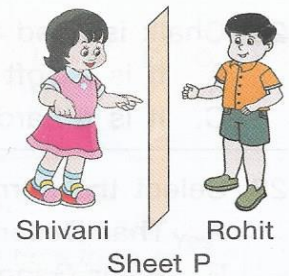


21. Which of the following options shows INCORRECT posture?



22. Rohit and Shivani were standing as shown in the given figure. Rohit waved to Shivani and she smiled in reply. Sheet P can be made of

- A. Wood
- B. Iron
- C. Rubber
- D. Glass.



23. Water is essential to us as

- A. It helps to remove waste materials from our body
- B. It helps to keep our body cool
- C. It helps in the digestion of food
- D. All of these.

SPACE FOR ROUGH WORK

24. Riddhi ran to open the door when her father rang the door bell. She used her sense of _____.

- A. Hearing B. Sight C. Touch D. Taste

25. Onam is celebrated in Kerala for _____ days.

- A. 2 B. 5 C. 10 D. 20

26. Which of the following kids is/are NOT following safety rules?



- D. All of these

27. X is a force that works in the opposite direction of movement of an object in contact with a surface.

X is a _____.

- A. Magnetic force B. Push C. Pull D. Frictional force

28. Chalk is used for writing on blackboards because

- A. It is a soft rock B. It is made up of sandstone
C. It is a hard rock D. It is made up of silica.

29. Select the correct statement.

- A. Thar Desert is located in South Africa.
B. River Ganga is one of the rivers of India.
C. Dal Lake in Andaman is a very famous lake of India.
D. Deccan Plateau is located in China.

30. Identify the road sign shown in the given picture.

- A. One way B. Speed breaker ahead
C. No overtaking D. Slippery road ahead



SPACE FOR ROUGH WORK

ACHIEVERS SECTION

31. Study the given table and select the option that best represents the headings P, Q and R.

Animal	P	Q	R
Goldfish	x	x	✓
Grasshopper	x	✓	✓
Emu	✓	x	✓

- | P | Q | R |
|------------------------------|---------------------------|-----------|
| A. Can fly | Can breathe through lungs | Has wings |
| B. Can fly | Lays eggs | Has wings |
| C. Has wings | Lays eggs | Can fly |
| D. Can breathe through lungs | Can fly | Lays eggs |

32. Refer to the given word grid and answer the following questions.

X – How many birds having chisel-shaped beak are hidden in the word grid?

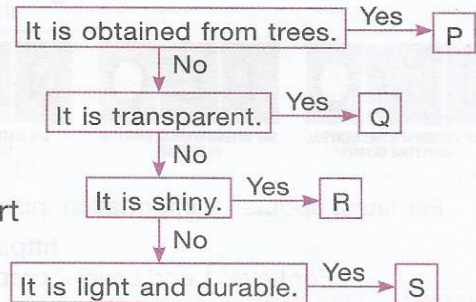
Y – How many birds that wade through water are hidden in the word grid?

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

- | X | Y |
|------|---|
| A. 2 | 1 |
| B. 3 | 2 |
| C. 2 | 3 |
| D. 1 | 1 |

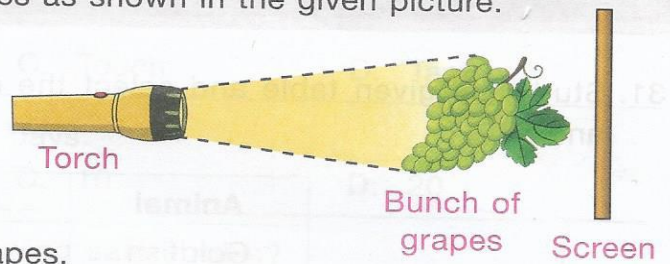
33. Refer to the given flow chart and identify the materials P, Q, R and S.

- | P | Q | R | S |
|----------------|------------|----------------|---------------|
| A. Tiffin box | Raincoat | Iron rod | Kite |
| B. Wooden door | Tyre | Plastic bucket | Glass tumbler |
| C. Glass | Book | Car | Cotton shirt |
| D. Paper | Windowpane | Steel glass | Plastic chair |



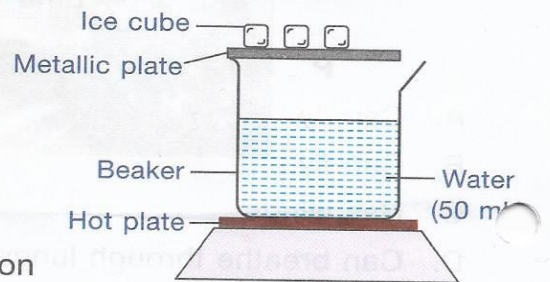
SPACE FOR ROUGH WORK

34. Veera shone a torchlight at a bunch of grapes as shown in the given picture. What can Veera do to enlarge the shadow of the bunch of grapes on the screen?



1. Shift the screen closer to the grapes.
 2. Shift the screen away from the grapes.
 3. Shift the grapes nearer to the torch.
 4. Shift the torch further away from the grapes.
- A. 1 and 2 only B. 2 and 4 only C. 1 and 3 only D. 2 and 3 only

35. Refer to the given experimental set-up and select the option that correctly fills the blanks in the given sentence.



After sometime, there will be formation of water droplets
 (i) due to (ii).

- | | |
|---|--------------|
| (i) | (ii) |
| A. On the outer surface of the beaker | Evaporation |
| B. On the hot plate | Condensation |
| C. On the ice cubes | Evaporation |
| D. On the underside of the metallic plate | Condensation |

SPACE FOR ROUGH WORK



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