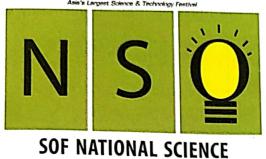


Techfest



OLYMPIAD 2024-25

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

CLASS 4

SET-B

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: Hard outer covering of the tree trunk is called
 - A. Bark
- B. Spine
- C. Branch
- D. Bud.

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 before attempting the paper.
- 10. Participate in SOF-Techfest IIT Bombay Innovation Challenge. Open for class 8, 9 & 10. For details, please visit: www.sofworld.org



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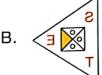
Olympiads



LOGICAL REASONING

- Vinit correctly remembers that his exam results will be declared after 19th April but before 23rd April. His mother correctly remembers that his exam results will be declared after 21st April but before 24th April. On which date Vinit's exam results will be declared?
 - A. 23rd April
- B. 21st April
- C. 22nd April
- D. 20th April
- Select the correct mirror image of the given figure, if the mirror is placed vertically to the right.







- D.
- Which letter should replace the question mark (?) to form two meaningful English words?
 - A. K
 - C. G

- B. E
- D. I

- W M ?
- Ankit is facing towards North. He takes a $\frac{3}{8}$ turn anti-clockwise, followed by a $\frac{5}{8}$ turn clockwise. In which direction is he facing now?
 - A. East
 - C. North

- B. West
- D. South

- W←
- Read the given information carefully and answer the following question. In a queue of five persons,
 - P is standing exactly in the middle.
 - S is standing just before P.
 - R is standing just after Q.
 - S is standing between T and P.

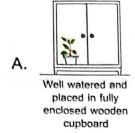
Who among the following is standing at the front of the queue?

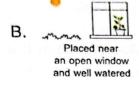
A. S

D. Q

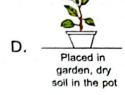
SPACE FOR ROUGH WORK

6 In which of these conditions, the potted plant would be able to carry out the process of making food?









Refer to the group of animals given in the box and select the correct option regarding them.



- A. They all are vertebrates.
- B. They all breathe through skin and gills.
- C. They all have their bodies covered with scales.
- D. They all lay eggs.
- 8 Select the option that correctly identifies the total number of different types of teeth in an adult human.

	Incisor	Canine	Premolar	Molar
A.	6	4	2	10
В.	4	2	8	12
C.	8	4	10	8
D.	8	4	8	12

Which one of the following clothing items is made of leather?









D.

- Unscramble the given letters to obtain the name of a method that can be used for separating heavier and lighter components of a mixture with the help of blowin air.
 - A. IGSNVIE
- B. APIGKHINCDN
- C. HSNTREHGI
- D. NIONWGWIN

SPACE FOR ROUGH WORK

Steering wheel: Scissors Fork: Ramp Jution? Gale D. Both A and B n as seen from Earth on different night September 11 rrect shape of Moon on 1st September D. Aquatic plant Y Stomata absent at gives birth to young ones?
n as seen from Earth on different night September 11 rrect shape of Moon on 1st September D. Aquatic plant Y
September 11 rrect shape of Moon on 1st September D. Aquatic plant Y
September 11 rrect shape of Moon on 1st September D. Aquatic plant Y Stomata absent
D. Aquatic plant Y
D. Aquatic plant Y
D. Otion that correctly identifies X and Y Aquatic plant Y
Aquatic plant X Stomata absent
Aquatic plant X Stomata absent
plant X Stomata absent
Y absent
at gives birth to young ones?
it gives birth to young ones?
· 3
D. None of these
and one protozoan disease togeth y formed group.
resents
Definite volume a b c Defi
d
Definite mass PRK

Which of the following options correctly categorises the materials given in the box? Œ 1. Rubber 2. Aluminium 3. Iron 4. Wood 6. Copper 7. Silver 5. Plastic Electrical conductor Electrical insulator A. 1, 3, 5, 6 2, 4, 7, 8 B. 2, 3, 6, 7, 8 1, 4, 5 C. 1, 4, 5, 8 2, 3, 6, 7 D. 2, 3, 6, 7 1, 4, 5, 8 Identify the process shown in the given picture. Which of the following mixtures can be separated by this process? Beaker 1 A. Salt and water After B. Sugar syrup and water some-Glass rod time C. Sand and water D. Honey and water Beaker 1 Beaker 1 Beaker 2 Read the given statements about bird X and identify it. It is a flightless bird. It makes its nest using stones and pebbles. · It has flippers which help in swimming. Now, select the option that correctly identifies the type of feet of bird X. A. Wading feet B. Climbing feet C. Webbed feet D. Perching feet Refer to the given list of food items and select the option that correctly identifies the food items that are traditionally cooked by frying. 1. Cake 2. Dhokla 3. Poori 4. Idli 5. Jam 6. Samosa 7. Pizza 8. Biscuit 9. Pakora 10. Bread A. 1, 5 and 7 only B. 3, 6 and 9 only C. 2, 4 and 10 only D. 5, 7 and 8 only Refer to the given diagram. Fibre X could Manufactured Catches fire Fibre X be using chemicals very easily A. Fur Wrinkle-free and non-biodegradable B. Cotton C. Polyester D. Linen SPACE FOR ROUGH WORK

	A.	Submarine	Б.	Ropeway		_			
<u> </u>				n of an organ	name and	its total num	ber in an	adult h	uman body.
24)	Se	Bones – 30	nect mate.	Muscles -	100 C.	Liver - 2	D.	Kidne	ey - 2
	Α.								
25	Sel	lect the cor	rect state	ment.	l ll- of fro	on dases fo	ocks and	dust.	
	Α.	Comets are	small ce	lestial snow	balls of Iroz	its own ligh	nt, it refle	cts the	light it gets
		from the Er	arth						
	_	Thous is a	an of ah	out 28 days	between N	ew Moon a	nd Full M	oon.	
	D.	When the M	loon com	es in betwee	n the Sun a	nd the Earth	i, we obse	erve a I	unar Eclipse
9	Whi	ich of the fo	ollowing	paper cuttin	gs will loll		0.01.2.5	5	3
					0			o. /	10
	۹.		В.		C.			<i>J</i> .	
		Butter paper		Sand paper		Cellophane	paper	Tra	cing paper
F	sele	ct the opt	ion that os that in	ram of wate correctly ic volve heat o	dentifies t	ne (32 32 32 3		333	R
F A	sele proc l. F B. R	ect the opt cesses/step	ion that os that in ly y	correctly id	dentifies t	ne			Q III IIIs
F A E	sele proc a. F B. R c. P	ect the opt cesses/step and Q onl and S onl	ion that os that in ly y y	correctly id	dentifies t)) (Ocean) 	R
	sele oroc A. F B. R C. P,	ect the opt cesses/step P and Q onl R and S onl P and R onl Q, R and at the iter	ion that os that in y y y S on shown	correctly id	dentifies tigain.	and select t	the optio	n that	Q S Land
F A E C C D	sele orod A. F B. R C. P, Ook	ect the opt cesses/step P and Q onl R and S onl P and R onl Q, R and at the iter	ion that os that in y y y S on shown	correctly id volve heat g	n picture a	and select t	the optio	n that	Q S Land
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X is a special means of transport used in hilly areas that does not run on land.

C. Sledge

What could be X?

D. Palanquin

- Select the option that correctly fills the given blanks (i) and (ii).
 - P. Clothing items made from animal fibres like _(i)__ are worn during winter season.
 - Q. You should never touch chemicals like __(ii)__ kept at your home.
 - A. (i)-Linen, (ii)-Ghee

B. (i)-Rayon, (ii)-Acid

C. (i)-Wool, (ii)-Phenyl

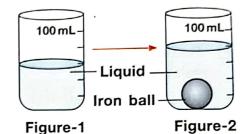
D. (i)-Silk, (ii)-Coconut oil

ACHIEVERS SECTION

A beaker was taken with certain volume of liquid as shown in the figure-1. Then, an iron ball was immersed into the same beaker as shown in figure-2.

Which of the following interpretations is INCORRECT regarding the given experiment?

- A. The reading of the level of liquid in the beaker in figure-2 gives the total volume of liquid and the iron ball.
- B. The difference in the levels of liquids in figure-1 and figure-2 gives the volume of immersed iron ball in figure-2.

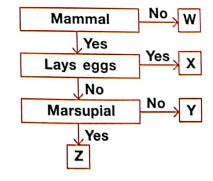


- C. Volume of liquid remains same in both the figures 1 and 2.
- D. The volume of liquid in the beaker of figure-2 will increase after immersing the iron ball.
- Which of the following statements are correct regarding the given two planets?
 - (i) They have one and two moons respectively revolving around them.
 - (ii) They do not have rings around them.

Earth, Mars

- (iii) They are made up of gases and do not have solid surfaces.
- (iv) Both of them rotate from East to West direction.
- A. (i) and (iii) only
- B. (ii) and (iii) only
- C. (i) and (iv) only
- D. (i) and (ii) only
- Refer to the given flow chart and select the option that correctly identifies W-Z.





SPACE FOR ROUGH WORK

3

Match the columns and select the correct option from the given codes.

Column I

Column II

(Place)

(Traditional outfit)

P. Kashmir

(i) Mundu

Q. Gujarat

(ii) Neriyathu

R. Maharashtra

(iii) Pheta

S. Kerala

(iv) Kediyu

(v) Phiran

(vi) Nauvari saree

A. P - (iii); Q - (ii), (v); R - (i); S - (iv), (vi)

B. P - (iv); Q - (i), (ii); R - (v); S - (iii), (vi)

C. P - (v); Q - (iv); R - (iii), (vi); S - (i), (ii)

D. P - (i), (vi); Q - (v); R - (iii), (iv); S - (ii)

35 ₽

Read the given statements and select the option that correctly identifies true (T) and false (F) ones.

- (i) Iron and calcium are the main minerals responsible for maintaining water balance in human body.
- (ii) Tongue has tiny bumps called villi that help in identifying different tastes.
- (iii) Dentine is the soft substance that fills the empty space within the tooth.
- (iv) Sleeping sickness and athlete's foot are the diseases caused by fungi.

(iv) (i) (ii) (iii) A. T F Т F F F F B. F F Τ T C. F Т Т D. T

SPACE FOR ROUGH WORK

















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