

Through Knowledge Olympiad

CLASS 4 SET-B

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Name:	2016-17
Section:	Roll No.:
Contact No.	
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.
- Write your Name, School Code, Class, Section, Roll No. and % of marks/grade in last class clearly on the OMR Sheet and do not forget to sign it.
- 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 in 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 in 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 space on top of this page before attempting the paper.

LOGICAL REASONING

 Trishika started working in the morning as shown on the clock and stopped working after 8 hours and 30 minutes. Minute hand on the clock to show the time Trishika stopped working is _____.



A. 5

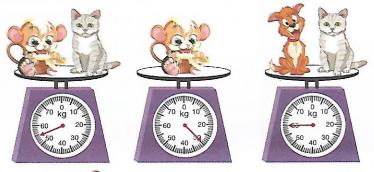
C. 7

D. Between 5 and 6

- 2. Which of the following group of alphabets is missing in the given logo?
 - A. KLM
 - B. TKW
 - C. OIP
 - D. XCD



3. Who is the heaviest?



Α.



В.



C.



D. Can't determine

4. Select the odd one out.



B.



C.



D.



5. Which of the following options will complete the given number pattern?

11382

11399

11418

11439

?

- A. 11462
- B. 11569
- C. 11468
- D. 11489

Which of the following leaves belongs to the plant whose flower is shown here?





B.



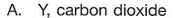




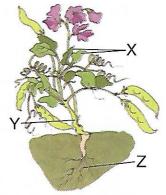
Refer to the given picture of a plant with some of its parts labelled as X, Y and Z.

In the absence of part _____, the plant cannot make its food, because it will not have _____.

Select the option that correctly fills the blanks in the above given statement.



- B. Z, water
- C. X, chlorophyll
- D. Both B and C



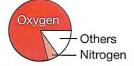
- Mangrove plants grow in special swampy areas. In order to grow well, they have developed _____.
 - A. Stems that store water

B. Leaves that have abundance of chlorophyll

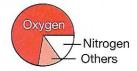
C. Fruits that do not rot

- Roots that grow above the soil
- The Earth's atmosphere is made up of various gases. Which of the following best describes this composition of gases?

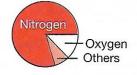




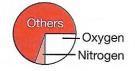
B.



C.



D.



10. All the animals given here have the same number of different stages in their life cycles except one. Identify this odd animal.





C.





- 11. Select the unhealthy food habit from the following.
 - A. We should eat our food in small bites and chew it properly.
 - B. We should eat food at regular intervals.
 - C. Our dinner should be the heaviest meal of the day.
 - D. Our diet should include plenty of fruits and vegetables.
- 12. How can you preserve X (Juice) and Y (Peas) for longer period without much affecting their taste?

	X	Y
A.	Refrigerating	Drying
В.	Steaming	Boiling
C.	Canning	Freezing
D.	Jellying	Heating

13. Refer to the given conversation among three friends and select the correct option.



I saw a documentary about people who move from one place to another. They live in X.



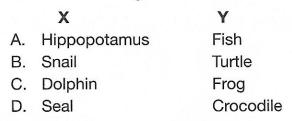
My grandfather was posted in areas with heavy rainfall for ten years. Y are very common there.

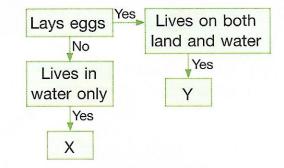


I will build a Z for me someday with a large lawn and at least ten rooms.

- X can be caravans or tents.
- C. Z can be bungalow.

- B. Y can be stilt houses.
- D. All of these
- 14. Select the option that correctly identifies the animals X and Y in the given flow chart.

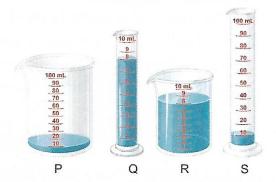




15.	The	e man in the diagram will					6
	A.	Fall because the banana peel will reduce gravity					(6)
	В.	Not fall because the banana peel will not reduce gra	avity				9767
	C.	Fall because the banana peel will reduce friction b	etween	his sh	oe	(2)	P J W
		and the ground				[]	
	D.	Fall because the banana peel will increase friction band the ground	etweer	his sh	oe _		DE LA
16.	Wh	ich of the following is a non-verbal means of comr	nunica	tion?			
	Α.	Mime B. Radio C. Lette	er		D. Ne	wspape	er
17.		mesh while climbing up a hill started panting. His	sy	stem h	as to d	o extra	efforts
	A.	Reproductive B. Respiratory C. Excr	etory		D. Dig	jestive	
18.	A. B. C.	A spinning top A moving merry-go-round An ox tied to and moving around a central pole A ball sliding on the floor	move	ment o	f Earth.		
		on: Refer to the given word-chop table and the questions 19 and 20.	1 COT	2 SI	3 RUB	4 WO	5 NY
19.	Na	mes of some fibres are hidden in the given	6	7	8	9	10
	wo	rd-chop table. Clothing items that can protect from extreme CANNOT be made from	LON	PLAS	TON	PAP	ER
		of these fibres.	11	12	13	14	
	Α.	Cold B. Hot	OD	LK	TIC	BER	
	C.	Rain D. None of these	<u></u>				
20.		mes of some materials are hidden in this word- NNOT be made of any of these materials.	chop t	able. S	Select	the ite	m that
	A.	B. C.			D. 🐧	MEWS	and the state of t

21.	Refer to the given figure of human digestive system. What will be the outcome if the part labelled X is removed?								
	A.			will not occur					
	В.			food will not o					
	C.	Removal of f			occur.				
	D.	Both A and E		not occur.				X	
	υ. ———	Both A and I			***				20
22.				options and s urface of Earth			s term us	sed for many bow	
	A.	EOLPS	B.	YALLVES	C.	RRATCES	D.	XIAS	
23.	In v	which of the f	following	setups, a brig	ht patch	of light will b	e found o	on the screen?	
Harrison -	C.	00	0	Screen	D.	0	0	Screen	
24.	Ray	vi grouped simup. Find out	nilar types this odd (of transport m group.	neans tog	ether. In doing	g so, he m	nade one incorrect	
	A.	Ferry, Boat, S	Ship		B.	Airplane, Hel	licopter, H	lot air balloon	
	C.	Bus, Car, Aut	to ricksha	w	D.	Hovercraft, J	let, Ship		
25.	Cal	cium, iron, po	otassium.	iodine and co	ommon sa	alt are examp	les of		
	A.	Minerals		Carbohydrates		Vitamins		Proteins	
26.	Sel	ect the item ernate letter s	that is Notarting fro	om the first on	g the ma le in the o	given box.	I get by	striking out every	
	A.	Crayons	В.	Television		Pressure cod	oker D.	All of these	
27.	Sel	ect the bird w	vhich will	have similar k	kind of be	ak as that of	a sparro	W.	16
	A.	Eagle	В.	Woodpecker	C.	Swallow	D.	Hummingbird	
28.	The	herd of lions	s is called	l					6
		Mane		Badger	C.	Pride	D.	Mink	
				SPACE FOR	R ROUGH W	ORK			10

- 29. Activities like _____ are technically not considered as doing work in science because . Select the option that can correctly complete the above statement.
 - A. Reading, no force is applied and no movement of objects occurs
 - Pushing a stationary wall, no force is applied
 - C. Thinking, no movement of objects occurs
 - D. Both A and C
- 30. Arrange the following containers in order of the amount of water contained in them and select the correct option.
 - A. R > Q > P > S
 - B. R < Q < P < S
 - C. R = Q > P = S
 - D. R = Q < P = S



ACHIEVERS SECTION

31. Three dry soil samples X,Y and Z of equal weights (4 gm) were taken on a filter paper and 50 mL water was poured separately over each of them. After that, they were weighed. Their weights after wetting are tabulated here.

Which of the soil samples is most likely to be sandy soil?

- A. X
- B. Y
- C. Z
- D. Cannot be determined

Soil samples	Weight after wetting
Χ	13 gm
Υ	20 gm
Z	8 gm

2. The given graph shows the distance between the particles in three samples (P, Q and R) having water in different states of matter.

Which of the following will NOT have

- X Fixed shape only?
- Y Fixed shape and volume?

_

Y

X

Y

A. R

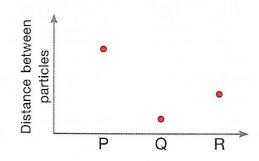
Q

B. R

Ρ

C. P Q

D. P



33. Select the material that can be grouped with the materials in the given table based upon a similar feature.

A. Plastic

B. Metal

C. Magnet

D. Wool

	Material :	S
	Cotton	
	Paper	
	Soil	
_		

34. The axis of the Earth is tilted at an angle. This explains why the

- A. Northern hemisphere is away from the Sun and the Southern hemisphere is towards it.
- B. Southern hemisphere is away from the Sun and the Northern hemisphere is towards it.
- C. Season in the Northern hemisphere can never be the same as the season in the Southern hemisphere
- D. All of these

35. The force of gravity is different on different planets. The given table shows how high car Shashi jump on three different planets with same effort.

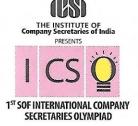
Now, select the correct option regarding it.

A. It will take more time for a ball of same mass to fall down from same height on planet X than planet Z. Planet X Planet Y Planet Z

0.25 m 1.5 m 0.5 m

- B. Planet Y has three times more gravity than planet X.
- C. Planet Z has two times more gravity than planet X.
- D. A ball of same mass will fall down later on planet Y than on planet Z when dropped from the same height.

SPACE FOR ROUGH WORK













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Head Office: Plot No. 99, Sector 44, Gurgaon - 122 003 (HR) | Email: info@sofworld.org | Website: www.sofworld.org Regd Office: B-8 Taj Apartment, Ring Road, New Delhi - 110 029