

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Total Questions: 35 | Time: 1 hr.

Name: FIZA ZUHRAH	-3
	-4
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Section: SOF Olympiad Roll No.:	Contact No.:

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.
- 16. B © 0

- 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.



LOGICAL REASONING

1. The codes for some letters are given below.

Letters	N	S	U	R	Α	V	Е	0
Codes	_	©	+	@	!	×	\$	#

Find the code for REASON.

A. @\$!@#-

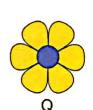
B. @\$!#×#

C. @\$©!#-

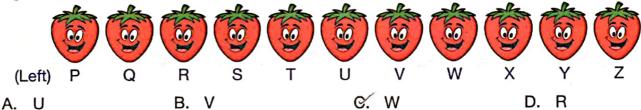
D. @!\$©#x

- Which of the given figures has a line of symmetry?
 - A. Only P
 - B. Only Q
 - ♥. Both P and Q
 - D. Neither P nor Q

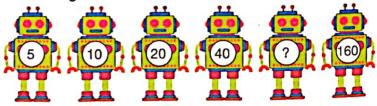




3. Which of the following strawberries is fourth to the right of ninth strawberry from the right end in the given arrangement?



- 4. Find the missing number in the number series given below.
 - A. 60
 - **B**. 120
 - C. 100
 - D. 80



5. Select a figure from the options which will complete the given figure pattern.

A.



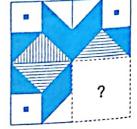
C.



B.



D.



SCIENCE

- 6. Which of the following statements regarding eating habits of birds is correct?
 - A. Kite is an omnivore.

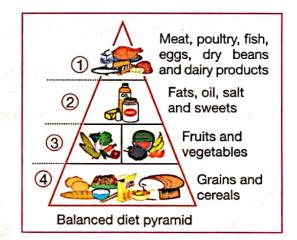
B. Vulture is a herbivore.

C. Crow is an omnivore.

D. Eagle is an omnivore.

- 7. Unscramble the following options and select the one that gives term used for bowl like hole found on the surface of Earth's natural satellite.
 - A. EOLPS
- B. RIOTB
- **©**. RRATCE
- D. XIAS

- Nidhi drew a balanced diet pyramid as shown in the figure but made some mistakes. Select the correct option regarding it.
 - A. Food items in block (1) should be replaced by food items in block (4).
 - B. Food items in block 2 and 3 should be interchanged.
 - C. Food items in block (1) and (2) should be interchanged.
 - D. Food items in block 3 should be replaced with food items in block 4.



- 9. Refer to the given figure. Which of the following can P be?
 - A. Oxygen

B. Water vapour

C. Nitrogen

D. Both A and B



- 10. Ronita lives in Delhi, her house is in a building where many other families live on different floors. Maitri lives in a village, her house is small and is made up of bamboo, mud, etc. Select the correct option regarding this passage.
 - A. Ronita lives in a bungalow.

B. Maitri lives in a tent.

C. Ronita lives in an apartment.

D. Maitri lives in a caravan.

11. Fibre X is obtained from the fruit of a plant while fibre Y is obtained from an animal.

Fibres X and Y are respectively

A. Cotton, Wool

B. Rayon, Silk

C. Flax, Silk

D. Coir, Linen.

12.	Match column I with column II and select t	he co	Column II
	Column I	1.	Make you feel uncomfortable
	(a) Dirty clothes	1. 2.	Can make you sick
	(b) Tight clothes		Protect you from rain
	(c) Warm clothes	3.	
	(d) Cotton clothes	4.	Protect you from cold
	(e) Waterproof clothes	5.	Make you feel cool
	A. (a)-1, (b)-4, (c)-3, (d)-2, (e)-5		(a)-5, (b)-3, (c)-2, (d)-1, (e)-4
	C. (a)-2, (b)-1, (c)-4, (d)-5, (e)-3	D.	(a)-3, (b)-2, (c)-4, (d)-1, (e)-5
13.	Select the option which on unscrambling g biscuits are made. A. EIGSANTM B. IIBNOGL		he name of a cooking method by which ANICGNN D. KIBGAN
14.	Ravi needs a material which does not melt should use A. Wood B. Metal		ly to make a see through container. H Plastic D. Glass
15.	Refer to the given conversation among three		
	should have material P that allows sunlight to pass through.	prote	up of R to protect my glass toy kept inside it from breaking.
	Kavish Mohan		Ishita -
	Now, select the correct option regarding P, Q		
	A. P can be wood.		Q can be cotton.
	R can be thermocol.	D.	None of these
16.	. Christmas is celebrated during which seaso	on in	India (P) and in Australia (Q)?
	P-Winter, Q-Summer	В.	
	C. P-Winter, Q-Spring	D.	P-Winter, Q-Autumn

SPACE FOR ROUGH WORK

Adaptation

B. Aestivation -

D. Blowhole

17. Select the correct match Adaptation

A. Mimicry

C. Blubber

Animal

Cow

Hawk moth caterpillar

Animal

Fish

Polar bear

18.		fer to the given vich CANNOT be f		elect the opti	on C	G H L E	-	C E	G K M L
	Α.	Fastest means of		nication	В	I C		LE	N C
	В.	Audio means of		1	S	U B		-	NE
		Vehicle used for		onle to hospit	al O	ET	TD	U C W P	K P Z D
	۵. D.	Vehicle used by			J J	R K		W P P C	KR
	Wh	ich of the followi	ng is a correct s	statement?			-		
15.	Which of the following is a correct statement?								
	 A. Woodpecker makes its nest by scraping piles of mud. B. Weaver bird makes its nest by sewing leaves with materials like wool, thread, hair, etc. 							air, etc.	
	В.	Penguin makes i							
		T	is nest on the gi	ourid with per	טאונט מוומיס				
		All of these		2-					
20.	Po Wh	orvi shone a torcl ich of the followin	h on two objects	s to cast theirs the shape of	r shadow of of the shado	n the sow?	screen	as shov	vn here.
	A.		в. 🔵 д						
	C.		D		Torc	h			Screen
	In the in a Sel state X. C.	fer to the given pine. P, Q and R. The absence of part absence of part the option the tement. Q, P P, R	art, the place, the place at correctly fills	lant cannot re cannot make the blanks in B. D.	produce when food. the above R, Q P, Q	nereas given			P. Leaves
22	Pai	jiv saw a bird swi	imming in water.	Which kind	of foot cou	ld the	bird ha	ve?	
	X.		В.	C.	E ST		D.		
 23.	Pe	ople wearing this	type of dress b	elong to whic	ch profession	on?		3	
	A.	Waiter							
	В.	Postman							
	e.	Lawyer							
	D.	Chef							
			SPACE	FOR ROUGH W	ORK				

24. Zara observed the New Moon on 18th August. Select the option which correctly shows the phases of the Moon that Zara will observe on 31st August and 7th September.

31st August A.



7th September



31st August



D.

B.

7th September



25. Zain observed two animals P and Q in his locality and tabulated their characteristics as

Select the option which correctly identifies these animals. Q

Frog

P

Ά.	Butterfly	
B.	Sparrow	

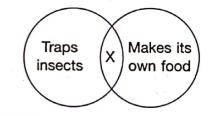
Grasshopper C. Koala bear Dolphin Bat Housefly

Characteristics	Animal P	Animal Q
Gives birth to young ones	Yes	No
Has four stages in life cycle	No	Yes
Young one resembles the adult	Yes	No
Has wings	Yes	Yes

- 26. Study the given Venn diagram and identify X.
 - A. Fern
 - B. Dodder
 - C. Hydrilla

D. Polybag

D. Pitcher plant



27. Study the items listed in the given table. Which of the following options correctly identifies X and Y?

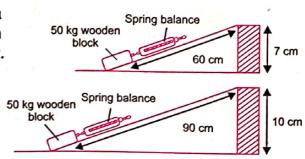
	X	Υ
A.	Animal excreta	Tea leaves
Ø.	Jute bag	Tubelight
C.	Metal can	Banana peel

Group 1	Group 2
Plastic mug	Cotton handkerchief
Steel container	Paper envelope
X	Υ
Glass jar	Wooden chair

28. Pallavi wants to find out whether the length of a ramp affects the force needed to move a wooden block up the ramp. She sets up the given experiment. What should she keep the same?

Bulb

- A. The height of both the ramps
- B. The length of both the ramps
- C. The weight of spring balance
- D. Both A and B



- 29. Which of the following processes do NOT consume heat?
 - Condensation
- 2. Evaporation
- 3. Freezing
- 4. Melting
- 5. Boiling

- A. 1, 2 and 5 only
- B. 1 and 3 only
- ©. 2, 4 and 5 only
- D. 3, 4 and 5 only
- 30. Select the organ that does NOT belong to that organ system to which the other three organs belong.
 - A. Heart
- B. Brain
- C. Blood vessels
- D. Blood

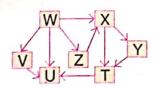
9

ACHIEVERS SECTION

- 31. The given graph shows the changes in the number of fish in a water body over a year. Select the correct option regarding this. of fish
 - A. At time W, some factory was established near the water body that discharged its used water in it.
 - B. At time Y, large amount of oil was accidentally spilled into the water body.
 - 8. At time Z, large amount of domestic sewage and garbage was thrown into the water body.
 - D. Both A and B
- 32. Manay gently pushed down a toy car from top of a racing track as shown in the diagram. The arrows show the direction of movement of the car. Which of the following statements are INCORRECT?
 - 1. The car has the most gravitational potential energy at P. F
 - 2. The car has the most kinetic energy at P.
 - 3. The car used up all its energy at U.
 - 4. The car has the least kinetic energy at R.
 - 5. The car has the most kinetic energy at U.
 - A. 1 and 3
- B. 1 and 5
- C. 2, 3 and 4
- D. 2, 4 and 5
- 33. Which of the labelled areas in the Venn diagram represent the stomach and the large intestine respectively?
 - M. P and S
 - B. S and Q
 - C. R and S
 - D. P and Q

Organ where food is Organ for mixed with digesting acid to kill food the germs Organ for absorbing water

- 34. Refer to the given food web and select the INCORRECT option regarding it.
 - A. W is the only producer while U is the only top consumer in the given food web.
 - B. X is an omnivore whereas Y and T are carnivores in this food web.
 - C. There are five interconnected food chains in this food web.
 - D. V and Z are the only herbivores.



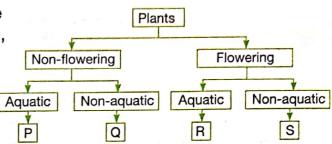
35. Refer to the given flow chart and select the option that correctly identifies the plants P, Q, R and S.

A. R - Bryophyllum, S - Sundew

VB. S - Gulmohar, Q - Fir

C. P - Duckweed, R - Arrowhead

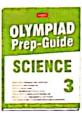
D. P - Water hyacinth, Q - Pine



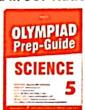
SPACE FOR ROUGH WORK

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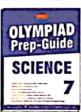
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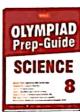












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