

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Total Questions: 35 | Time: 1 hr.

Name:	
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.



- 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

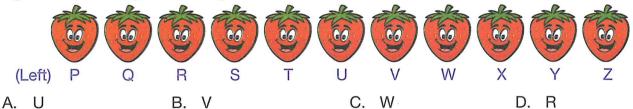
2. Which of the given figures has a line of symmetry?

- A. Only P
- B. Only Q
- C. Both P and Q
- D. Neither P nor Q



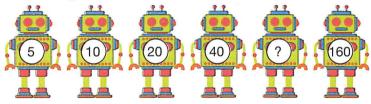


3. Which of the following strawberries is fourth to the right of ninth strawberry from the right end in the given arrangement?



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.

Α.



В.





C.



D.

SCIENCE

6. Which of the following statements regarding eating habits of birds is correct? B. Vulture is a herbivore. Kite is an omnivore. Eagle is an omnivore. C. Crow is an omnivore. 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. D. XIAS B. RIOTB C. RRATCE A. EOLPS Nidhi drew a balanced diet pyramid as shown in the Meat, poultry, fish, figure but made some mistakes. Select the correct eggs, dry beans option regarding it. and dairy products A. Food items in block (1) should be replaced by Fats, oil. salt (2) and sweets food items in block (4). Fruits and B. Food items in block (2) and (3) should be (3) vegetables interchanged. Grains and 4 C. Food items in block (1) and (2) should be cereals interchanged. Balanced diet pyramid 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? B. Water vapour A. Oxygen D. Both A and B C. Nitrogen 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. Maitri lives in a tent. A. Ronita lives in a bungalow. D. Maitri lives in a caravan. C. Ronita lives in an apartment. 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

B. Rayon, Silk

C. Flax, Silk

A. Cotton, Wool

D. Coir, Linen.

12. Match column I with column II and select the correct option. Column I Column II (a) Dirty clothes 1. Make you feel uncomfortable (b) Tight clothes 2. Can make you sick (c) Warm clothes 3. Protect you from rain (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 B. (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 gives the name of a cooking method by which biscuits are made. A. EIGSANTM B. IIBNOGL C. ANICGNN D. KIBGAN 14. Ravi needs a material which does not melt easily to make a see through container. He should use A. Wood B. Metal C. Plastic D. Glass 15. Refer to the given conversation among three friends. The window of my room I need a cap I need a box made should have material P made up of Q up of R to protect my that allows sunlight to to protect my glass toy kept inside pass through. head from rain. it from breaking. Kavish Ishita Mohan Now, select the correct option regarding P, Q and R. A. P can be wood. B. Q can be cotton. C. R can be thermocol. D. None of these 16. Christmas is celebrated during which season in India (P) and in Australia (Q)? A. P-Winter, Q-Summer B. P-Winter, Q-Winter C. P-Winter, Q-Spring D. P-Winter, Q-Autumn

SPACE FOR ROUGH WORK

Adaptation

B. Aestivation -

D. Blowhole

Animal

Fish

Polar bear

17. Select the correct match Adaptation

A. Mimicry

C. Blubber

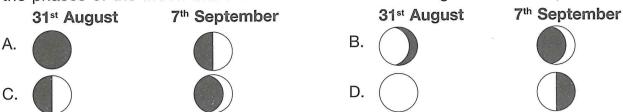
Animal

Cow

Hawk moth caterpillar

18.	Re	fer to the given word	grid and select the opt	tion	С	G	Н	Р	Α	С	Е	G	K
	wh	ich CANNOT be found	d in it.		Т	L	Е	М	Α	1	L	М	L
	A.	Fastest means of writing	ten communication		В	1	С	Υ	R	L	Е	N	С
	В.	Audio means of comn	nunication		S	U	В	M	Α	R	1	N	Е
	C.	Vehicle used for carry	ring sick people to hospit	tal	0	Е	T	T	D	U	С	K	Р
	D.	Vehicle used by naval			J	R T	K X	D M	0	W P	P C	Z K	D R
19.	 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. C. Penguin makes its nest on the ground with pebbles and stones. D. All of these 										etc.		
20.			two objects to cast the				ne s	cre	en a	as s	hov	vn h	ere
	A.	В.			1				7				
	C.	D.		,	Torc	h						Scre	en
21.	as In t in a Sel sta A.	P, Q and R. he absence of part absence of part		eproduce food.	wh	iere	as				One	P	R
22. Rajiv saw a bird swimming in water. Which kind of foot could the bird ha								hav	/e?				
	A.	В.	C.					D.					
23.	Ped A. B. C. D.	ople wearing this type Waiter Postman Lawyer Chef	of dress belong to which	ch profe	ssic	n?					\$		

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.

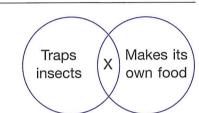


25. Zain observed two animals P and Q in his locality and tabulated their characteristics as shown here.

Select the option which correctly identifies these animals.

	P	Q	Characteristics	Animal P	Animal Q
A.	Butterfly	Frog	Gives birth to young ones	Yes	No
В.	Sparrow	Grasshopper	Has four stages in life cycle	No	Yes
C.	Koala bear	Dolphin	Young one resembles the adult	Yes	No
D.	Bat	Housefly	Has wings	Yes	Yes

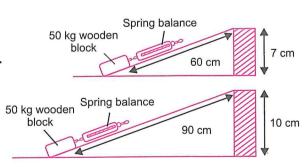
- 26. Study the given Venn diagram and identify X.
 - A. Fern
 - B. Dodder
 - C. Hydrilla
 - D. Pitcher plant



27. Study the items listed in the given table. Which of the following options correctly identifies

Ха	and Y?	M	Group 1	Group 2		
۸	Animal avarata	Tea leaves	Plastic mug	Cotton handkerchief		
	Animal excreta Jute bag	Tubelight	Steel container	Paper envelope		
	Metal can	Banana peel	X	Υ		
	Polybag	Bulb	Glass jar	Wooden chair		
υ.	rolybug	Bana				

- 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?
 - 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



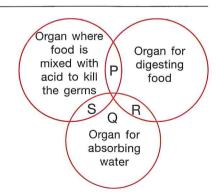
- 29. Which of the following processes do NOT consume heat?
 - - Condensation 2. Evaporation
- 3. Freezina
- 4. Melting
- 5. Boiling

- A. 1. 2 and 5 only
- B. 1 and 3 only
- C. 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

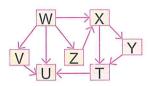
è.

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.
 - C. 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?
 - The car has the most gravitational potential energy at P.
 - 2. The car has the most kinetic energy at P.
 - 3. The car used up all its energy at U.
 - The car has the least kinetic energy at R.
 - The car has the most kinetic energy at U. 5.
 - 1 and 3 Α.
- 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?
 - A. P and S
 - B. S and Q
 - C. R and S
 - D. P and Q

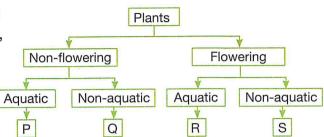


- 34. Refer to the given food web and select the INCORRECT option regarding it.
 - A. W is the only producer while U is the only top consumer in the given food web.
 - B. X is an omnivore whereas Y and T are carnivores in this food web.
 - C. There are five interconnected food chains in this food web.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

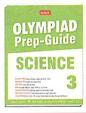
- A. R Bryophyllum, S Sundew
- B. S Gulmohar, Q Fir
- C. P Duckweed, R Arrowhead
- D. P Water hyacinth, Q Pine



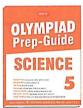
SPACE FOR ROUGH WORK

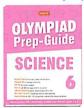
MTG OLYMPIAD PREP-GUIDE FOR CLASS 3 TO 8

Your Partner to succeed in SOF National Science Olympiad NSO Level 1 and 2

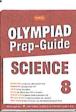












Available at all leading book shops throughout India. To buy online visit www.mtg.in For more information or help in placing your order, call 0124-6601200 or email info@mtg.in













For latest updates & information, please like our Facebook page (www.facebook.com/sofworld) or register on http://www.sofworld.org/subscribe-updates.html. For Level 1 and Level 2 preparation material / free sample papers, please log on to www.mtg.in



National Office: Plot 99, First Floor, Sector 44 Institutional area, Gurugram -122 003 (HR) India Email: info@sofworld.org | Website: www.sofworld.org Regd. Office: 406, Taj Apt., Ring Road, New Delhi-110 029 Note: Please address all communication to the National Office only.