BLOOM CAP

Bloom School Olympiads

Bloom Science Olympiad (BSO)

Class 6th

Question Paper 2022

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structions											
1. Additional the start of				giver	to st	tuder	nts to	o fill u	ip the	e stuc	dent's information before
2. There are t each and \$										has	40 questions of 1 mark
3. All questio	ns are	e com	npuls	ory. L	Jse o	fcalc	ulate	or is n	ot all	owed	d.
4. Write and not forget		•	Roll	Num	ber a	nd Sı	ubje	ct cle	arly c	on the	e Answer sheet and do
5. There is on	ly one	e corr	ect a	nswe	er her	nce m	hark	one c	choic	e only	у.
6. Darken you	ur cho	ice w	/ith ⊦	IB Pe	ncil	or Blu	ie/Bl	ack E	Ball Po	oint F	Pen only.
For examp	le										
Indira Gan	dhi In	terna	tiona	al Air	oort,	is situ	iateo	d in w	/hich	city?	
(a) New E	Delhi					(b)	Μι	umba	i		
(c) Chenr	าลเ					(d)	Hy	derak	bad		20: • b c d
As the corr option (a)	rect ar	nswei	r is (a), the	stud	lent s	hou	ld dai	rken t	he ci	ircle corresponding to
7. Rough wo	rk sho	uld b	be do	ne in	the	blank	spa	ce pr	ovide	d in t	the booklet
5			_								

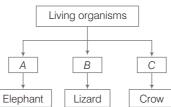
8. Return the answer sheet to the exam in-charge teacher at the end of the exam.

India's **BIGGEST OLYMPIADS** for English and Hindi Medium Schools. In both Offline and Online Modes.

Bloom Science Olympiad Class 6

Section A (1 Mark)

1. In the flow chart given below, the organisms are categorised on the basis of their food requirements. Identify *A*, *B* and *C*.



Codes

	Autotrophs	Herbivores	Carnivores	Omnivores
(a)	Α	В	С	-
(b)	-	A	В	С
(C)	-	В	А	С
(d)	В	С	A	-

- 2. While doing an activity in class, the teacher asked Arpita to handover a translucent material. Which among the following materials will Arpita pick and give her teacher?
 - (a) Glass tumbler(c) Muslin cloth

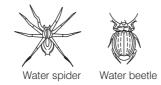
- (b) Mirror
- (d) Aluminium foil
- 3. In the plant given below, which of its part stores starch?



(a) Flower	(b) Buds
(c) Leaves	(d) Stem

4. Animals are characterised according to their habitat needs.

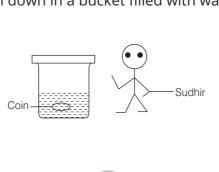
Some animals like the water spider and water beetle can stay underwater for a long time to hunt and feed because they____.





		-	-	
5.		ne ground under the tre	<u> </u>	bserves some bright circular
~				
6.		ng materials did people		or making clothes?
	l. Leaves of trees III. Metal foils		II. Newspaper IV. Animal skins and f	lirc
	Choose the correct of	ntion	TV. Animal Skins and T	urs
	(a) I and II	(b) I and III	(c) II and III	(d) I and IV
7.		nd baking of chapatti ar		
		ed Ind can not be reversed ed and can be reversed		
8.		hout me, you are like je licate parts. Who am l?	lly. I give you support	like the pillars of a building. I
	(a) Tissue	(b) Cell wall	(c) Skeleton	(d) Muscle
9.	-	ar to Mumbai. He trave led 400 km in next 4 h. l		, then he started driving his ed in 7 h?
	(a) 108 km	(b) 692 km	(c) 984 km	(d) 1184 km
10.	In the given short se order food chain?	gments of food chain, v	vhich ones are incorre	ct with respect to the correct
	I. Lion – Goat III. Snake – Rat V. Insect – Spider	IV. Goa	rd – Rat at – Grain ard – Spider	
	Codes			
	(a) II, III and VI	(b) II, III, V and VI	(c) II, V and VI	(d) II and V
44	While playing Cudhi	r's sain fall down in a hu	icket filled with water	He was able to see the sein

11. While playing, Sudhir's coin fell down in a bucket filled with water. He was able to see the coin clearly within the water.



This is because

- (a) the water is translucent.
- (c) the coin is lustrous.

- (b) the water is transparent.
- (d) the coin is transparent.
- **12.** Read the statements provided by three children about the roots of plants.

Navya : All roots grow underground.

Purvi : Some roots provide us with food.

Ravi : Roots that grow underground tend to grow downwards.

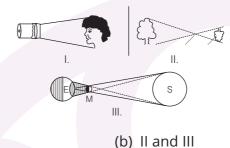
Who made correct statement(s) about roots?

- (a) Navya
- (c) Navya and Ravi

- (b) Navya and Purvi
- (d) Purvi and Ravi
- 13. Which of the following characteristics help(s) the water hyacinth to float on water?
 - A. Air spaces B. Fleshy leaves
 - (a) Only A

C. Waxy leaves

- (b) A and B
- (c) A and C (d) B and C
- 14. In which of the following figures shown below, shadow is formed?

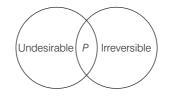


(a) I and II

(c) I and III

(d) All of these

- **15.** Number of yarns used to make fabric by weaving and knitting are
 - (a) two sets of yarns in each case
 - (b) single yarn in each case
 - (c) two sets of yarns in weaving and single in knitting
 - (d) single yarn in weaving and two sets in knitting
- **16.** Study the following venn diagram.



P is

(a) burning of cooking gas

(c) mixing of sugar and milk

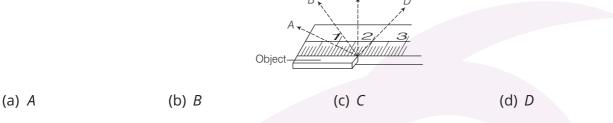
- (b) coming of summer
- (d) an earthquake

17. Given below is a flow diagram for a major system in our body. Choose the option that fills the missing links *A*, *B*, *C* correctly



00405					
А	В	С	А	В	С
(a) Tendons	Bones	Muscles	(b) Bones	Muscles	Organs
(c) Organs	Muscles	Bones	(d) Muscles	Bones	Organs

18. Consider the figure shown as below. What should be the most appropriate position of the eye of an observer in order to measure the length accurately?



19. Female mosquitoes live on blood that they suck from humans and other animals. They have a long, sharp pipe-like structure instead of teeth, that is used to pierce the skin and suck blood. Male mosquitoes on the contrary feeds on plant sap and nectar. Identify the category to which they belong?

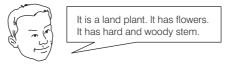
Female	Male
(a) Herbivorous	Omnivorous
(b) Herbivorous	Herbivorous
(c) Sanguivorous	Herbivorous
(d) Carnivorous	Carnivorous

20. Which pair of substances among the following would float in a tumbler half-filled with water?

- (a) Cotton thread, thermocol
- (b) Feather, plastic ball
- (c) Pin, oil drops

Codes

- (d) Rubber band, coin
- **21.** Read what Avi describes about the plant that he has in his garden.



Which of the following is likely to be the plant that Avi is describing?

- (a) Rose
- (b) Sandalwood

(c) Passion flower

(d) Sunflower

22. Animals use different parts of their bodies to move around. Which of the following rows shows an animal that is not correctly matched to its body parts for movement?

		Animal	Legs	Wings	Body	Flippers
	(a)	Snake			\checkmark	
	(b)	Penguin		\checkmark		
	(C)	Cheetah	\checkmark			
	(d)	Dolphin				✓
23.	Consi	der the foll	owing flov	W Chart.	n of salt conversion	US B ourning of coal, on of milk into cure aking of brick
,	A and	B stand res	spectively	for		
	(b) ch	emical and	physical	ble changes changes rary changes		
	(-) PC	in an en eu	is compo			

- (d) All of the above
- 24. The figure given below shows a stage of life-history of silk moth. Identify which stage is this?



- (a) Eggs on mulberry
- (c) Cocoon with developing moth
- (b) Cocoon
- (d) Pupa developing to silk adult moth
- **25.** Iron rim is made slightly smaller than the wooden wheel (which is to be covered by iron rim). The rim is usually heated before fixing into the wooden wheel because on heating, the iron rim
 - (a) expands and fits onto the wooden wheel
 - (b) contracts and fits onto the wooden wheel
 - (c) no change in the size takes place
 - (d) expands first, then on cooling contracts and fits onto the wooden wheel
- **26.** Boats and ships are designed to move efficiently through water. Their shape is similar to fishes. From the options below, choose the correct combination of shape and its advantage.

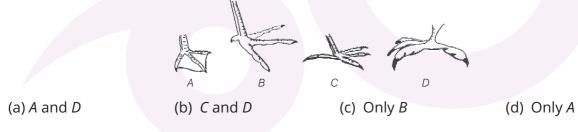
	Shape		Advantage
1.	Cylindrical	Α.	Provide wave motion
2.	Streamlined	В.	Increases water resistance
3.	Circular	C.	Decreases water resistance
4.	Conical	D.	Helps in ballooning

Codes

(a) 1–B	(b) 2–C
(c) 3–D	(d) 4–A

 (a) Circular and oscillatory motion (b) Rotatory and rectilinear motion (c) Rotatory and circular motion (d) Rotatory and oscillatory motion 28. Study each of the given set carefully. Identify the odd one. (a) Cow, milk, butter (b) Hen, egg, meat (c) Goat, milk, meat (d) Plant, vegetable, butter, milk 29. Four students Radha, Sudha, Sofia and Raveena have four different mixtures. Radha : Red chilli powder + water Sofia : Petrol + water Sofia : Petrol + water Sofia : Petrol + water Whose mixture is in solution form? (a) Radha (b) Sudha (c) Sofia (d) Raveena 30. There is a venn diagram given below. Observe it and identify X in it? Caton Caton (d) Product of photosynthesis 31. Raheem is fond of animals. Thus, he always observe the animals and study about their habitats. Once, he came across an animal having a stream-lined and slippery body. What is the habitat of the animal? (a) Water (b) Desert (c) Grassland (d) Mountain 32. Opt the correct sequence to get cloth. (a) Fibre → Fabric → Yarn (b) Fibre → Yarn → Fibre (c) Fabric → Yarn → Fibre (d) Yarn → Fibre → Fabric 33. The states where jute is grown at large level are (a) Madhya Pradesh, Orissa and Uttar Pradesh 34. Formation of curd from milk is a I. temporary change II. irreversible change II. irreversible change II. temporary change IV. exothermic change The correct alternative is (a) II and III (b) II and III (c) II, III and IV (d) I, III and IV 	27.	Raju, who is a carpente motion did the drill ma			en planks using a d	rill machine. Which type of
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		(a) I, II and III	(b) II and III	((c) II, III and IV	(d) I, III and IV

35.	Given below are some	structures of human boo	dy. Pick the odd one out	
	(a) Ball and socket	(b) Pivot	(c) Hinge	(d) Sternum
36.		among the India's best sl tion did the bullet perfor		a straight line on the
	I. Rectilinear	ll. Circular	III. Rotational	IV. Curvilinear
	Codes			
	(a) I and II	(b) II and IV	(c) I and III	(d) III and IV
37.	Which sets of substanc	es is not used for making	g fibres?	
	(a) Silk, chemicals	(b) Yak hair, camel hair	r (c) Husk, bones	(d) Flax, wool
38.	Substance 'X' is a good and commonly used fo	conductor of heat as we r making wires. <i>X</i> is	ll as electricity. It is a sol	id at room temperature
	(a) wood	(b) copper	(c) iron	(d) mercury
39.	Consider the statemen	ts given below		
	I. Plants are unicellular II. Plants are heterotrop III. Plants respond to en IV. Plants prepare their o	bhs. vironment.		
	Which of the above sta	tements are correct?		
	(a) II and IV	(b) III and IV	(c) Only IV	(d) I, II, III and IV
40.	Here are some drawing swimming? Choose the	gs of birds feet. Which bi correct option.	rd would be most likely	to be adapted for



Section B (2 Marks)

41. Matrix-matching

	Column A		Column B
١.	Regular reflection	р.	Mirror
11.	Diffused reflection	q.	Glass
.	No reflection	r.	Air
		s.	Wood
		t.	Metals
		u.	Paper

Codes

- | || |||
- (a) p,u r,s q,t
- (b) q,t r,s p,u
- (c) q,r s,u p,t
- (d) p,t s,u q,r

42. State whether the following statements are true (T) or false (F) and select the correct answer.

I. A mixture of oil and water can be separated by filtration.

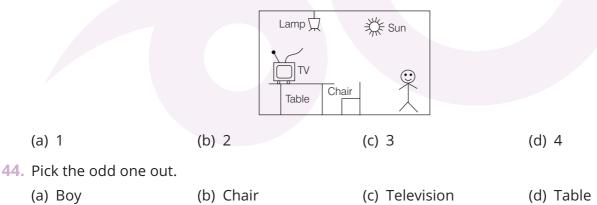
- II. Water can be separated from salt by evaporation.
- III. A mixture of wheat grains and wheat flour can be separated by sieving.
- IV. A mixture of iron filings and rice flour can be separated by magnet.

V. A mixture of wheat grains and rice flakes can be separated by winnowing.

	Ι		111	IV	V
(a)	F	Т	Т	Т	Т
(b)	F	Т	F	Т	Т
(C)	F	F	Т	F	Т
(d)		F	Т	Т	Т

Direction (Q. Nos. 43 and 44) Read the following information and answer the questions that follow : Luminous bodies like the sun, a gas flame and an electric light filament are visible since they are light sources. The objects other than luminous objects are visible only when they are in the presence of light from the luminous objects.

43. In the figure given below, a kid is watching TV at his home. How many luminous objects are there ?



45. Assertion (A) The length of a curved line can be measured by using a thread and a scale.

Reason (R) A measuring tape is used to measure the length of a curved line.

Select the correct answer from the options given below.

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true, but R is not the correct explanation of A.
- (c) A is true, but R is false.
- (d) A is false, but R is true.

46. Match each mixture (given in Column I) to the apparatus (given in Column II) which may be used to separate the components of the mixture.

	Colu	ımn l				Column II
1.	Alco	hol an	d wate	r	Α.	
2.	Sand	d and v	water		В.	
3.	Salt	and w	ater		C.	
4.	Iron	filings	and sa	and	D.	
	1	2	3	4		
(a)		C	B	D		
(b) (c)	B C	D A	C B	A D		
(c) (d)		В	A	C		

47. The table below shows sources, functions and deficiency diseases caused by some vitamins and minerals.

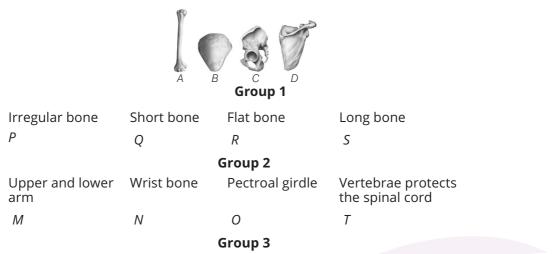
Vitamin/Mineral	Source	Function
Vitamin-C	Oranges, lemons and grapes	Makes skin and gums healthy and heal wounds quickly
Vitamin-D	Milk, butter, eggs, fish and liver	Makes bones and teeth strong
Calcium	Milk and eggs	Makes bones and teeth strong
Phosphorus	Milk, apple, beans, dry fruits and pulses	Helps in the body development and makes children strong; helps in the digestion of food

Which one of the following statements is correct?

(a) Vitamin-C is needed for strong bones.

- (b) Scurvy is caused due to deficiency of phosphorus.
- (c) Deficiency of vitamin-C and phosphorus causes rickets.
- (d) Deficiency of vitamin-D and calcium causes rickets.

48. There are three groups given below. Observe each group and identify the correct relation with other groups.



Codes

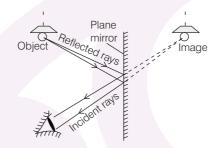
(a) A-R-M, B-Q-M, C-S-T, D-P-O

(c) A–P–O, B–R–T, C–Q–M, D–S–N

(b) A-Q-N, B-P-O, C-R-N, D-S-T (d) A-S-M, B-Q-N, C-P-T, D-R-O

49. Assertion (A) Image formed by a plane mirror is always virtual and erect.

Reason (R)



Select the correct answer from the options given below

- (a) Both A and R are true and R is the correct explanation of A
- (b) Both A and R are true, but R is not the correct explanation of A
- (c) A is true but R is false
- (d) A is false but R is true
- **50.** Consider the passage given below and opt the option that correctly fills the missing blanks. Animals like cows, buffaloes and <u>A</u> provide us milk. Milk is rich in proteins, <u>B</u>, carbohydrates, vitamins and minerals. The animals that produce milk are <u>C</u>. Like milk, honey is also obtained from animals. It is very nutritious in nature. Honeybees collect nectar from different flowers, mix it with a secretion from their <u>D</u> and convert it into honey.

Codes

	Α	В	С	D
(a)	sheeps	fat	producers	beehives
(b)	goats	dietery fibres	carnivores	petals
(C)	sheeps	dietery fibres	omnivores	pollen grains
(d)	goats	fat	herbivores	mouth

ANSWER KEY

Science Class 6th

1.(b)18.(c)35.(d)2.(c)19.(c)36.(c)	
2. (C) 19. (C) 36. (C)	
3. (C) 20. (b) 37. (C)	
4. (C) 21. (a) 38. (b)	
5. (C) 22. (b) 39. (b)	
6. (d) 23. (a) 40. (d)	
7. (C) 24. (C) 41. (d)	
8. (C) 25. (d) 42. (a)	
9. (b) 26. (b) 43. (c)	
10. (d) 27. (b) 44. (c)	
11. (b) 28. (d) 45. (c)	
12. (d) 29. (d) 46. (a)	
13. (c) 30. (b) 47. (d)	
14. (c) 31. (a) 48. (d)	
15. (C) 32. (b) 49. (C)	
16. (d) 33. (b) 50. (d)	
17. (b) 34. (b)	



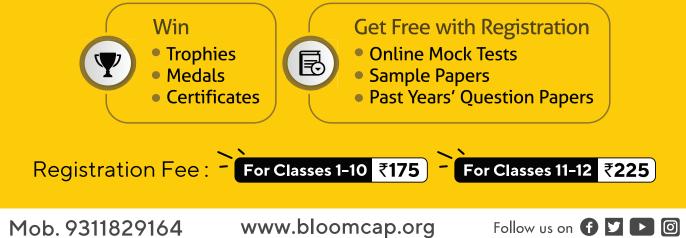
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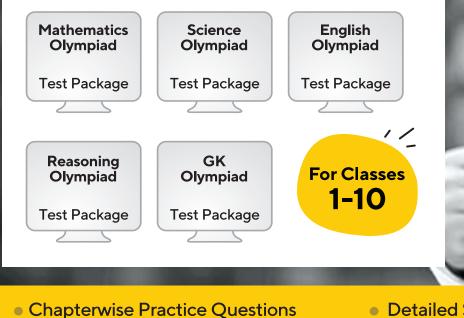


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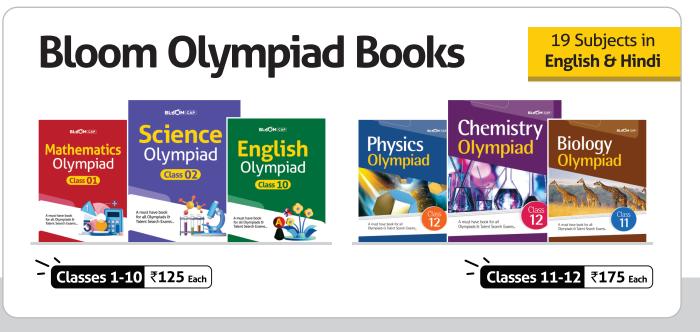
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