Bhavan's Science Olympiad (BSO) – 2023

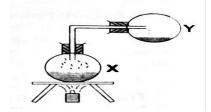
Class:- 5 Time:- 1 Hr.		ubject:- Science otal :- 50 Marks		
INSTRUCTIONS :- > Question no. 1 to 40 carries 1 mark each > Question no. 41 to 45 carries 2 marks each				
 Kavya is going to a hilly area for he following will she most probably fin a) Spruce Venus flytrap 		Which of the		
 I have a tail and gills like a fish, I s when I'll grow up. Who am I? a) Maggot b) Nymph 		-		
3. On which day every year "World Enal) 24 April b)22 March	· ·	elebrated? d) 5 July		
 4. Identify the part labeled as X in the a) Yolk c) Albumen 5. In which of the following parts of d of food occurs? a) Large Intestine 	b) Air Space d) Embryo	-		
 c) Stomach 6. Which of the following plant does r a) Teak b) Mangrove 7. Which of the following is not a manal a) Wallabies c) Wombats 8. Which natural fibre is made from the following is made from the following is not a manal fibre is made from the following is not a manal fibre is made from the following is not a manal fibre is made from the following plant does r 	c) Coconut rsupial? b) Kangaroo d) Duck billed Pla	d) Rubber atypus		
a) Cotton b) Jute	c) Linen	d) Silk		
 9. Which of the following process cau a) Blowing wind c) Condensation 10. Which among the following is not a) Sandy b) Clayey 11. Select the INCORRECT match fro a)Incisor- Cutting c) Molar- Biting 	b) Evaporation d) Rotation a type of soil? c) Gravel	d) Loamy		

(BSO, Page 1 of 5)

a) Theseb) Thesec) Thesed) These	clothes reflect the clothes absorb the clothes absorb the clothes reflect the	heat and keep the heat and keep th heat and keep th heat and keep the	e body cool. e body warm.	
	e should use	-	_	
a) Wood	b) Metal	c) Crayon	d) Glass	
into the air	. Which of these is	P gas?	ator, etc., we send P gases	
a) CNG	,	, , ,	d) Nitrogen	
15. Pluto was demoted to be a planet on a)Dwarf, 24 th August 2006 b) Giant, 24 th August 2006 c) Dwarf, 15 th August 2005 d) Giant, 15 th August 2005				
16. The given table shows the time taken by a ball to roll over the same distance over four different surfaces P, Q, R and S.				
Surface	Time Taken by ball	If the ball is pushed with the same force in each case, then which surface P, Q, R or S		
Р	6 seconds	is the smoothest	· -	
Q	15 seconds	a)P	b) R	
R	10 seconds	c) S	d) Q	
S	18 seconds	S) S	<i>⊶</i> , €	
17.A sea breeze blows when the air above land is and the air above sea is				
a)Co	lder, Warmer	b) Warmer, Lighter		
c) Heavier, Colder		d) V	d) Warmer, Colder	
18. A compas	s works with the h	elp of		
a)So	lar Energy	b) N	Moon's gravity	
c) Ea	arth's Magnetic fiel	d d) E	Earth's gravity	
19. Select the	animal pair who h	nas similar breath	ing mechanisms.	
a) Bat : Fish		b) T	b) Turtle : Lizard	
c) Bı	atterfly: Mouse	d) E	Earthworm : Cockroach	
20. Select the	correct match from	m the following.		
a) Venus – It has 2 moons				
b) Saturn – Its rings are made of ice, rocks and dust				
c) Jupiter – Largest and farthest planet from the Sun				
d) M	ercury – Hottest pl	anet		
			(BSO, Page 2 of 5)	

21. Study the given figure carefully. Whe happen to the water level in the tub, some air is sucked out of the glass? a) Water level in the tub will go do b) Water level in the tub will rise. c) Bubbles will appear in the tub. d) Water level in the tub will remains and sulphur.	when Glass—Straw own Tub Water ain the same.
they cause a) Ozone depletion c) Acid rain	b) Global warming d) Oil spill
23. X majorly helps in the formation of a Select the option that gives name of X a) ONRI c) ULUSPHR 24 is the organic component microorganism.	(on unscrambling. b) IALCCUM d) PPECOR
a) Gravel b) Humus	c) Sand d) Clay
25. During which of the following stagesa) Embryo b) Nymph	
26. Which of the following nutrients is r body?a) Fatsc) Proteins	equired in small amount in our b) Carbohydrates d) Vitamins and minerals
27. Which is the hardest substance in o a) Bone b) Enamel	
28. Which of the following forces causesa)Frictional Forcec) Muscular Force	wear and tear of machine parts? b) Gravitational Force d) Magnetic Force
29. Which of the following is the most for a) Bedrock c) Top soil	ertile layer of the soil? b) Subsoil d) Partially weathered rocks
30. Which of the following statement ab a) Work is done when force is appli b) Work is done only when an object c) Work is not related to the amour d) Work is not related to energy.	out work is correct? ed. et is displaced
 31. Select the correct option regarding s a) Solute + Solution = Solvent b) Solvent - Solute = Solution c) Solvent + Solution = Solute d) Solute + Solvent = Solution 	solution.

- 32. ____leads to pollution of water.
 - a) Reducing the use of fossil fuels
 - b) Carbon dioxide released in respiration by animals
 - c) Avoiding washing and cleaning of animals in water bodies
 - d) Throwing untreated industrial waste in water bodies
- 33. Examine the experiment as shown in the given figure.500 ml of water in flask X is heated until it is completely evaporated. The amount of water collected in flask Y will be about _____.



- a) 300 ml
- b) 450 ml
- c) 400 ml
- d) 500 ml
- 34. Which deficiency disease is caused due to the lack of vitamin C?
 - a)Night blindness

b) Scurvy

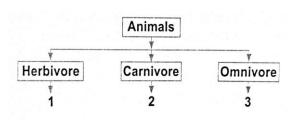
c) Rickets

- d) Beri Beri
- 35. Which of the following is a kharif crop?
 - a) Rice
- b) wheat
- c) Pulses
- d) Mustard
- 36. Which of the following aquatic plant do not have stomata?
 - a) Floating plant

b) Fixed plant

c) Underwater plant

- d) None of these
- 37. Choose the correct statement.
 - a) Birds are cold blooded animals.
 - b) Kiwi can fly.
 - c) Polar bears hibernate.
 - d) Amphibians lay their eggs in water.
- 38. Select the option that arranges the major gases in air in decreasing order of their percentage.
 - a) Oxygen < Nitrogen < Carbon dioxide
 - b) Nitrogen < Oxygen < Carbon dioxide
 - c) Nitrogen > Oxygen > Carbon dioxide
 - d) Carbon dioxide > Nitrogen > Oxygen
- 39. Refer to the given flow chart and select the correct option regarding it.



- a) 1- Cow, 3 Bear
- b) 2 Crow, 3 Squirrel
- c) 1 Fox, 3 Lion
- d) 1 Eagle, 2 Sparrow
- 40. What do we call the pores on the underside of the leaves?
 - a) Stomata

b) Petiole

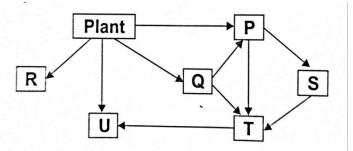
c) Stalk

d) Lamina

ACHIEVER SECTION

- 41. Unscramble the given options and select the one that is not a cause for soil erosion.
 - a)GIULOPGHN C)FORTDESTAIONE

- b) AFRSAOFETITON
- d) AVERONGRZIG
- 42. In the given food web, P, Q, R, S, T and U are consumers. Which of these consumers are both plant and animal- eaters?



- a)P and S
- b) Q and U
- c) R and T
- d) P and U
- 43. When a mixer grinder is switched on,_____ energy changes to

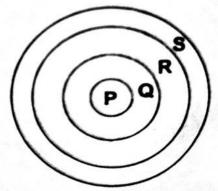
_____ and kinetic energy.

a)Mecahnical, Sound

b) Electrical, Heat

c) Electrical, Sound

- d) Potential, Mechanical
- 44. The given figure shows three layers of Earth. Select the correct statement regarding it.
 - a) P and Q are liquid layers.
 - b) Layer S makes up most of the total Earth's volume.
 - c) Layer above R is called crust.
 - d) All of these



- 45. Planet X is closer to Sun than planet Y. It can be inferred that_____
 - a) Planet Y has longer revolution period than planet X.
 - b) Planet X has longer revolution period than planet Y.
 - c) Planet X has longer rotation period than planet Y
 - d) Planet Y has longer rotation period than planet X