

Bloom School Olympiads

Bloom Science Olympiad (BSO)

Class 4th

Question Paper 2022

Student Name _____

Mobile No.

--	--	--	--	--	--	--	--	--	--

Total Questions : 35

Time : 60 min.

Instructions

1. Additional 10 min. will be given to students to fill up the student's information before the start of the exam.
2. All questions are compulsory and each question carries 1 mark. Use of calculator is not allowed.
3. Write and circle your Mobile Number and Subject clearly on the Answer sheet and do not forget to sign.
4. There is only one correct answer hence mark one choice only.
5. Darken your choice with HB Pencil or Blue/Black Ball Point Pen only.

For example

Indira Gandhi International Airport, is situated in which city?

- (a) New Delhi (b) Mumbai
(c) Chennai (d) Hyderabad

20: ☒ (a) ☐ (b) ☐ (c) ☐ (d)

As the correct answer is (a), the student should darken the circle corresponding to option (a)

6. Rough work should be done in the blank space provided in the booklet
7. Return the answer sheet to the exam in-charge teacher at the end of the exam.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO

Bloom Science Olympiad Class 4

1. Choose the option which represents the property and state of a material most appropriately.

Material	Property	State
(a) Milk	Definite volume	Gas
(b) Shampoo	Definite shape	Liquid
(c) Oxygen	Definite size	Gas
(d) Salt	Definite shape	Solid

2. What is the role of alcohol in the experiment?

- (a) To remove chlorophyll from leaf, i.e. bleaching
- (b) To soften the leaf
- (c) To kill the living cells of leaf
- (d) To burn the leaf

3. Food pipe and wind pipe lies parallel to each other. Then also when we eat food, it does not enter into the wind pipe. Which structure prevents entry of food into wind pipe?

- (a) Epiglottis
- (b) Trachea
- (c) Oesophagus
- (d) Larynx

4. Arrange the objects given below in increasing order of their size.

- I. Star
- II. Galaxy
- III. Solar system
- IV. Planet

Choose the correct option.

- (a) II, III, I, IV
 - (b) III, IV, II, I
 - (c) I, IV, III, II
 - (d) IV, I, III, II
5. is the ability of living things to hide from predators.
- (a) Adaptation
 - (b) Camouflage
 - (c) Alteration
 - (d) Scratching
6. What could be the most appropriate reason for houses being made of strong and durable materials?
- (a) To make them look beautiful.
 - (b) To increase the cost of maintenance.
 - (c) To decrease the cost of maintenance.
 - (d) The materials are cheaply available.

7. Read the following statements and choose the correct option.

Statement A Tongue helps us to detect the taste of the food.

Statement B Tongue helps us to push chewed food into food pipe.

Statement C Tongue helps us to speak clearly.

(a) Statement A and B are correct and Statement C is incorrect.

(b) All Statements are correct.

(c) Statement A and C are correct and Statement B is incorrect.

(d) Statement B and C are correct and Statement A is incorrect.

8. Consider the classification of matter and non-matter given below and choose the correct one.

Matter	Non-matter
(a) Ice, air, heat	Oil, cream, thunder
(b) Fish, paper, sound	Water, plastic, dust
(c) Fire, butter, air	Wind, wax, light
(d) Snow, toothbrush, dust	Light, heat, sound

9. The food stored by the of plants is used for daily activities of plants. The extra food gets stored as..... .

(a) roots, vitamin

(b) leaves, protein

(c) stem, fat

(d) stem, starch

10. Match the following columns.

A. Digestion	1. Removal of waste from the body.
B. Excretion	2. Flow of blood to different body parts and heart.
C. Respiration	3. Process of getting nutrients and energy from the food.
D. Circulation	4. Taking in oxygen and giving out carbon dioxide.

Codes

	A	B	C	D
(a)	1	3	2	4
(c)	3	1	4	2

	A	B	C	D
(b)	4	3	2	1
(d)	4	2	3	1

11. Which of the following options is the most appropriate reason for changing day and night?

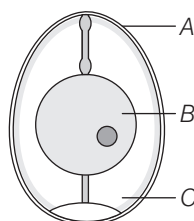
(a) Revolution of Earth around Sun

(b) Rotation of Earth around Moon

(c) Revolution of Earth around Moon

(d) Rotation of Earth on its own axis

12. Satya studied about structure of egg in the class. Then, he draw the diagram, but forgot to label it. Help him to label it.



Choose the correct option.

A	B	C
(a) Egg membrane	Yolk	Albumin
(b) Egg shell	Yolk	Albumin
(c) Egg wall	Albumin	Yolk
(d) Egg shell	Albumin	Yolk

13. In ancient times, people used for transport.

- (a) wheel (b) carts (c) animals (d) birds

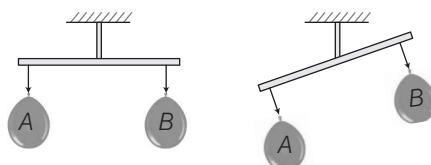
14. What are protective food?

- I. Green leafy vegetables II. Potatoes
III. Milk and milk product IV. Pulses

Codes

- (a) I and III (b) I and II (c) II and IV (d) Only III

15. Two identical air filled balloons *A* and *B* were placed on each end of a rod of a weighing balance which is as shown below. Accidentally, balloon *B* got punctured and air escaped out. The whole set-up is shown below:



The above experiment confirms that

- (a) gases have definite volume.
(b) gases have no definite volume.
(c) gases cannot be compressed.
(d) gases have mass.

16. Why there are no plants beyond 20 m depth under water?

- (a) They cannot respire in such great depth.
(b) Plants need sunlight to prepare food and moreover sunlight can only reach up to depth of 20 m.
(c) No man can go to such depth again and again to sow seeds of different plants.
(d) All of the above

17. Rib cage protects sensitive organs like heart and lungs for external injury. How many pairs of ribs are there in this protective structure?

- (a) 12 (b) 10
(c) 15 (d) 8

18. Our solar system exists in galaxy.

- (a) spherical galaxy (b) milky way
(c) Both (a) and (b) (d) Either (a) or (b)

19. What is the difference between a frog's egg and bird's egg?
- Frog's egg is bigger than a bird's egg.
 - Frog's egg has a sticky covering for protection, whereas bird's egg has a protective hard shell.
 - Frog's egg is brown in colour, whereas bird's egg is white in colour.
 - All of the above
20. It is a two wheeled carriage which is drawn by a single horse.
- Bullock cart
 - Buggy
 - Tonga
 - None of these
21. Look at the picture and tell us why we should not eat food from this stall. Because it contains.....

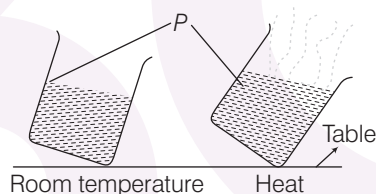


I. germs
III. dust

II. mosquitoes
IV. flies

Codes

- I and II
 - I, III and IV
 - Only II
 - II and III
22. The diagram shown below depicts a substance *P* in a tilted cup, when kept at room temperature and when heated.



Which of the following best represents substance *P* when it is heated?

	Possess mass	Fixed shape	Fixed volume
(a)	Yes	Yes	Yes
(b)	No	No	No
(c)	No	Yes	No
(d)	Yes	No	Yes

23. Hollow leaves of this plant are filled with nectar. When insects come to drink this nectar, its lid closes and they are eaten by the plant. This plant is
- lotus
 - pitcher plant
 - venus fly trap
 - water hyacinth

24. We breathe in air for oxygen and breathe out carbon dioxide. Where does this carbon dioxide come from?

- (a) From the blood (b) From the bones (c) From the heart (d) From the kidneys

25. Consider the following statements about a constellation and choose the correct statement.

- (a) It is a group of stars that are close to Earth.
 (b) It is a group of stars that is named after zodiac signs.
 (c) It is a group of stars which resembles an unusual animal.
 (d) It is a group of stars named after some of recognisable figures seen by astronomers of ancient times.

26. Which of the following animals do not take care of their eggs to provide warmth?

Lizard, Sparrow, Hen, Turtle, Snake, Duck

Choose the correct option.

- (a) Lizard, turtle, snake (b) Snake, hen, duck
 (c) Lizard, sparrow, duck (d) Turtle, snake, sparrow

27. We share our homes with some unwanted visitors. They are called as

- (a) birds (b) animals (c) pests (d) snacks

28. The method used to obtain butter from curd is

- (a) filtration (b) churning (c) rotation (d) All of these

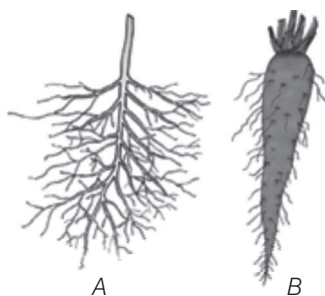
29. State true/false using the codes given below:

- I. Liquids can be held freely in hand.
 II. Solid moth balls directly convert into gas using sublimation.
 III. The molecules of a solid are arranged slightly apart from each other.
 IV. Solids have definite shape and mass.
 V. A molecule is formed when two or more atoms join together.

Codes

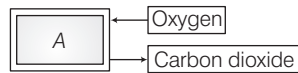
- | | I | II | III | IV | V | | I | II | III | IV | V |
|-----|---|----|-----|----|---|-----|---|----|-----|----|---|
| (a) | F | F | T | T | T | (b) | T | T | F | F | F |
| (c) | F | T | F | T | T | (d) | T | F | T | F | F |

30. Roots of a plant grow deep inside the soil. They hold the plant firmly to the soil. They can be of two types. Identify them in the diagram given below:



- | A | B |
|---------------------|-----------------|
| (a) Tap root | Fibrous root |
| (b) Fibrous root | Tap root |
| (c) Evergreen roots | Desert roots |
| (d) Desert roots | Evergreen roots |

31. What is represented by A? Name the organ.



- (a) Heart (b) Liver (c) Lungs (d) Brain





32. Observe the table given below in which column I represents some planets and column II represents their special character. Choose the one which is incorrectly matched.

Column I	Column II
(a) Jupiter	Biggest planet
(b) Saturn	Beautiful rings
(c) Earth	Rotates sideways
(d) Neptune	Coldest planet

33. Which of the following characteristic does not help birds in flying?

- (a) They have hollow bones which makes their body lighter.
 (b) They have wings and feathers.
 (c) They have streamlined body.
 (d) They have beak but not teeth.

34. Which one of them shown in figures below represents a source of mass communication?

- | | | | |
|---|---|--|---|
| (a)  | (b)  | (c)  | (d)  |
| Mobile phone | Radio | Letter | E-mail |

35. A diet that gives us nutrients in the right quantities are called diet.

- (a) junk (b) unbalanced
 (c) protective (d) balanced

ANSWER KEY

Science Class 4th

1.	(d)	19.	(b)
2.	(a)	20.	(c)
3.	(a)	21.	(b)
4.	(d)	22.	(d)
5.	(b)	23.	(b)
6.	(c)	24.	(a)
7.	(b)	25.	(d)
8.	(d)	26.	(a)
9.	(d)	27.	(c)
10.	(c)	28.	(b)
11.	(d)	29.	(c)
12.	(b)	30.	(b)
13.	(c)	31.	(c)
14.	(a)	32.	(c)
15.	(d)	33.	(d)
16.	(b)	34.	(b)
17.	(a)	35.	(d)
18.	(b)		

BMO

Bloom
Maths
Olympiad

BSO

Bloom
Science
Olympiad

BEO

Bloom
English
Olympiad

BGO

Bloom
GK
Olympiad

BRO

Bloom
Reasoning
Olympiad

India's BIGGEST Olympiads

BLOOM SCHOOL OLYMPIADS

CLASS 1-12

(In English & Hindi Medium)

Class
1-10

- Bloom Maths Olympiad (BMO)*
- Bloom Science Olympiad (BSO)*
- Bloom Social Studies Olympiad (BSSO)
- Bloom English Olympiad (BEO)
- Bloom Hindi Olympiad (BHO)
- Bloom GK Olympiad (BGO)*
- Bloom Reasoning Olympiad (BRO)
- Bloom Computer Olympiad (BCO)

Class
11-12

- Bloom Maths Olympiad (BMO)*
- Bloom Physics Olympiad (BPhO)*
- Bloom Chemistry Olympiad (BChO)*
- Bloom Biology Olympiad (BBiO)*
- Bloom English Olympiad (BEO)
- Bloom Reas. & Apt Olympiad (BRAO)
- Bloom History Olympiad (BHiO)
- Bloom Geography Olympiad (BGeO)
- Bloom Political Science Olympiad (BPSO)
- Bloom Commerce Olympiad (BCoO)
- Bloom Accounts Olympiad (BAcO)
- Bloom Economics Olympiad (BEcO)
- Bloom Computer Olympiad (BCO)

*** Available in Hindi Medium also**



Win

- Trophies
- Medals
- Certificates



Get Free with Registration

- Online Mock Tests
- Sample Papers
- Past Years' Question Papers

Registration Fee : **For Classes 1-10 ₹175** **For Classes 11-12 ₹225**

Get Best Practice for Olympiads...

Bloom Olympiads Online Test Packages

Mathematics
Olympiad

Test Package

Science
Olympiad

Test Package

English
Olympiad

Test Package

Reasoning
Olympiad

Test Package

GK
Olympiad

Test Package

For Classes
1-10

- Chapterwise Practice Questions
- 10 Full Syllabus Practice Sets

- Detailed Solutions
- Comprehensive Analysis

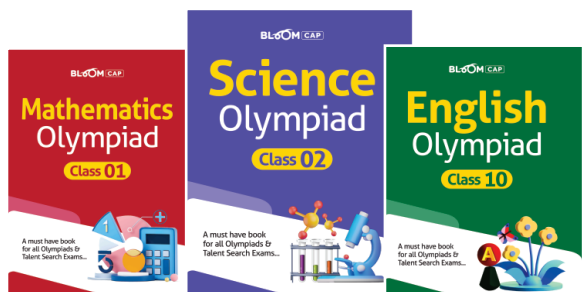
Inaugural
Price

~~₹250~~

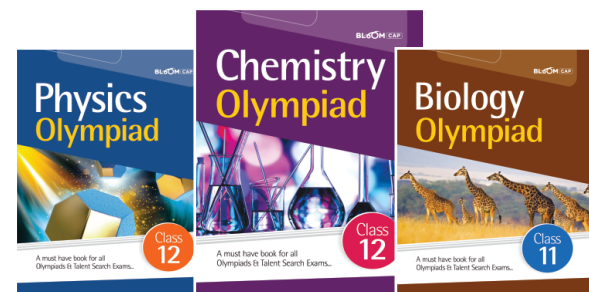
₹200

Bloom Olympiad Books

19 Subjects in
English & Hindi



Classes 1-10 ₹125 Each



Classes 11-12 ₹175 Each

Mob. 9311829164

www.bloomcap.org

Follow us on    