

# *Bloom Science Olympiad Sample Paper 1*

Maximum Time : 60 Minutes

Maximum Marks : 35

## INSTRUCTIONS

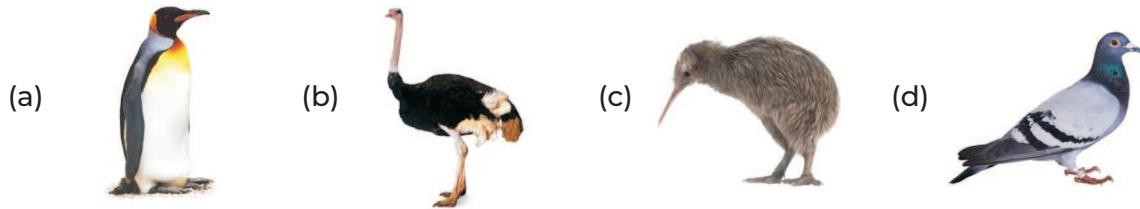
1. There are 35 Multiple Choice Questions in this paper carrying 1 Mark each.
2. Each question has Four Options out of which **ONLY ONE** is correct.
3. All questions are compulsory.
4. There is no negative marking.
5. No electric device capable of storing and displaying visual information such as calculator and mobile is allowed during the course of the exam.
6. Shade the correct option completely as shown here with HB pencil or Blue/Black ball point pen clearly :



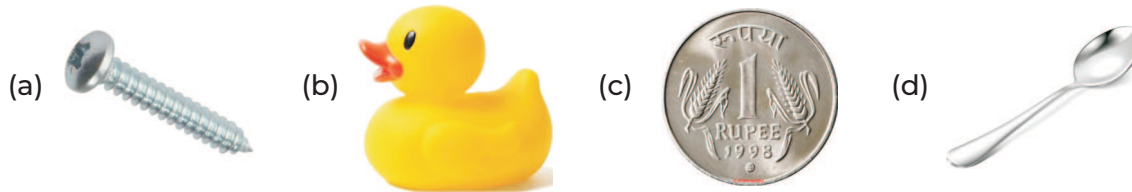
Student's Name

School Name

1. Pick the odd one out of the following.



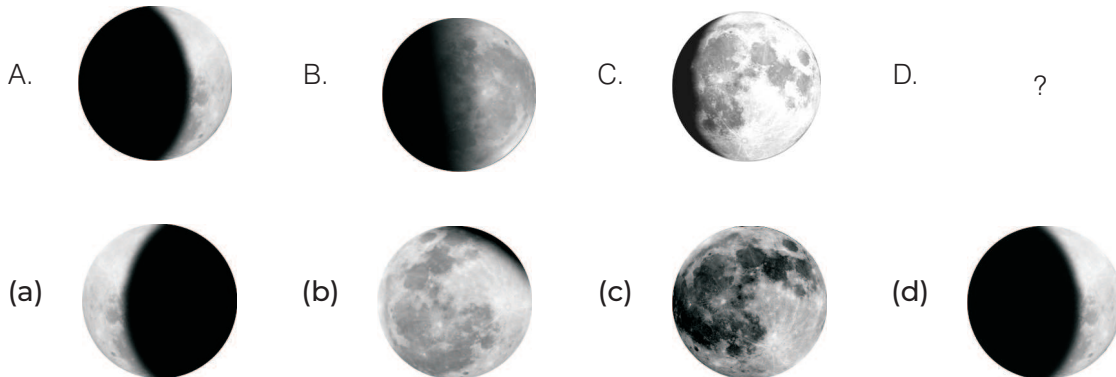
2. Which of the following material will float on water?



3. Lack of rain leads to problem like

- (a) drought
- (b) flood
- (c) storm
- (d) cyclone

4. Identify the next phase in the sequence of Moon.



5. Which of the following gas is most abundant in Earth atmosphere?

- (a) Nitrogen
- (b) Oxygen
- (c) Carbon dioxide
- (d) Argon

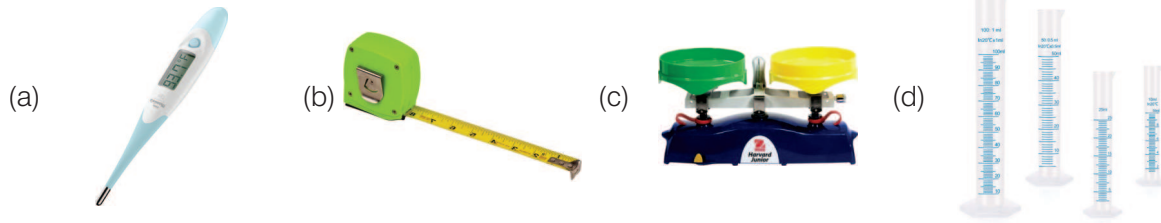
6. Keshav told his mother that his father's motor bike has broken down, he is going to a \_\_\_\_\_.

- (a) Greengrocer
- (b) Mechanic
- (c) Doctor
- (d) Cobbler

7. Eagles and vultures eat .....

- (a) mice and frogs
- (b) fruits and leaves
- (c) grains and seeds
- (d) nectar of flower

8. Which of the following is used for finding the measurement of length accurately?



9. Identify the relation.

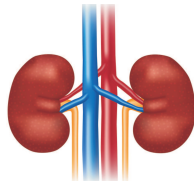
Mango : Tree :: ..... : Shrubs

- (a) Grape
- (b) Hibiscus
- (c) Watermelon
- (d) Rosemary

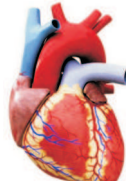
10. Which of the following is a part of excretory system?



I



II



III



IV

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

11. Which of the following bird belong to the nest shown in the picture?



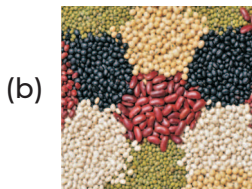
- (a) Weaver bird
- (b) Eagle
- (c) Tailor bird
- (d) Owl

12. Which among the sense organ is used by the girl in the picture below?



- (a) Nose
- (b) Tongue
- (c) Eyes
- (d) Ears

13. Which of the following plant source food items is rich in protein?



14. Which of the following activity is the major cause of water pollution?

- (a) Washing clothes in water bodies
- (b) Throwing garbage in water bodies
- (c) Both (a) and (b)
- (d) Cleaning water bodies

15. Which of the following is/are living things?

- 1. Brick
- 2. Pen
- 3. Goat
- 4. Eagle
- 5. Plant
- 6. Shrub
- 7. Tree

**Codes**

- (a) 3, 4, 2, 1
- (b) 6, 7, 1, 4
- (c) 3, 4, 5, 6, 7
- (d) 1, 3, 6, 7

16. Which of the following is incorrect?

- (a) Solid  $\xrightarrow{\text{Heating}}$  Liquid
- (b) Liquid  $\xrightarrow{\text{Heating}}$  Gas
- (c) Liquid  $\xrightarrow{\text{Cooling}}$  Solid
- (d) Liquid  $\xrightarrow{\text{Heating}}$  Solid

17. Wet clothes dry fast in summer season because of

- (a) cold dry air
- (b) summer clothes absorb less water
- (c) high rate of evaporation
- (d) in summer we wear light clothes

18. Arrange the following planets which are inside the asteroid belt.

- (a) Jupiter  $\rightarrow$  Earth  $\rightarrow$  Venus  $\rightarrow$  Neptune
- (b) Pluto  $\rightarrow$  Mercury  $\rightarrow$  Moon  $\rightarrow$  Uranus
- (c) Mercury  $\rightarrow$  Venus  $\rightarrow$  Earth  $\rightarrow$  Mars
- (d) Jupiter  $\rightarrow$  Saturn  $\rightarrow$  Uranus  $\rightarrow$  Neptune

19. Which of the following organ is a part of circulatory system?  
 (a) Heart (b) Lungs (c) Small intestine (d) Brain
20. Read the given statements carefully and choose the option regarding them.

**Statement I** There are 206 bones in adult human.

**Statement II** Humans inhale carbon dioxide and exhale oxygen.

- (a) Statement I is correct (b) Statement II is correct  
 (c) Both statements I and II are correct (d) Both statements I and II are incorrect

21. Guess me you might use me a lot

to fight the summer.

If 'I' leak inside your house

you need to call a plumber.

who am I ?

- (a) Oil (b) Sweat (c) Water (d) Juice

22. When we do not get food for a long time, our body uses ..... to give energy.

- (a) carbohydrates (b) proteins  
 (c) stored fats (d) water and roughage

23. Given below are some statement find which is true (T) or false (F) amongst them.

I. Kilometre is the standard unit for length.

II. Water transports are the fastest mode of transportation.

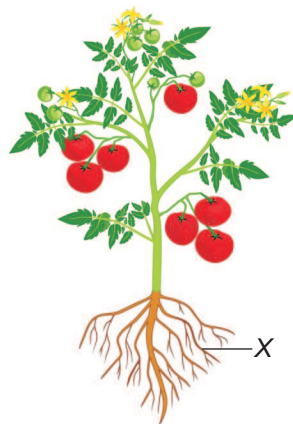
III. Moon is the only natural satellite revolve around the Earth.

IV. The material through which one can see through it clearly are called transparent object.

**Codes**

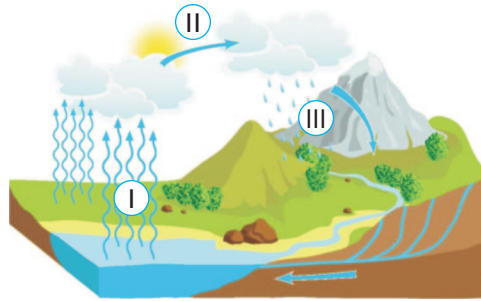
- |     |   |    |     |    |     |   |    |     |    |
|-----|---|----|-----|----|-----|---|----|-----|----|
|     | I | II | III | IV |     | I | II | III | IV |
| (a) | T | T  | F   | T  | (b) | F | T  | T   | F  |
| (c) | T | T  | F   | F  | (d) | F | F  | T   | T  |

24. Which of the following is not a function of the labelled part X?



- (a) X—Store some extra food of plant (b) X—Absorb water and mineral from soil  
 (c) X—Hold the soil to prevent soil erosion (d) X—Prepared food for plant

25. Which of the following processes are followed in given picture.



- (a) I-Evaporation, II-Precipitation, III-Condensation
- (b) I-Water vapour, II-Rain, III-Cloud
- (c) I-Evaporation, II-Condensation, III-Precipitation
- (d) I-Condensation, II-Precipitation, III-Evaporation

26. Which of the following shows correct path of respiratory system for exhalation?

- (a) Mouth → Windpipe → Lungs
- (b) Nose → Windpipe → Lungs
- (c) Lungs → Nose → Windpipe
- (d) Lungs → Windpipe → Nose

27. Which of the following soil is suitable for growing plants?

- (a) Clayey soil
- (b) Sandy soil
- (c) Loamy soil
- (d) None of these

28. State whether the following are true (T) or false (F).

- I. Rotation of Earth on its axis takes 24 hrs.
- II. Revolution of Earth around the Sun takes 365 days.
- III. Rotation is responsible for day and night on Earth.
- IV. Spring is the season in which we wear woollen clothes.

**Codes**

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

29. Match the following Column I with Column II.

Column I	Column II
A. Multistorey building	1. House on wheels
B. Tree shed leaves	2. House made on long piece of wood
C. Caravan	3. Autumn season
D. Stilt	4. Many floors

**Codes**

- |     |   |   |   |   |     |   |   |   |   |
|-----|---|---|---|---|-----|---|---|---|---|
|     | A | B | C | D |     | A | B | C | D |
| (a) | 4 | 1 | 3 | 2 | (b) | 2 | 1 | 3 | 4 |
| (c) | 1 | 2 | 3 | 4 | (d) | 4 | 3 | 1 | 2 |

30. Complete the following food chain by filling correct option.

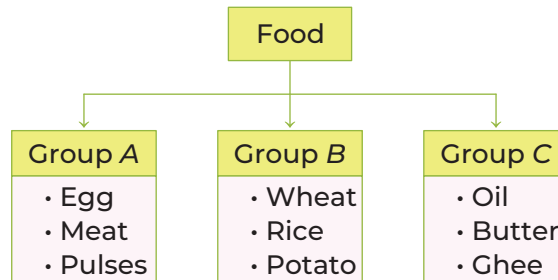


- (a) Deer, tiger
- (b) Cow, lion
- (c) Butterfly, eagle
- (d) Frog, snake

31. People who cannot hear or speak communicate .....

- (a) by lip movements
- (b) by sign language
- (c) Both (a) and (b)
- (d) using Braille script

32. Read the flow chart given below.



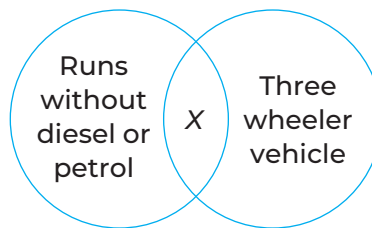
Choose the statement regarding groups.

- (a) Group A—Food provide energy and develop body.
- (b) Group B—Body building foods.
- (c) Group C—Protect against disease.
- (d) Group B and C—They both are energy giving food.

33. The instrument used to measure body temperature is called .....

- (a) laboratory thermometer
- (b) clinical thermometer
- (c) Both (a) and (b)
- (d) kilometre

34. Study the following Venn diagram.



X could be

- (a) Car
- (b) Bus
- (c) Cyclickshaw
- (d) Bicycle

35. Read the following conversation.

Mohan { Herbs are used for medicinal and aromatic qualities.

Sohan { Cactus has spines instead of leaves.

Ritu { Shrubs has strong trunk to hold them.

Choose the friend which made incorrect statement?

- (a) Mohan
- (b) Sohan
- (c) Ritu
- (d) Both Ritu and Sohan

### OMR SHEET

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



## Answers with Hints

1. (d) Penguin, kiwi and ostrich are flightless birds except pigeon it can fly, hence, pigeon is the odd one among all.
2. (b) Nail, coin and spoon will sink in water, while plastic toy will float on water surface because plastic has less density than water.
3. (a) Lack of rain or no rain for longer period of time causes drought.
4. (c) Full Moon will be seen in IV phase. As, I is waning crescent, II is last quarter and III is waning gibbous.
5. (a) The Earth atmosphere contains 78% of nitrogen gas, 21% of oxygen gas and 1% other gases Hence, nitrogen is most abundant gas in Earth atmosphere.
6. (b) A Mechanic repairs vehicles like bikes, cars, etc. with his tools such as screw driver, spanners, etc. Keshav's father is going to a mechanic.
7. (a) Eagles and vultures are birds of prey, i.e. they eat mice, frog, snakes, chicks, etc.
8. (b) Measuring tape is used to measure the length accurately.
9. (b) Mango is grouped under tree, it has strong hard trunk and many branches. Similarly *Hibiscus* is grouped under shrubs, they are bushy and have woody stem.
10. (c) Lungs and kidneys are part of excretory system they help in removal of waste from human body.
11. (c) The given nest is made by tailor bird they sew two large leaves of palm or banana to make their nest.
12. (d) The sense organ used by girl to listen music are ears.
13. (b) Pulses are plant source of protein, which build our muscles strong and helps in grow of our body, while the vegetables and fruits are plant source of vitamins and minerals.
14. (c) Washing clothes in water bodies like river, pond and throwing garbage in them also cause water pollution.
15. (c) Here, brick and pen are non-living things, while living things are goat, eagle, plant, shrub and tree. Hence, code given in option (c) is correct.
16. (d) When liquid is cooled at low temperature it convert into solid state.
17. (c) Wet clothes dry fast in summer season because the rate of evaporation is high in summer season.
18. (c) Planets which are present inside the asteroid belt are  
Mercury → Venus → Earth → Mars.
19. (a) Heart is a part of circulatory system, whereas lungs, small intestine and brain are the parts of respiratory system, digestive system and nervous system, respectively.
20. (a) Only statement I is correct and statement II is incorrect because humans inhale oxygen and release carbon dioxide.
21. (c) Water, as we use (drink) a lot of it in summer and when it leaks from pipe or tap, we call a plumber.
22. (c) Stored fats are used by our body, when we do not get food for a long time.

- 23.** (d) Statement I and II are false as 'Metre' is the standard unit for length and air transport is the fastest mode of transportation. Other two statements are true.
- 24.** (d) X is root of a plant, which absorb water and minerals from soil, it hold the soil to prevent soil erosion and in some plants like carrot, radish they store food also but roots do not prepare food for plant it is done by leaves.
- 25.** (c) The process followed in the picture shows the water cycle. It follows the following steps I-Evaporation, II-Condensation, III-Precipitation.
- 26.** (d) The correct sequence for exhalation in respiratory system is  
Lungs → Windpipe → Nose.
- 27.** (c) Plants grown in loamy soil are healthy as it hold both water and air, while sandy soil do not hold water and clayey do not hold air in it.
- 28.** (d) Only statement (IV) is false, because in winter season we wear woolen clothes.
- 29.** (d) (A) The multistorey building has many floors,  
(B) during autumn season trees shed their leaves,  
(C) house on wheel is called caravan,  
(D) stilt house is made on pieces of wood.
- 30.** (c) The given figure shows food chain in which butterfly suck nectar from flower. Butterfly is eaten by small bird and small bird is eaten by eagle.
- 31.** (c) People who cannot hear or speak communicate by lip movements and sign language. Braille script of writing used for the blind people, it uses characters made up of raised dots.
- 32.** (d) Group A is body building foods, e.g. egg, meat, pulses, etc. Group B and C are energy giving foods, e.g. potato, rice. Hence, option (d) is correct.
- 33.** (b) Clinical thermometer is used to measure body temperature.
- 34.** (c) Cycle rickshaw has three wheels, so it is known as three wheeler vehicle. It runs by using muscle power i.e. by pedalling with our legs.
- 35.** (c) Ritu made a incorrect statement because shrubs has woody stem, while trees has strong brown trunk.