

NSO CLASS 6

Total Questions: 50

Time:1hr.

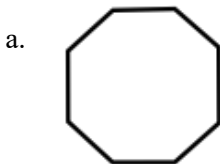
Section – 1 : Verbal and Non-Verbal Reasoning.

Section – 2 : Motion and Measurement of Distances, Light, Shadows and Reflections, Electricity and Circuits, Fun with Magnets, Our Environment (Water, Air Around us, Garbage in Garbage out), Sorting and Separation of Materials, Changes Around Us, The World of Living (Characteristics of Living Beings, Parts of Plants, Body Movements in Animals and Adaptation), Food and its Components, Fibre to Fabric.

Section – 3 : Higher Order Thinking Questions - Syllabus as per Section – 2.

SECTION 01 LOGICAL REASONING

1. Which of the following figures has maximum lines of symmetry?



2. Fill in the blank:

$$2000.0051 = 2000 + \underline{\hspace{2cm}} + 0.0001$$

a. 0.050

b. 0.005

c. 0.505

d. 0.001

3. A car covers 24.5 km in 4.2 L of petrol. How much distance will it cover using 2 L of petrol?

a. 5.833 km

b. 11.67 km

c. 13.45 km

d. 16.67 km

4. What is the HCF of 210, 350 and 546?

a. 14

b. 28

c. 7

d. 1

5. Which of the given options have a vertical line of symmetry?



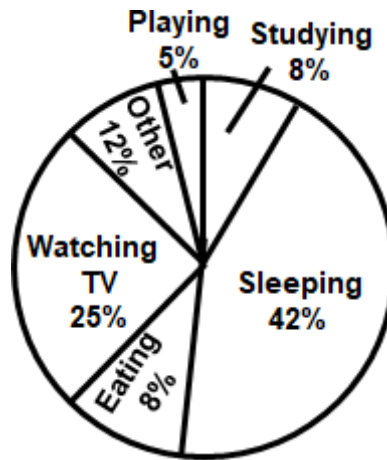
a. 1 and 2

b. 2 and 3

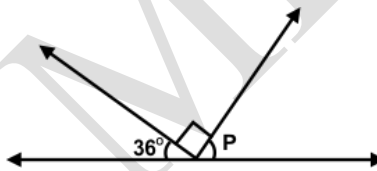
c. 3 and 4

d. 1, 2 and 4

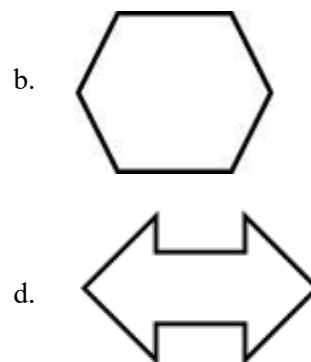
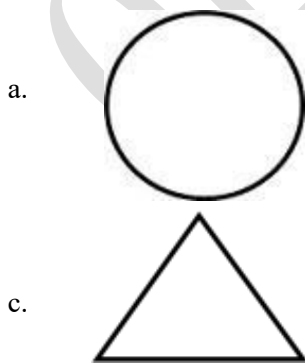
6. Ahek spends his Sunday doing many activities as shown in the pie chart. How much time does he spend on watching TV?



- a. 6 hours
b. 4 hours
c. 5 hours
d. 2 hours 10 minutes
7. Find the distance covered by a train in the month of October, if it is travelling without stopping for a single minute continuously at the speed of 68 km/hour
- a. 37,290 km
b. 50,592 km
c. 12,740 km
d. 64,280 km
8. Find the measure of $\angle p$ in the given figure:



- a. 63°
b. 54°
c. 90°
d. 144°
9. Which of the given shapes can have only 3 lines of symmetry?



3. Wet clothes to dry clothes
4. Dissolving sugar in water

What is the basis of the given grouping?

- a. They all show irreversible chemical changes.
 - b. They all show both physical and chemical changes taking place.
 - c. They all show reversible physical changes.
 - d. They all show no change in the states of matter.
16. Molly tried to look at a toy bike with red light through an object but he could only see a faint red light, not the toy bike.
Thus, we can conclude by saying that the object is a _____.

- a. mirror
- b. transparent object
- c. opaque object
- d. translucent object

17. Select the INCORRECT match from below:

1. Anaemia – Weakness
 2. Rickets - Tooth decay
 3. Scurvy - Bleeding gums
 4. Beriberi - Decreases muscle function
- a. 2 only
 - b. 4 only
 - c. Both 1 and 2
 - d. Both 1 and 3

18. Which of the following pairs are wrongly classified? M:

Nitrogen - Takes up four-fifths of the air space N:

Oxygen - End product of photosynthesis

O: Carbon dioxide - Production by factories

P: Smoke - Produced by plants

- a. M and N
- b. N and O
- c. M and P
- d. O and P

19. Given below is the picture of elbow joint and joint at the wrist. Identify the correct difference between these two joints:





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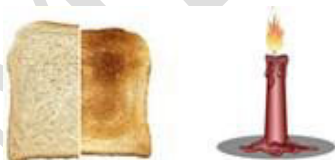
- a. 3 only
b. 2 only
c. Both 1 and 2
d. None of the above
- 24.** Separating mixtures is a scientific process in which two or more substances are separated which were once together. Separating mixtures is useful in many different ways. Identify the example of the way by which mixtures are separated to remove undesirable components:
- a. Removal of small stones from rice and pulses before cooking.
b. Churning milk to obtain butter.
c. Petrol and diesel are obtained from crude oil.
d. None of the above
- 25.** Which among the following pairs are not irreversible changes?
1. Dissolution
2. Rusted iron nails
3. Baking a potato
4. Freezing water
- a. 1 and 2
b. 2 and 3
c. 1 and 4
d. 3 and 4
- 26.** Two students were discussing the motion and this is what they said:
Ana: The needle of a sewing machine undergoes circular motion. Jack: Motion of a body thrown upward at an angle is rectilinear.
Choose the correct option regarding the above two statements:
- a. Ana is correct but Jack is incorrect
b. Ana is incorrect but Jack is correct
c. Both Ana and Jack are correct
d. Both Ana and Jack are incorrect
- 27.** State whether the following statements are true or false:
1. If the source of light is closer to the object, a smaller shadow is formed than when the source of light is far from the object.
2. The ground, walls of the rooms, a building, or other such surfaces act as a screen for the shadows you observe in everyday life.
- a. 1-True, 2-False
b. 1-False, 2-True
c. 1-True, 2-True
d. 1-False, 2-False

28. Robert was discussing fibres and fabrics with his classmate Shane and this is what they said:
Robert: Polyester burns slowly and does not shrink. It is always self-extinguishing. It leaves no ash but its black smoke and fume are hazardous.
Shane: Silk is a protein fibre which burns slowly and curls away from the flame. It is self-extinguishing. It gives out little or no smoke and the fume has no hazard.

Choose the correct option related to the two statements:

- a. Both Robert and Shane are correct
b. Both Robert and Shane are wrong
c. Robert is correct but Shane is wrong
d. Robert is wrong but Shane is correct
29. Which of the following method will Sarah use at home to separate husks, small stones and earthy materials from a bowl full of pulses?
- a. Threshing
b. Hand-picking
c. Sieving
d. Winnowing
30. Milk turns sour when kept outside for a long time. What kind of change does it depict?
- a. Irreversible chemical change
b. Reversible physical change
c. Irreversible physical change
d. Reversible chemical change

31. How is toasting of bread different from melting of wax?



- a. The toasting of bread is reversible change whereas the melting of wax is irreversible change.
b. The toasting of bread brings about change in state and composition whereas the melting of wax cause change in chemical properties.
c. The toasting of bread is a reversible physical change whereas the melting of wax is a chemical change.
d. The toasting of bread is irreversible change whereas the melting of wax is reversible change.
32. Observe the figure below and complete the following sentence: This distance-time graph indicates that _____.



- a. a car is parked or has stopped
b. a car is moving very fast
c. a car is moving with different speeds
d. a car is moving with a constant speed

33. Which of the following is/are NOT the characteristic feature(s) of the cotton ginning process?

- a. It refers to the process of separation of the cotton fibres from its seeds.
- b. It refers to the process of separation of the cotton fibres from its seeds.
- c. The stems of the cotton plants are immersed in water and allowed to rot for a few days in the process called retting.
- d. Both b and c

34. Read the statements given below and select the correct option:

Statement 1 - When the size of the foreign particle is too small to be picked by hand or when the quantity is too large, sieving is used for separating substances.

Statement 2 - Separating bran from flour is done by sieving.

- a. Statement 1 is correct but statement 2 is incorrect
- b. Statement 1 is incorrect but statement 2 is correct
- c. Both the statements are correct
- d. Both the statements are incorrect

35. Observe the picture below of three bulbs and correctly identify the type of object they are made of:



- a. A - Translucent object, B - Opaque object, C - Transparent object
- b. A - Opaque object, B - Transparent object, C - Translucent object
- c. A - Transparent object, B - Opaque object, C - Translucent object
- d. A - Translucent object, B - Transparent object, C - Opaque object

36. Given below are two groups of substances:

Group 1: Hay, Cow dung, Fruit peel, Twigs

Group 2: Glass, Batteries, Plastic box, Electronic waste
On what basis has these two grouping been done?

- a. Group 1 - Non-biodegradable wastes, Group 2 - Biodegradable wastes
- b. Group 1 - Biodegradable wastes, Group 2 - Non-biodegradable wastes
- c. Group 1 - Wastes that can be decomposed easily, Group 2 - Wastes that cannot be decomposed easily
- d. Both b and c

37. State the reason why glass windows appear hazy if not wiped off properly:

- a. Glass secretes water
- b. Presence of water vapour and dust particles in air that stick to the glass
- c. Glass windows are manufactured like that way
- d. Both a and c

38. In the following question, an assertion and a reason are given. Choose the correct option:

Assertion: Knitting is the process of arranging two sets of yarns together to make a fabric.

Reason: Knitting is exclusively used to make woollen garments.

- Both assertion and reason are true and reason is the correct explanation of assertion.
 - Both assertion and reason are true and reason is not the correct explanation of assertion.
 - Assertion is true but reason is false.
 - Both assertion and reason are false.
39. Plants do not move from one place to another in search of food and shelter. Some plants like Mimosa (Touch-me-not) show leaf movements, A sunflower always faces the sun. From the above paragraph what can be concluded?

- Plants can move their body parts.
 - Plants response to the stimulus.
 - Plants show locomotion.
 - Both a and b
40. Choose the correct option and complete the following sentence:
The light from torch when falls on a teddy bear, form a shadow on the screen behind the teddy bear as shown in the figure. As the torch is moved away from the teddy bear the shadow will_____.



- become smaller
 - become larger
 - change its shape
 - remain unchanged
41. State whether the following statements are true or false:
- Reusing materials after they have been changed into another form is called reusing.
 - Fog appearing on a cold winter morning is due to condensation.
 - Evaporation takes place from all open surfaces of water bodies so water vapour gets continuously added to the air.
 - A glass containing ice has water droplets around it. We can conclude that the glass of ice is not so strong hence water goes through the glass and settles outside.
- 1-False, 2-True, 3-True
 - 1-True, 2-True, 3-False
 - 1-True, 2-True, 3-True
 - 1-False, 2-False, 3-False



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42. Three students gave the following statements during a classroom discussion. This is what they said:

David: The motion of a vibrating tuning fork exhibits periodic motion. Nora: The blades of the fan is said to move in a rotatory motion.

James: The length of the footsteps is the same for different people. Which student(s) made incorrect statement(s)?

- a. David and Nora
- b. Nora and James
- c. James only
- d. David only

43. Which of the following will not allow electric current to pass through?

- 1. Plastic comb
- 2. Gold earring
- 3. Silver spoon
- 4. Wooden box
- 5. Copper utensil
- 6. Lime juice

- a. 1 and 4
- b. 2 and 3
- c. 5 and 6
- d. 1 and 6

44. Which of the following statement is INCORRECT related to nutrients present in food?

- 1. There is no loss in vitamins if fruits and vegetables are washed after peeling or cutting them.
- 2. The skins of many fruits are rich in many nutrients.
- 3. Cooking kills most of the nutrients present in foods.
- 4. Rice and pulses will lose their vitamins and minerals if they are repeatedly washed.

- a. A only
- b. B only
- c. Both A and B
- d. Both B and C

45. What do the following suggest about all living things?

- 1. Flowers of some plants bloom only at night.
- 2. In some plants, flowers close after sunset.
- 3. In some plants like a mimosa, commonly known as 'touch-me-not', leaves close or fold when someone touches them.
- 4. A boy removes finger instantly after touching hot iron.

- a. All living things need air, food and water to grow and survive.
- b. All living things respond to stimuli.
- c. All living things excrete.
- d. All living things move.

SECTION 03 ACHIEVER SECTION

46. What is common between the following symptoms?

Poor vision, loss of vision in darkness and sometimes complete loss of vision

- a. These are the symptoms of the deficiency of vitamin A.
- b. These are the symptoms of the deficiency of vitamin C.
- c. These are the symptoms of the deficiency of the mineral iron.
- d. These are the symptoms of the deficiency of the mineral iodine.

47. Which of the following pairs are wrongly classified?

P: Snakes and rats - Stay in burrows deep in the sand

Q: Snow leopard - Long ears to hear movements of predators

R: Mountain goats - Strong hooves for running up the rocky mountain

slopes S: Frogs - Breathe through blow holes located on the upper parts of their heads

- | | |
|------------|------------|
| a. P and Q | b. Q and R |
| c. R and S | d. Q and S |

48. Observe the two pictures shown below:

Identify the similarity between them related to the characteristics of all living things:



- a. All living things excrete or give out wastes.
- b. All living things move.
- c. All living things reproduce for the maintenance of its generation.
- d. All living things respire.

49. Spot the process that can be used to separate each of the following:

1. Cashews from mixture of almonds and cashew nuts
2. Sugar crystals from a mixture of red lentils
3. Small stones from a mixture of pulses.
4. Cut and cubed apples from a bowl of fruit salad.

- | | |
|--------------|-----------------|
| a. Winnowing | b. Hand-picking |
| c. Threshing | d. Sieving |

50. In the following question, an assertion and a reason are given. Choose the correct option:

Assertion: Primary cells can be recharged but secondary cells cannot be recharged. **Reason:**

Chemical reactions involved in primary cells are irreversible and in secondary cells are reversible.

- a. Both assertion and reason are true and reason is the correct explanation of assertion.
- b. Both assertion and reason are true and reason is not the correct explanation of assertion.
- c. Assertion is true but reason is false.
- d. Assertion is false but reason is true.



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