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OLYMPIAD EXPLORER



Workbook for
**Nationwide Interactive SCIENCE Olympiad & Other
National/International Olympiads/Talent Search Exams.**

Also useful for Nationwide Biotechnology Olympiad (NBTO)

Based on CBSE, ICSE, GCSE, State Board Syllabus & NCF (NCERT)

100's of Q's with answers

- Chapterwise Practice Q's
- Revision Q's
- Sample Paper



Class

4

EDUHEAL FOUNDATION

• LEARNING FOR LIFE •

EduHeal Foundation conducts 5 Olympiads annually reaching out to 3,500 + Schools
• 4 Lakh + Students • 50,000 Coordinating Teachers and having 500 Resource persons
in English / Maths / Science / Biotech / Computer & 300 Regional Coordinators.

PRIZES



WORKSHOP • TEACHER TRAINING PROG. • MAGAZINE/LAB GRANT • PRINCIPAL LEADERSHIP AWARD.

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SYLLABUS GUIDELINES*

Based on CBSE, ICSE & GCSE Syllabus & NCF guidelines devised by NCERT

1. Family and Friends

1.1 RELATIONSHIPS

Your mother as a child

When your mother was your age who were the relatives she lived with?

Where do babies come from?

Have you seen a newborn baby - where did she come from? Where does the puppy/ kitten/ calf/ chick come from? Do you know of people who are looking after/ have adopted a child?

My extended family

Are there things you learn from your family members? What? Do you do anything different from other members of your family? Do all your family members live with you all the time? When do you meet members of your family who do not live with you? What festivals do you celebrate together?

Feeling around with eyes shut

With your eyes and ears closed can you identify the people/animals living with you merely by touching/smelling? By touching can you tell if anything is cold/hot, wet/ dry, smooth/rough, sticky/slippery, soft/hard? Are there some things which you are not allowed to touch? Do you feel uncomfortable when some people touch you?

1. 2 Work and play

Fun and fights at play! Do you play the same games at school that you play at home? What things do you use to play with? Does the school provide these? Do you fight while you play? How do you decide the rules for the games? Does anyone stop you from playing? Who and why? Do you play with every child (boys and girls) in your neighbourhood? Are you stopped from playing with certain children?

How they learnt their skills

In your area do you know the people who do the following: make pots/stitch clothes/ make shoes/cure people/ build bridges/ embroider/fly planes/ repair cycles/ drive buses, etc? How well do you know them – their names, family etc? What tools do they use for their work? Where did they learn how to do these things?

Fun at the fair/Circus

Have you been to a fair or a circus? Which is the item you liked best – was it a ride, a game, something you saw/ate/bought? When do you fly kites? How do you make them fly?

1.3 Animals

Animals and their friends

Which animals like to move around in groups? Which animals are shy and do not come near you? Have you seen animals playing with or riding on different animals?

Who is attracted to flowers?

Why do bees/butterflies come to flowers? How do people collect the honey from bee hives?

Long ears or short?

Which animals have ears? Which animals have hair on their body?

1.4 PLANTS

Roots of plants

Do all plants need water to grow? Which part of the plant absorbs water from the soil? When you

tug at grass, why does it not come out easily? Why do plants/trees not get uprooted when there is a strong wind? Which roots are eaten by people during famine when nothing else grows?

Flowers

Which plants around us have flowers? Do they come only at some times of the year? How is the bud different from the flower? What are the different kinds of flowers we have seen – shapes, colours, petals, aroma, etc? What do we use flowers for? Do you eat any flower? Have you seen flowers motif painted on clothes, walls, floors, pots, animals?

Who sells flowers in our area? Where do these come from? How are flowers sold - for how much?

Whom do trees belong to?

Which plants/trees around you are looked after by people – by whom? Which are not? Whom do they belong to? Who eats the fruit of trees that grow wild?

2. FOOD

How we get our food

How does food reach us? Who grows it? How you seen vegetables and fruits growing? Have you seen plants of rice/ wheat/ dal etc? What are the spices do you know? Which spices can we recognize by smelling or tasting.

Special occasions

When do many people eat together? What food is eaten? Who cooks it? How is it served?

Does you get a mid day meal in school? - What items? Who provides the mid day meal?

Tongue and Teeth

How do we taste different foods? How do teeth help us to eat – are all teeth similar? Which teeth have I dropped and how are the new ones different?

Teeth, beaks and claws

Are the teeth of other animals similar to ours? Can we tell what birds eat by looking at their beaks? Are the claws of birds also different? Is their shape related to the food they eat?

3. SHELTER

Houses then and now

Do you live in houses similar to ones your grandparents lived in ? Are houses now made of similar materials as was used then? What are the differences?

Garbage?

What do you do with waste in your house? Where do you throw it? Do you reuse any waste materials? Who takes away the garbage?

Where animals live

Do animals live in shelters? Which animals live in water? On land? Underground? Are there any animals that we see only at night? Where do they go during the day? Do we know of animals that make their own shelter?

When birds make nests

When and why do birds make their shelter? Do all birds make nests? Where do different birds nest - when do they fly away?

With what different materials do birds make their nests?

Mapping our neighbourhood

Who are my neighbors? Do I have any of the following near my house – a school, grocery shop, market, well, river or pond? Where are they with respect to your house?

4. WATER

Water fit for drinking

What are the major natural sources of water in your area? Is the water fit for drinking – do you clean it at home? Do you know how dirty water can make you ill? Why do we not drink sea water? How is salt separated from sea water?

Water sources

Where do you see large amounts of water in your neighbourhood? Is it a tank/pond/canal/river/dam? What do men/ women/children/animals do with the water there? Is it used for bathing / washing? Who bathes/washes there and who does not? How can we ensure that this water is not made dirty?

Do you find factories/ people dumping garbage or harmful materials into rivers or seas? Are some animals also facing problems due to what we do to the rivers or seas?

Our river/sea

Which is the river closest to our locality? Do we find any change in the water flow in different seasons? Which are the big rivers we know of? Have you seen the sea? Which are the animals found in the sea/river?

Water vanishes when heated?

Why do puddles dry? In which season do wet clothes dry easily? When do they dry with difficulty? Have you seen and wondered where water droplets on the outside of a cold glass of water come from?

5. TRAVEL***Animals for transport***

Have you travelled on a tonga / horse carriage? How is it different from travelling on a bus? Are the horses well looked after? Have you seen a horseshoe? Why is it used? What materials have you seen being transported using animals? Are there any special occasions when you ride on animals?

Paying for travel

How do you pay for travel by train/bus/boat etc? Who issues/checks the bus /rail ticket? Which currency notes and coins have you seen? Pictures of which animals can we see on a ten rupee note? Which symbol is found on every coin? How many scripts can you recognise on a note? Who is the person whose face is shown on every currency note? What coins/notes did our grandparents use when they were young?

Travel to another place

Do you know anyone who has travelled very far from your village/city? Why did they go so far? What are they doing there? How do they travel when they visit your family?

6. Things We Make And Do***Building materials and tools***

How are bricks made? What tools have you seen being used for making a wall or a house? Is there a bridge to cross while coming to school? What kinds of bridges have we seen and where? How many kinds of bridges can we make?







REVISION QUESTIONS

QUESTIONS FROM PREVIOUS CLASS

- Q.1.** Pick the odd one out.
(a) chair (b) table
(c) chalk (d) lizard
- Q.2.** Animals have _____ to move
(a) legs (b) nose
(c) fingers (d) eyes
- Q.3.** Number of life processes which every living thing must possess is
(a) 3 (b) 7
(c) 4 (d) 15
- Q.4.** Identify the living thing in following.
(a) car (b) cat
(c) cart (d) none of these
- Q.5.** What is necessary for all living things?
(a) air (b) water
(c) both (d) none of these
- Q.6.** Select the odd one
(a) plants (b) animals
(c) vehicles (d) none of these
- Q.7.** Which flower is only yellow in colour
(a) Rose (b) Jasmine
(c) Sunflower (d) Lotus
- Q.8.** Which part of the plant act as a backbone of the plant?
(a) stem (b) leaves
(c) root (d) branch
- Q.9.** What are the things plants require to grow?
(a) water, heat & oxygen
(b) water, carbondioxide, sunlight
(c) water, sugar, air
(d) none of these
- Q.10.** The small pieces of branches of _____ tree is used for brushing & cleaning teeth.
(a) Rose (b) Guava
(c) Mango (d) Neem


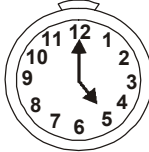
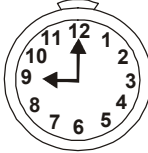
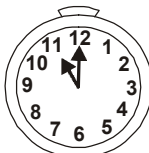
- Q.11.** Some fruits do not have seeds that can grow into a new plants.
One example is
(a) Water melon (b) Apple
(c) Banana (d) Guava
- Q.12.** Which part of plant grow into fruits?
(a) stem (b) root
(c) flower (d) leaf
- Q.13.** Which of the following makes a sound just at the time of sunrise?
(a) dog (b) cat
(c) cow (d) cock
- Q.14.** The insect which weaves a web to catch its food (insects) is
(a) frog (b) fish
(c) spider (d) snake
- Q.15.** I have decorated feathers I am a?
(a) mosquito (b) fish
(c) butterfly (d) crow
- Q.16.** Shoes and bags are made from
(a) leather (b) feather
(c) fur (d) wool
- Q.17.** _____ extract nectar from flowers to give honey
(a) house fly (b) butterfly
(c) honey bee (d) mosquito
- Q.18.** _____ is found in homes on walls near tube lights?
(a) cockroach (b) dog
(c) rat (d) lizard
- Q.19.** We put on woollen clothes in
(a) winter (b) summer
(c) spring (d) monsoon
- Q.20.** There is lot of sweating on a
(a) windy day (b) sunny day
(c) rainy day (d) cold day
- Q.21.** We take up umbrellas & raincoats on
(a) rainy day (b) sunny day
(c) cold day (d) windy day
- Q.22.** During summer, we put on
(a) cotton clothes (b) woollen clothes
(c) silk clothes (d) none of these
- Q.23.** Clothes dry quickly on

- (a) rainy day (b) cold day
(c) sunny day (d) none of these
- Q.24.** We can see rainbow on
(a) sunny day (b) rainy day
(c) cloudy day (d) none of these
- Q.25.** Which one of the following are used to keep ourselves comfortable during winter?
(a) cotton clothes (b) fans
(c) room heaters (d) air conditioners
- Q.26.** Which of the following does not need to be chewed before swallowing
(a) chappatti (b) apple
(c) milk (d) chocolate
- Q.27.** Which of the following is not used to give taste to the dal?
(a) salt (b) sugar
(c) pulses (d) none of these
- Q.28.** Why should we wash fruits before eating?
(a) washing fruits makes them tasty
(b) washing cleans the fruits & makes it safe for eating
(c) Both of these
(d) none of these
- Q.29.** Food we get from animals is
(a) pulses (b) egg
(c) rice (d) vegetables
- Q.30.** Which of the following can't be cooked from rice?
(a) dosa (b) pulao
(c) chappatti (d) none of these
- Q.31.** Which of the following is not a vegetable?
(a) cabbage (b) cauliflower
(c) plum (d) none of these
- Q.32.** Which of the following is not a cereal?
(a) rajma (b) wheat
(c) rice (d) none of these
- Q.33.** We should not cook food for very long because
(a) food will burn
(b) excessive cooking leads to loss of nutrients
(c) both (a) & (b)
(d) none of these
- Q.34.** The biggest sense organ is
(a) skin (b) ear

- (c) nose (d) tongue
- Q.35.** Which sense organ helps in identify a bad smell near dustbins?
 (a) nose (b) ear
 (c) eyes (d) skin
- Q.36.** Which sense organ tell us the food is bitter in taste?
 (a) ear (b) eyes
 (c) tongue (d) teeth
- Q.37.** The sense organ which is affected when we are suffering from cold.
 (a) eyes (b) skin
 (c) nose (d) tongue
- Q.38.** Which of the following helps us chew food?
 (a) teeth (b) skin
 (c) lips (d) tongue
- Q.39.** When we take ice in a glass, after sometimes, it melts and we get
 (a) ice (b) salt
 (c) water (d) none of these
- Q.40.** Which of the following do not need water?
 (a) man (b) plants
 (c) animals (d) toys
- Q.41.** In which container the water will evaporate most speedily?
- (a)  (b) 
- (c)  (d) 
- Q.42.** Water is used for
 (a) running water mills (b) making electricity
 (c) both (a) and (b) (d) none of these
- Q.43.** Which of the following things can be dissolved in water
 (a) salt (b) glucose
 (c) sugar (d) all of these
- Q.44.** Form of water having definite shape is
 (a) ice (b) water
 (c) vapours (d) none of these
- Q.45.** Which of the following will mould its shape as per the container in which it is kept ?

- (a) milk (b) stone
 (c) oxygen (d) none of these
- Q.46.** Look at the picture



- The person in the picture is a
- (a) doctor (b) postman
 (c) teacher (d) traffic police
- Q.47.** _____ repairs & make things of iron
 (a) cobbler (b) goldsmith
 (c) blacksmith (d) carpenter
- Q.48.** A carpenter
 (a) sews our clothes (b) looks after garden
 (c) repairs & makes wooden objects
 (d) mends our shoes
- Q.49.** A traffic police carries a _____ in his hands?
 (a) whistle (b) stick
 (c) knife (d) scissors
- Q.50.** When do you go to school?
 (a) in the morning (b) in evening
 (c) at night (d) in afternoon
- Q.51.** Which of the following faces of clocks represent the time to sleep at night?
- (a)  (b) 
- (c)  (d) 
- Q.52.** _____ is overcrowded residential area inhabited by poor people in cities
 (a) slum (b) tent
 (c) shikara (d) huts
- Q.53.** The workers who build our houses are called

- (a) engineer (b) constructors
(c) mason (d) none of these
- Q.54.** The walls of some houses in extremely hot areas are made thick to
(a) make it stronger
(b) to keep the interior of house cool
(c) to make the house look good
(d) none of these
- Q.55.** The houses of Eskimos are called
(a) Igloo (b) tent
(c) houseboat (d) shikara
- Q.56.** Igloos are found in
(a) rainy areas (b) snowy areas
(c) hot areas (d) none of these
- Q.57.** In villages, houses are generally made up of
(a) cement (b) brick
(c) snow (d) mud
- Q.58.** The cheapest source of mass communication is
(a) newspaper (b) radio
(c) telephone (d) television
- Q.59.** _____ have made it possible for us to see live telecast of events on T.V.
(a) internet (b) radio
(c) satellite (d) none of these
- Q.60.** The telephone service between two states is
(a) STD (b) ISD
(c) PCO (d) none of these
- Q.61.** The overseas telephone service is
(a) ISD (b) STD
(c) PCO (d) none of these
- Q.62.** Full form of email is
(a) electronic mail (b) effective mail
(c) electrical mail (d) none of these
- Q.63.** The six digit number written at the last in address written on letters is
(a) STD number (b) mobile no.
(c) PIN code (d) none of these
- Q.64.** Which is not a two wheeler?
(a) cycle (b) bike
(c) car (d) scooter

- Q.65.** Which one is a three wheeler?
(a) car (b) train
(c) auto rickshaw (d) bus
- Q.66.** Which has a large no. of wheels?
(a) train (b) truck
(c) bus (d) scooter
- Q.67.** Which one is the fastest means of transport among all?
(a) bicycle (b) car
(c) ship (d) metro train
- Q.68.** Which one is the fastest means of transport among all?
(a) bus (b) train
(c) metro train (d) aeroplane
- Q.69.** _____ does not need fuel for running?
(a) scooter (b) cycle
(c) car (d) jeep
- Q.70.** _____ runs on a railed tracks on the road
(a) metro trains (b) tram
(c) truck (d) bus



ANSWERS

1. (d) 2. (a) 3. (b) 4. (b) 5. (c) 6. (c) 7. (c) 8. (a)
9. (b) 10. (d) 11. (c) 12. (c) 13. (d) 14. (c) 15. (c) 16. (a)
17. (c) 18. (d) 19. (a) 20. (b) 21. (a) 22. (a) 23. (c) 24. (b)
25. (c) 26. (c) 27. (b) 28. (b) 29. (b) 30. (c) 31. (c) 32. (a)
33. (c) 34. (a) 35. (a) 36. (c) 37. (c) 38. (a) 39. (c) 40. (d)
41. (b) 42. (c) 43. (d) 44. (a) 45. (a) 46. (b) 47. (c) 48. (c)
49. (a) 50. (a) 51. (c) 52. (a) 53. (c) 54. (b) 55. (a) 56. (b)
57. (d) 58. (a) 59. (c) 60. (a) 61. (a) 62. (a) 63. (c) 64. (c)
65. (c) 66. (a) 67. (d) 68. (d) 69. (b) 70. (b)



Chapter 1 PLANTS

- Q.1.** Which of the following plant grows in water?
(a) rose (b) dahlia
(c) lotus (d) china rose
- Q.2.** Which of the following is not a fruit giving plant?
(a) mango (b) banana
(c) eucalyptus (d) coconut tree
- Q.3.** Which part of a tree is called trunk?
(a) roof (b) leaves
(c) stem (d) fruit
- Q.4.** Which part of the plant hold it to the soil?
(a) branches (b) leaves
(c) stem (d) roots
- Q.5.** Stem of which plant is thick but soft?
(a) guava (b) banana
(c) mango (d) palm
- Q.6.** In some plants, leaves look like thorns. One such example is
(a) cactus (b) rose plant
(c) gooseberry plant (d) lotus
- Q.7.** Which one is a thorny plant?
(a) banana plant (b) sun flower
(c) rose plant (d) papaya plant
- Q.8.** Which tree is found in plenty in deserts?
(a) coconut tree (b) mango tree
(c) date palm (d) neem
- Q.9.** Which part of the plant is called food factory?
(a) root (b) stem
(c) leaves (d) flowers
- Q.10.** The green pigment necessary for photosynthesis is
(a) chloroplast (b) leaves
(c) stem (d) chlorophyll
- Q.11.** Plant prepare their food during
(a) night (b) day
(c) evening (d) none of these
- Q.12.** During photosynthesis which gas in given out?
(a) CO₂ (b) O₂
(c) CO (d) none of these

- Q.13.** The process by which green plants make their own food is called
(a) germination (b) reproduction
(c) photosynthesis (d) none of these
- Q.14.** Plants make their food in the presence of
(a) sunlight (b) tube light
(c) moonlight (d) none of these
- Q.15.** _____hold the plant to the ground?
(a) roots (b) branches
(c) stem (d) none of these
- Q.16.** The most beautiful & coloured parts of a flower is
(a) petal (b) sepal
(c) calyx (d) stigma
- Q.17.** The outer most part of a flower which are like small leaves is
(a) petal (b) sepal
(c) sigma (d) style
- Q.18.** A collection of sepals are called
(a) calyx (b) petal
(c) leaves (d) none of these
- Q.19.** Which of the following is not a medicinal plant?
(a) belladonna (b) neem
(c) eucalyptus (d) mango tree
- Q.20.** Which one of the following is not a deciduous tree?
(a) maple (b) coconut
(c) oak (d) aspen
- Q.21.** Which part of an apple tree becomes the fruit?
(a) stem (b) root
(c) leaves (d) flower
- Q.22.** Which of these is a natural resources coming from plant?
(a) steel (b) cement
(c) wood (d) iron



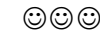
ANSWERS

1. (c) 2. (c) 3. (c) 4. (d) 5. (b) 6. (a) 7. (c) 8. (c)
9. (c) 10. (d) 11. (b) 12. (b) 13. (c) 14. (a) 15. (a) 16. (a)
17. (b) 18. (a) 19. (d) 20. (b) 21. (d) 22. (c)



- Q.1.** Which of the following has two legs?
 (a) goat (b) cow
 (c) hen (d) cat
- Q.2.** The animal which can live both on land & in water is called
 (a) aquatic (b) terrestrial
 (c) arboreal (d) amphibian
- Q.3.** Which one of the following is an amphibian ?
 (a) fish (b) frog
 (c) starfish (d) rat
- Q.4.** The animal which lives in a hard shell is
 (a) lizard (b) chameleon
 (c) snail (d) frog
- Q.5.** Which of the following is a wild animal?
 (a) dog (b) fox
 (c) donkey (d) horse
- Q.6.** Which one of the following is arboreal?
 (a) dog (b) cat
 (c) earthworm (d) monkey
- Q.7.** Six legs are found in
 (a) fish (b) man
 (c) dog (d) insects
- Q.8.** The insect which weaves a web to catch its food is
 (a) frog (b) fish
 (c) spider (d) shake
- Q.9.** Animals having backbone are
 (a) vertebrates (b) invertebrates
 (c) amphibians (d) none of these
- Q.10.** Which of the following does not have backbone?
 (a) reptiles (b) dog
 (c) cat (d) None of these
- Q.11.** Zoology does not deals with the study of
 (a) animals (b) birds
 (c) insects (d) plants
- Q.12.** Whale is a
 (a) mammal (b) reptile

- (c) insect (d) none of these
- Q.13.** Which of the following animals are present in extremely hot & dry areas?
 (a) dog (b) tiger
 (c) camel (d) giraffe
- Q.14.** The process of producing young one is called
 (a) revolution (b) reduction
 (c) reproduction (d) none of these
- Q.15.** The animal with lives on trees are called
 (a) aquatic (b) terrestrial
 (c) arboreal (d) aerial
- Q.16.** The animal with extraordinarily powerful sense of smell is
 (a) cat (b) cow
 (c) dog (d) none of these
- Q.17.** The animal which swallows the food as a whole?
 (a) fish (b) giraffe
 (c) snake (d) lion
- Q.18.** Which of the following give birth to a young one?
 (a) lizard (b) frog
 (c) fish (d) rat
- Q.19.** Which one of the following is oviparous?
 (a) cow (b) dog
 (c) goat (d) platypus
- Q.20.** Dinosaur resembles a
 (a) lizard (b) cow
 (c) whale (d) monkey



ANSWERS

1. (c) 2. (d) 3. (b) 4. (c) 5. (b) 6. (d) 7. (d) 8. (c)
 9. (a) 10. (d) 11. (d) 12. (a) 13. (c) 14. (c) 15. (c) 16. (c)
 17. (c) 18. (d) 19. (d) 20. (a)



NATIONWIDE INTERACTIVE SCIENCE OLYMPIAD (NISO) SAMPLE PAPER

Total duration : 40 Minutes

Total Marks : 25

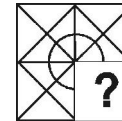
GENERAL I.Q.

- Neck is related to Tie in the same way as Waist is related to?
 (a) Watch (b) Belt (c) Ribbon (d) Shirt
- In the following question, a sequence of groups of letters and numbers is given with one term missing as shown by (?). Choose the missing term out of the given alternatives.

D-4, F-6, H-8, J-10, ?, ?

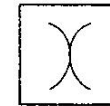
- (a) K-12, M-13 (b) L-12, M-14
 (c) L-12, N-14 (d) K-12, M-14

- In the following question, complete the missing portion of the given pattern by selecting from the given alternative (a), (b), (c), and (d)



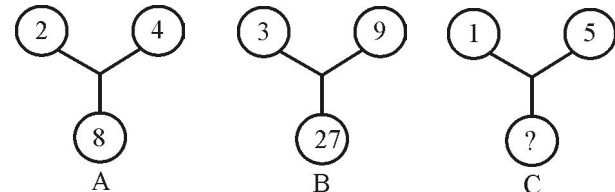
- (a) (b) (c) (d)

- Figure X is somewhere hidden in any one of the following figure. Which is that?



- (a) (b) (c) (d)

- Direction : In the following question, a set of figures carrying certain characters, is given. Assuming that the characters in each set follow a similar pattern, find the missing character at position ?



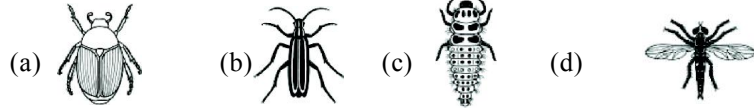
- (a) 75 (b) 6 (c) 25 (d) 5

SCIENCE

6. Insect Observations

- | | |
|---------------------|----------------------------|
| 1 thin body | 2 small head |
| 3 two long antennae | 4 two small eyes |
| 5 six legs | 6 black with white stripes |

Which of the following is most similar to the insect data collected above?



7. Magnets will stick to refrigerator doors because the doors are
- | | |
|--------------------------|-------------------|
| (a) Painted with plastic | (b) Made of metal |
| (c) Easy to open | (d) Heavy |
8. These three plants have all been growing on the same sunny windowsill for 6 weeks. What may have caused the difference in appearance?



- | | |
|--------------------------------|--------------------------------|
| (a) Different amounts of light | (b) Temperature differences |
| (c) Different-sized pots | (d) Different amounts of water |
9. Nishi throws a ball up in the air. What will happen to the ball?
- | |
|---|
| (a) The ball will come down to the ground after having a height |
| (b) The ball will stay in the air |
| (c) The ball will go up higher and higher and will never return to the ground |
| (d) None of these |
10. The grass is sometimes wet in the morning, even on days without rain. What is the source of the water on the grass?
- | |
|--|
| (a) Water evaporates from the grass |
| (b) Water in the air condenses on the grass |
| (c) Water on the grass is absorbed by the soil |
| (d) None of these |
11. Why is soil important to the plant?
- | |
|---|
| (a) The soil prevents dust from getting to the leaves. |
| (b) The soil provides support and nutrients for the grass. |
| (c) The soil provides a place for insects and worms to live |
| (d) All the above |
12. Students are studying some leaves. They group the leaves by shape. Which science process are the students using when they put the leaves in different groups?

- | | |
|-----------------|-------------------|
| (a) Classifying | (b) Predicting |
| (c) Measuring | (d) Experimenting |

13. Four materials are put into small containers. These materials are then moved from the small containers to larger containers.

Which material will spread out to completely fill the larger container?

- | | | | |
|---------|---------|----------|-----------|
| (a) Air | (b) Ice | (c) Sand | (d) Water |
|---------|---------|----------|-----------|

14. Which statement correctly describes a property of a type of matter?

- | | |
|--------------------------------|--------------------------------|
| (a) Air is a mixture of gases. | (b) Ice is a mixture of gases. |
| (c) Air is a liquid. | (d) Ice is a liquid. |

15. A student is studying the parts of a leaf.



Which tool will most help the student count all the veins in the leaf?

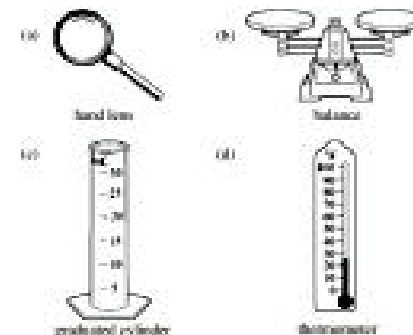
16. During an investigation Atul and Vibha collected the following data.

Amount of Light vs. Height of Grass

Amount of Light (hours)	Average Height of Grass (cm)			
	Start	Week 1	Week 2	Week 3
2	1	2	3	4
6	1	3	5	7
12	1	5	9	13

What question were Atul and Vibha asking in their investigation?

- | |
|---|
| (a) How does the amount of light affect the colour of grass? |
| (b) How does the amount of light affect the thickness of grass? |
| (c) How does the amount of light affect the height of grass? |
| (d) None of these |



17. The given picture best shows that air has -

- (a) Oxygen
(b) Moisture
(c) Mass
(d) Energy

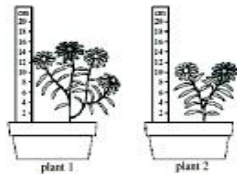


18. The picture shows a stick of clay. When the clay was cut into pieces, which of these was the only thing that changed?



- (a) Its softness
(b) Its stickiness
(c) Its colour
(d) Its shape

19. Students are studying the growth of the two plants shown below.



They are preparing a report about these plants. Which data table should be in their report?

(a) **Growth of Plants**

Plant	Height (cm)	Number of Leaves	Number of Flowers
1	14	19	3
2	8	15	1

(b) **Growth of Plants**

Plant	Height (cm)	Number of Leaves	Number of Flowers
1	16	19	4
2	12	15	2

(c) **Growth of Plants**

Plant	Height (cm)	Number of Leaves	Number of Flowers
1	16	10	4
2	12	8	2

(d) **Growth of Plants**

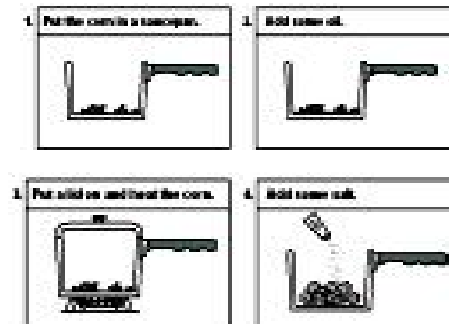
Plant	Height (cm)	Number of Leaves	Number of Flowers
1	14	10	3
2	8	8	1

EduSys Interactive Learning

These questions are designed that they can be performed in the class / lab and can be used by the Coordinator Teacher to enhance understanding of basic science concepts.

Data for questions 20 and 21.

Saba watches her father making some popcorn. These pictures show what he does.



20. Which of the following observation is the wrong one?

- (i) Pop corn gets smaller
(ii) Pop corn changes to a lighter colour
(iii) Corns change shape
(iv) Corn gets smoother
- (a) (i) and (iii)
(b) (ii) and (iv)
(c) (i) and (iv)
(d) None of these

21. Tick the one that shows what is most likely to cause the corn to change.

- (a) Salt
(b) Oil
(c) Heat
(d) Saucepan

22. Which of these is floating on water but sinking in oil?



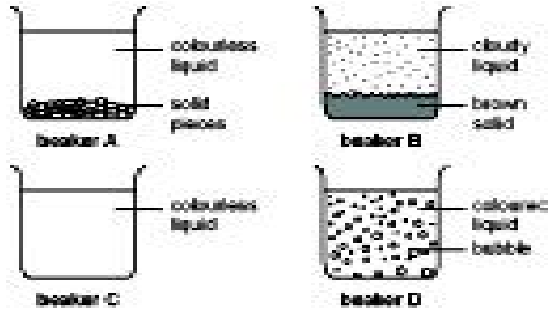
- (a) The paper clip (b) The marble
(c) The ice cube (d) The balloon

23. What would Meena be able to measure using this tool?



- (a) Wind temperature
(b) Wind direction
(c) Wind speed
(d) None of these

24. Sonia wants to find out what happens when solids are mixed with water. She adds water to four different solids and stirs the mixtures. After 20 minutes she draws the pictures of her results.

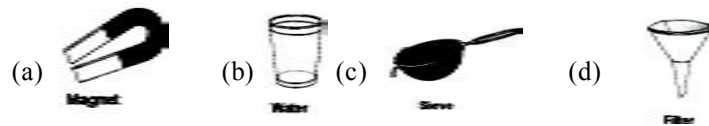


Which of the following solid can never be expected in beaker C?

- (a) Salt (b) Sugar
(c) Plastic beads (d) None of these

25. Priya has a dry mixture of stones, salt and sand.

She has these four pieces of equipment to help her separate the mixture. Which of the following is of no use to her?



☺ END OF THE EXAM ☺

ANSWERS

1. (b) 2. (c) 3. (d) 4. (d) 5. (d)
6. (b) 7. (b) 8. (a) 9. (a) 10. (b)
11. (b) 12. (a) 13. (a) 14. (a) 15. (a)
16. (c) 17. (c) 18. (d) 19. (b) 20. (c)
21. (c) 22. (c) 23. (c) 24. (c) 25. (a)

