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Level - 1 : All Level-1 successful* participants will get certificate, aptitude report and online subscription, and school toppers will be eligible for school hero medals.

Level - 2 : School toppers* will be selected for level-2-National level - online computer based interactive test held at exam centres all over India. Besides selection for level-3, winner will get merit certificate, medals, educational CDs, laptop, scholarship and other prizes. There is no level 2 in Art, G.K. and Biotech.

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*# See prospectus/website for details

- You are allowed additional 10 minutes to fill the required details in the **RESPONSE SHEET (OMR)**. **STUDENTS OF CLASS 1 & 2 HAVE TO UNDERLINE** THE CORRECT ANSWER IN THE QUESTION PAPER ITSELF. THEY ARE NOT REQUIRED TO USE THE RESPONSE SHEET (OMR). THEY HAVE TO FILL THEIR NAME, ROLL NUMBER, CLASS, SCHOOL NAME IN THE SPACE PROVIDED IN THE QUESTION PAPER.
- The question paper is made as per syllabus guidelines & pattern given in the information Booklet. The Question Paper for Classes 1 to 6 contains 25 Questions each to be answered in 40 minutes. The Question paper for classes 7 to 12 contains 50 Questions each to be answered in 60 minutes. All questions are compulsory. Further instructions are given in the instruction letter to the teacher.
- Use the response sheet to mark your responses by darkening the required circle. The response sheet has to be returned to the foundation, duly filled in. **THE STUDENT CAN RETAIN THE QUESTION PAPER EXCEPT FOR CLASSES 1 AND 2.**

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7
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GENERAL IQ

- The smallest odd number formed by using the digits 1, 0, 3, 4 and 5 is:
(1) 10345 (2) 10453
(3) 10543 (4) None of these
- How many times will the digit 9 occur while writing numbers from 1 to 100?
(1) 9 (2) 10
(3) 20 (4) None of these
- On subtracting $\frac{1}{3}$ from 2, what will remain?
(1) $1\frac{1}{3}$ (2) $1\frac{2}{3}$
(3) $\frac{4}{3}$ (4) None of these

4. $\frac{7}{21} \frac{7}{21} \frac{7}{21} ?$

- (1) $\frac{21}{63}$ (2) $\frac{1}{27}$
(3) $\frac{21}{47}$ (4) None of these

5. The simplification of

$10 + 4 \div 2 - 3 \times 2 + 4 \div 2 \times 2 - 4$ gives:

- (1) 0 (2) 1
(3) 6 (4) None of these

6. The LCM of two numbers is p and their HCF is q . The product of the two numbers is:

- (1) $p q$ (2) p / q
(3) q / p (4) None of these

7. The cost of 10 chairs is the same as the cost of 6 tables. If the cost of a table is ₹ 400, the total cost of 10 chairs and 3 tables will be:

- (1) ₹ 2400 (2) ₹ 3500
(3) ₹ 3600 (4) None of these

8. A bus needs 27 litres of diesel for running 324 km distance. How many kilometres will it go in 20 litres?

- (1) 240 km (2) 260 km
(3) 300 km (4) None of these

9. A watch and a pen together costs ₹ 140. If the cost of the watch be 6 times the cost of the pen, the cost of the watch will be:

- (1) ₹ 20 (2) ₹ 60
(3) ₹ 120 (4) None of these

10. A tank is 6 m long, 4 m wide and $1\frac{1}{2}$ m high.

The volume of water in the tank is:

- (1) 24 cub. m (2) 36 cub. m
(3) $11\frac{1}{2}$ cub. m (4) None of these

GENERAL SCIENCE

11. If you stand before a plane mirror, your left hand appears right. This phenomenon is

- (1) Reflection of light
(2) Lateral inversion of light
(3) Shadow formation
(4) None of these

12. Materials required to prepare a food item are called

- (1) Nutrients (2) Ingredients
(3) Nourishments (4) None of these

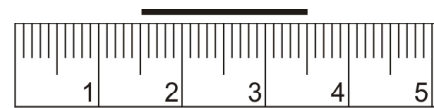
13. Read the following statements about diseases.

- (i) They are caused by germs.
(ii) they are caused due to lack of nutrients in our diet.
(iii) they can be passed on to another person through contact.
(iv) They can be prevented by taking a balanced diet.

Which pair of statements best describe a deficiency disease?

- (1) (i) and (ii) (2) (ii) and (iii)
(3) (ii) and (iv) (4) None of these

14. What is the correct measurement of the thread as shown in the scale below?



- (1) 1.5 cm (2) 1.9 cm
(3) 3.4 cm (4) None of these

15. A material which does not allow the electricity to pass through it is _____.

- (1) Conductor (2) Electric cell
(3) Insulator (4) None of these

16. We group things together because _____

- (1) Dividing materials in groups makes it convenient to study their properties and observe patterns in these properties.
(2) We can throw away similar materials
(3) We can keep similar materials in our rack at one place
(4) None of these

17. The materials, through which objects can be seen, but not clearly, are known as _____.

- (1) Transparent (2) Translucent
(3) Opaque (4) None of these

18. The solubility of water _____ with an increase in water.

- (1) Increases (2) Decreases
(3) Remains same (4) None of these

19. The process in which solid changes directly to vapour form without becoming liquid is called

- (1) Sedimentation
(2) Sublimation
(3) Evaporation
(4) None of these

20. Salt can be separated from its solution (salt dissolved in water), because

- (1) Mixing of salt in water is a change that can be reversed by heating and melting of salt
(2) Mixing of salt in water is a change that cannot be reversed
(3) Mixing of salt in water is a change that can be reversed by evaporation
(4) None of these

21. Which of the following can be considered as fast change?

- (1) Growth of child
- (2) Germination of seed
- (3) Bursting of crackers
- (4) None of these

22. Which plant is the example of a herb?

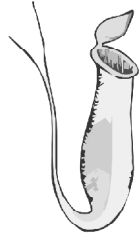
- (1) Mango
- (2) Neem
- (3) Rose
- (4) None of these

23. The part of the plant which prevents soil erosion is

- (1) Stem
- (2) Flower
- (3) Root
- (4) None of these

24. Pitcher is an example of:

- (1) Insectivorous plant
- (2) Leguminous plant
- (3) Algae
- (4) None of these



25. The head and tail of the fish are smaller than the middle portion of the body—the body tapers at both ends. This body shape is called streamlined. It helps the fish to

- (1) Swim
- (2) Cut through water
- (3) To attack its enemy
- (4) None of these

26. _____ are organisms which cannot prepare their food.

- (1) Autotrophs
- (2) Phototrophs
- (3) Heterotrophs
- (4) None of these

27. Anything which produces a response in an organism is called as _____.

- (1) Life cycle
- (2) Adaptation
- (3) Stimulus
- (4) None of these

28. Motion of a butterfly can be described as _____.



- (1) Periodic motion
- (2) Circular motion
- (3) Random motion
- (4) None of these

29. The process of making yarn from fibres is called _____.

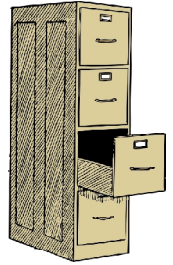
- (1) Weaving
- (2) Spinning
- (3) Knitting
- (4) Looming

30. Which one of the following is a carnivorous animal?

- (1) Sparrow
- (2) Owl
- (3) Parrot
- (4) None of these

31. The motion of a drawer table can be termed as _____.

- (1) Periodic motion
- (2) Circular motion
- (3) Translatory motion
- (4) None of these



32. Match the following

Column A

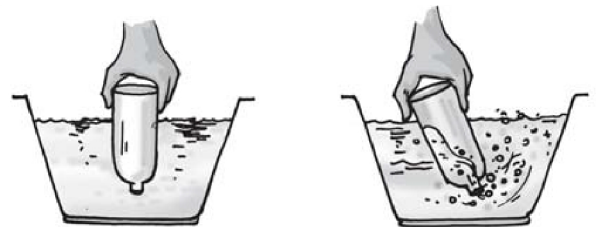
- a. Moon
- b. Sun
- c. Brick
- d. Mirror
- e. Tracing paper

Column B

- i. Translucent
- ii. Opaque
- iii. Reflecting surface
- iv. Luminous
- v. Non-luminous

- (1) (a) – (i), (b) – (ii), (c) – (iii), (d) – (iv), (e) – (v)
- (2) (a) – (v), (b) – (ii), (c) – (iv), (d) – (iii), (e) – (i)
- (3) (a) – (v), (b) – (iv), (c) – (ii), (d) – (iii), (e) – (i)
- (4) None of these

33.



Take an empty glass bottle. Turn it, upside down. Now, dip the open mouth of the bottle into the bucket filled with water. Now tilt the bottle slightly. You can see bubbles coming out of the bottle or hear any bubbly sound. Which of the following cannot be inferred from this activity?

- (1) Air is everywhere. It is present even in the empty bottle.
- (2) Air does not have any colour and it is transparent.
- (3) Air has weight.
- (4) None of these



34.

This is a wind mill. It uses air for:

- (1) Making it move and thus it is able to generate electricity.
- (2) Making it move to show the direction of the wind.
- (3) Making it move to show signals.
- (4) None of these

35. What can we do to minimise over use of plastics and deal with garbage?

- (1) We should insist shopkeepers to use paper bags.
- (2) We shouldn't throw plastic bages here and there, after use.
- (3) We should never burn plastic bags and other plastic items.
- (4) All of these

36. Earthworm fixes part of its body during movement to the soil using:

- (1) Muscles which helps to extend and shorten the body.
- (2) Skin which is slimy to touch.
- (3) Tiny bristles projecting out which are connected to the muscles.
- (4) None of these

37. Baking of dough into bread is a kind of change

- (1) That can be reversed.
- (2) That cannot be reversed.
- (3) Which is chemical.
- (4) None of these

38. Pollen grain are produced in _____.

- (1) Flower
- (2) Anthers
- (3) Ovaries
- (4) None of these

39. We move our hands immediately if we touch the hot object. In this case which is the stimulus?

- (1) Hand
- (2) Brain
- (3) Hot object
- (4) None of these

40. An electric cell has _____ terminals.

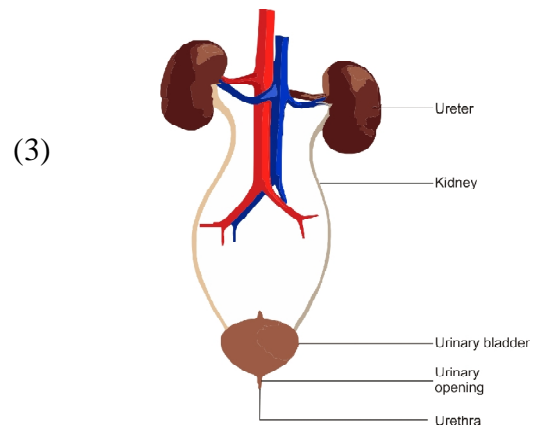
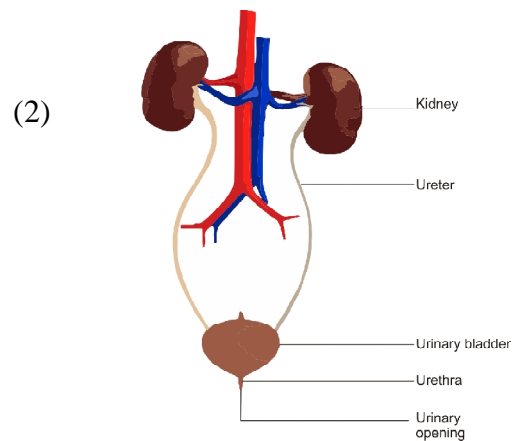
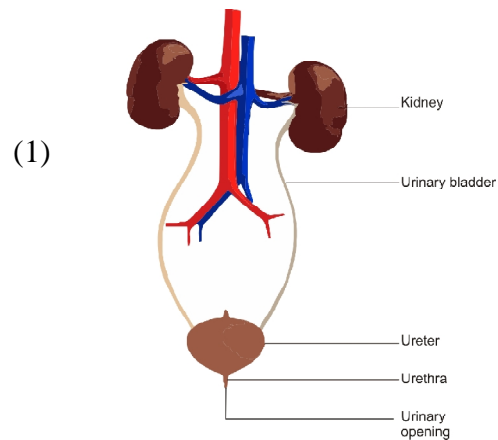
- (1) 2
- (2) 4
- (3) 1
- (4) None of these

INTERACTIVE SECTION

41. According to the laws of Reflection,

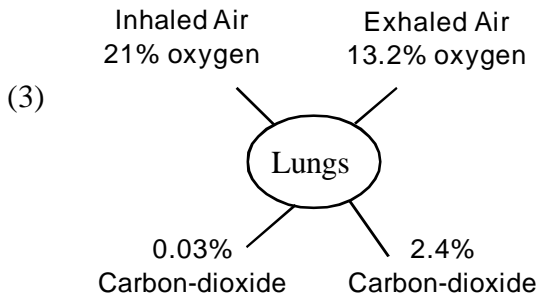
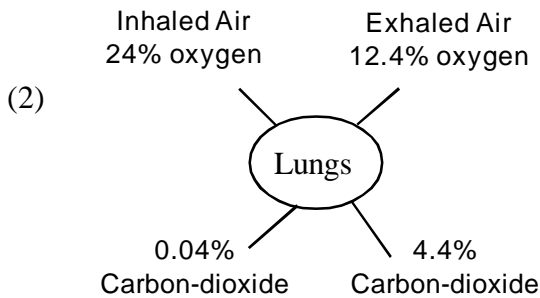
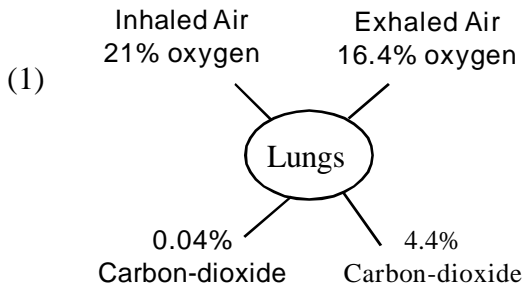
- (1) $i = r$
- (2) $i > r$
- (3) $i < r$
- (4) None of these

42. Choose the correct labelled diagram of human excretory system



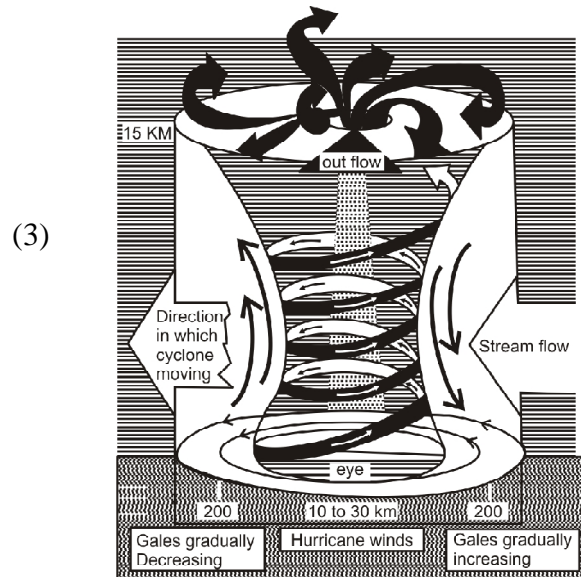
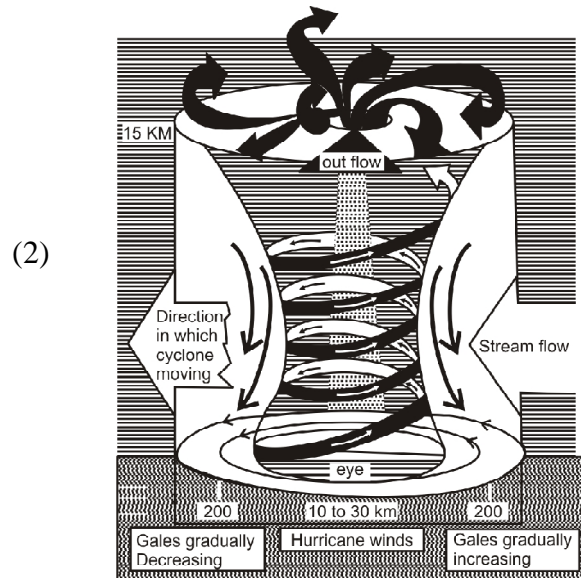
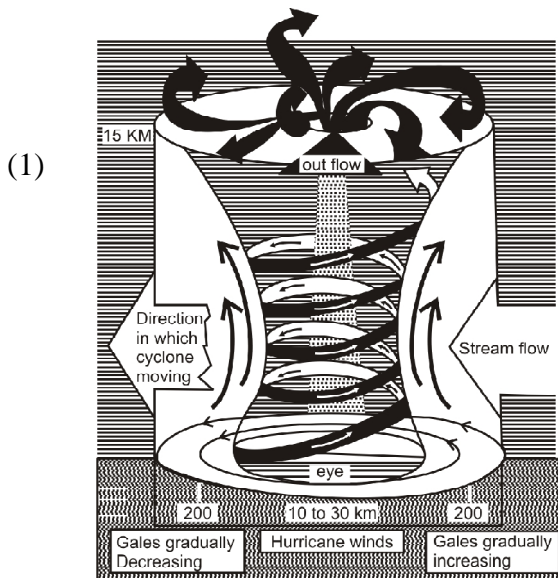
(4) None of these

43. Choose the correct diagram which represents the percentage of oxygen and carbon-dioxide in inhaled and exhaled air:



(4) None of these

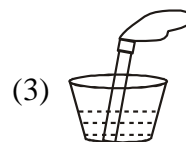
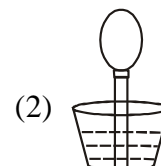
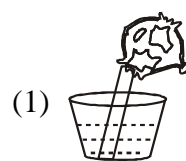
44. Choose the correct diagram which represents the formation of cyclone:



(4) None of these

45. Look at the diagram and answer the given question:

What will happen to the balloon if it is immersed in hot water?



(4) None of these

46. Choose the correctly marked option:

(1)

Name of base	Found in
Calcium hydroxide	Lime water
Magnesium hydroxide	Window cleaner
Potassium hydroxide	Soap
Ammonium hydroxide	Milk of magnesia

(2)

Name of base	Found in
Calcium hydroxide	Lime water
Magnesium hydroxide	Milk of magnesia
Potassium hydroxide	Window cleaner
Ammonium hydroxide	Soap

(3)

Name of base	Found in
Magnesium hydroxide	Milk of magnesia
Sodium hydroxide	Soap
Ammonium hydroxide	Window cleaner
Calcium hydroxide	Lime water

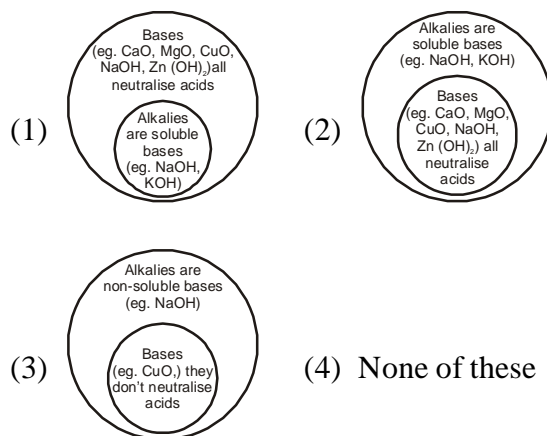
(4) None of these

47. Fats + X → Y + Z

Identify X, Y and Z in the above mentioned reaction:

- (1) X - NaOH Y - soap Z - glycerol
 (2) X - Na₂H Y - water Z - glycerol
 (3) X - NaOH Y - Soap Z - rubber
 (4) None of these

48. Which of the following Venn diagrams show the correct relationship between bases and alkalis?



49. Match the following:

- (i) Land breeze blows during (p) Summer
 (ii) Sea breeze blows during (q) Winter
 (ii) Dark-coloured clothes are preferred during (r) Day
 (iv) Light coloured clothes are preferred during (s) Night
- (1) (i) - (r), (ii) - (q), (iii) - (s) (iv) - (p)
 (2) (i) - (p), (ii) - (q), (iii) - (r) (iv) - (s)
 (3) (i) - (r), (ii) - (s), (iii) - (q) (iv) - (p)
 (4) None of these

50. Pyloric valve is present in the _____.

- (1) Heart
 (2) Liver
 (3) Stomach
 (4) None of these



END OF THE EXAM