

Brilliant Public School , Sitamarhi



Class -VII

Science

Sitamarhi Talent Search

Session : 2012-13

Rajopatti,Dumra Road,Sitamarhi(Bihar),Pin-843301

Ph.06226-252314,Mobile:9431636758

Brilliant Public School, Sitamarhi Talent Search - 2013

Class: VII Science

Full Marks: 90

Time: 2.00 hrs

1. Name the gas which is used by white blood cells to kill the invading bacteria.
(a) Oxygen (b) Carbon dioxide (c) Nitrogen (d) Chlorine
2. What is the percentage of oxygen in the inhaled air?
(a) 21% (b) 16.4% (c) 18% (d) 20%
3. What is the percentage of CO₂ in the exhaled air?
(a) 23% (b) 4.4% (c) 6% (d) 0.04%
4. Normal range of breathing rate per minute in an adult person at rest is
(a) 9 - 12, (b) 15 - 18, (c) 21 - 24, (d) 30 - 33
5. Muscle cramps occurs due to accumulation of
(a) Lactic acid (b) Acetic acid (c) Alcohol (d) Malice acid
6. During exhalation the ribs
(a) move down and inwards (b) move upwards (c) move outwards (d) do not move at all
7. In cockroach, air enters the body through
(a) Lungs (b) Gills (c) Spiracles (d) Skin
8. The air tubes in insects are called
(a) Bronchus (b) Tracheae (c) Nostrils (d) blowholes
9. Name the muscular sheet which separates the abdomen from the chest cavity.
(a) Diaphragm (b) Ribs (c) Spiracles (d) Tracheae
10. Birds breathe through
(a) Lungs (b) Kidney (c) Spiracles (d) Skin
11. Which of the following organism can do anaerobic respiration?
(a) Yeast (b) Leech (c) Amoeba, (d) Fish
12. The food material used to release energy in body cells, which is considered as a biological fuel is
(a) Glucose (b) Vitamin (c) Water (d) Minerals
13. Snake breathe through
(a) Lungs (b) Spiracles (c) Tracheae (d) Skin

Brilliant Public School, Sitamarhi Talent Search - 2013

14. During anaerobic respiration the end product other than CO₂ and energy is
- (a) O₂ (b) Alcohol (c) Nitrogen (d) Water
15. Name the chemical used to test the presence of CO₂ in exhaled air.
- (a) Lime juice (b) Lime water (c) Lime stone (d) Quick lime
16. Name the tiny pores present in the leaves of the plants for exchange of gases
- (a) Stomata (b) Tracheae (c) Chloroplast (d) Spiracles
17. Yeast respire anaerobically to produce
- (a) Water (b) Alcohol (c) Glucose (d) Lactic acid
18. The number of times a person breathes in a _____ is termed as breathing rate
- (a) Second (b) Minute (c) Hour (d) Day
19. Chest cavity is surrounded by
- (a) 12 pair of ribs (b) 10 pair of ribs (c) 11 pair of ribs (d) 25 ribs.
20. Wind pipe is called
- (a) Oesophagus (b) Tracheae (c) Bronchus (d) Nasal Cavity
21. Our _____ cells can respire anaerobically.
- (a) nerve (b) muscle (c) germ (d) blood.
22. Respiration releases energy from the _____.
- (a) air (b) water (c) food (d) sunlight.
23. Glucose breaks down into _____.
- (a) ascorbic acid (b) citric acid (c) lactic acid
(d) hydrochloric acid.
24. The accumulation of _____ acid causes muscle cramps.
- (a) hydrochloric acid (b) lactic acid (c) ascorbic acid
(d) citric acid.
25. The process of breakdown of food in the cell is called _____.
- (a) aerobic respiration (b) anaerobic respiration
(c) pulmonary respiration (d) cellular respiration.
26. Breathing rate is defined as number of times a person breathes in a _____.
- (a) second (b) minute (c) hour (d) day.

Brilliant Public School, Sitamarhi Talent Search - 2013

27. When we inhale air, it passes through our nostrils into the _____.

- (a) chest cavity (b) diaphragm (c) nasal cavity (d) cardiac cavity

28. A large muscular sheet which forms the floor of the chest cavity is called

- (a) lungs (b) liver (c) stomach (d) diaphragm

29. Smoking damages

- (a) heart (b) liver (c) lungs (d) spleen

30. A cockroach has small openings on the sides of its body called

- (a) trachea (b) spiracles (c) setae (d) none

31. Though frogs have a pair of lungs they can also breathe through their

- (a) nose (b) heart (c) liver (d) skin

32. Gills help fishes to dissolve _____ in water

- (a) oxygen (b) carbon dioxide (c) hydrogen (d) all

33. Gills are well supplied with _____ for gaseous exchange

- (a) oxygen (b) carbon dioxide (c) hydrogen

(d) blood vessels

34. The root cells also need _____ to generate energy

- (a) water (b) sunlight (c) oxygen (d) chlorophyll

35. In insects, the exchange of gases takes place through

- (a) spiracles (b) antennae (c) trachea (d) skin

36. During inhalation, our lungs _____

- (a) contracts (b) exchanges gases (c) expands

(d) releases energy

37. Respiration in plants takes place through

- (a) root hair (b) chlorophyll (c) stomata (d) buds

38. Earthworms breathe through their

- (a) trachea (b) spiracles (c) setae (d) skin

39. Lizard and snakes have _____ for breathing

- (a) heart (b) lungs (c) skin (d) trachea

40. The percentage of carbon dioxide exhaled is

- (a) 21 % (b) 0.04 % (c) 16.4 % (d) 4.4 %

41. Human lungs are covered by two thin membranes called

- (a) pleura (b) diaphragm (c) thoracic membrane

(d) cartilaginous membrane

42. In the process of inhalation and exhalation about _____ of air

is breathed in and out

- (a) 300 ml (b) 500 ml (c) 800 ml (d) 700 ml

Brilliant Public School, Sitamarhi Talent Search - 2013

43. The total area for gas exchange provided by our 300 million alveoli in two lungs is
(a) 63 to 27meters (b) 36 to 72 meters (c) 42 to 74 meters
(d) 27 to 47 meters
44. Mussels respire through their
(a) skin (b) gills (c) lungs (d) trachea
- 45 The voice box is called
(a) epiglottis (b) glottis (c) larynx (d) vocal cords
46. Radiation
(a) does not require any medium
(b) is the process of transfer of heat in liquids
(c) is the process of transfer of heat in which heat travels in one direction.
(d) Occurs in solids.
47. A Thermos flask prevents loss or gain of heat by
a. conduction only
b. convection only
c. radiation only
d. all the above
48. Handles of cooking utensils should be made of material that
a. conducts heat well
b. does not conduct heat
c. radiate heat well
d. does not radiate heat
49. Sea breeze and land breeze
a. are caused by currents set up in air due to conduction
b. are caused by currents set up in air due to convection
c. are caused by currents set up in air due to radiation
d. have no relation to conduction, convection and radiation
50. Which of the following is the best heat insulator
a. air
b. steel
c. copper
d. iron
51. Heat from the sun reaches us by the process of
a. conduction
b. convection
c. radiation
d. all the above
52. In liquids heat is transferred
a. only by convection
b. only by radiation
c. mainly by conduction and convection
d. none of these

Brilliant Public School, Sitamarhi Talent Search - 2013

53. Stainless steel pans are provided with copper bottom because
- copper is easier to clean than stainless steel
 - such pans are colourful
 - copper bottom makes the pan more durable
 - copper is better conductor of heat than stainless steel
54. A polished silvery surface is
- good absorber of heat
 - good reflector of heat
 - poor reflector of heat
 - None of these
55. Land breeze blows in coastal regions during
- day
 - summer
 - winter
 - night
56. A wooden spoon is dipped in a cup of icecream. Its other end
- does not become cold
 - becomes cold by the process of radiation
 - becomes cold by the process of convection
 - becomes cold by the process of conduction
57. Dark coloured clothes are preferred during
- summer (b) sand storm
 - winter (d) none of these
58. A black body with rough surface is a
- good reflector and poor absorber of heat
 - good absorber and good radiator of heat
 - good absorber and poor radiator of heat
 - good reflector and poor radiator of heat
59. Range of laboratory thermometer is generally from
- -10°F to 110°F
 - 10°C to 110°C
 - 10°C to -110°C
 - -10°C to 110°C
60. Normal temperature of human body is : 2 :
- (a) 37°F (b) 37°C (c) 39°C (d) 39°F
61. Which of the following is a good conductor of heat
- (a) Wool (b) Water (c) Wood (d) Silver
62. Device used for measuring temperature
- (a) Barometer (b) Odometer (c) Thermometer (d) Speedometer
63. Transmission of heat energy with actual movement of particles
- (a) Conduction (b) Convection (c) Radiation (d) None of these.

Brilliant Public School, Sitamarhi Talent Search - 2013

64. When two bodies are kept in contact heat flows from
- a body at higher temperature to the body at lower temperature
 - a body at lower temperature to the body at higher temperature
 - no flow of heat
 - all of the above
65. A cold steel spoon dipped in a cup of hot milk. It transfers heat to the other end by the process of
- radiation
 - convection
 - conduction
 - none of these
66. The word acid comes from the Latin word 'acere' which means
- Sweet
 - Salty
 - Neutral
 - Sour
67. Substances which are bitter in taste, feel soapy on touching are known as
- Acids
 - Bases
 - Indicators
 - Neutral solution
68. Special type of substances used to test whether a substance is acidic/basic are known as
- Indicators
 - Acids
 - Bases
 - Salt
69. Some naturally occurring indicators are
- Turmeric
 - Litmus
 - China rose
 - All the above
70. The most commonly used natural indicator 'Litmus' is extracted from
- Lichens
 - Turmeric
 - Indicators
 - China rose
71. Litmus is available in the form of
- Litmus paper
 - Lichens
 - Indicator
 - China rose
72. Neutral solutions which do not change the colour of either red/blue litmus are known as
- Neutral solutions
 - Acid solutions
 - Basic solutions
 - Neither acidic nor basic
73. Acetic acid is found in
- Curd
 - Spinach
 - Citrus fruits
 - Vinegar

Brilliant Public School, Sitamarhi Talent Search - 2013

74. Formic acid is found in
(a). Curd
(b). Spinach
©. Ant's sting
(d) Ascorbic acid
75. Citric acid is found in
(a). Curd
(b). Citrus fruits
©. Ascorbic acid
(d). Lime water
76. Lactic acid is found in
(a). Curd
(b).Citrus fruits
©.Gooseberry
(d) Lime
77. Oxalic acid is found in
(a). Spinach
(b). Curd
©. Oranges
(d).Unripe mangoes
78. Ascorbic acid is found in
(a). Amla & Citrus fruits
(b) Curd
©. Oranges & lemon
(d).Unripe mangoes
79. Tartaric acid is found in
(a). Tamarind
(b) Grapes
© unripe mangoes
(d) All of the above
80. Calcium hydroxide is found in
(a) Calcium carbonate
(b) Calcium chloride
(c) Calcium
(d) Lime water
81. Ammonium hydroxide is found
(a).Window cleaner
(b).Detergents
©. Soap
(d). Milk of magnesia
82. Sodium hydroxide is found in
(a) Soap
(b) Window cleaner
(c) Calcium hydroxide
(d) Sodium

Brilliant Public School, Sitamarhi Talent Search - 2013

83. Potassium hydroxide is found in
(a). Soap
(b). Window cleaner
© Potassium
Potassium chlorate
84. Magnesium hydroxide is found in
(a). Milk of magnesia
(b). Magnesium chloride
©. Magnesium ribbon
(d) Magnesium hydroxide
- 85). Who is the 18 year old Harijan youth in Mulk Raj Anand's 'Untouchable'
a. Arnold b. Bakha c. Swami
- 86). Name the hero of John Bunyan's 'Pilgrims Progress'
a. God b. Satan c. Christian
- 87). Identify the young boy who became well known because of an old lamp he held?
a. Pinocchio b. Hansel c. Aladdin
- 88). Name the wooden boy whose nose grew when he lied?
a. Pinocchio b. Hansel c. Aladdin
89. Find out the character who was a giant in one city and a dwarf in another?
a. Frankenstein b. Gulliver c. Sherlock Holmes
90. Identify the writer who created the famous character Mowgli?
a. Rudyard Kipling b. Robert Grave c. R. L. Stevenson

Brilliant Public School, Sitamarhi Talent Search - 2013

Answer key:

- | | |
|--------|-------|
| (1) a | 43. b |
| (2) a | 44. b |
| (3) b | 45. c |
| (4) b | 46. a |
| (5) a | 47. d |
| (6) a | 48. b |
| (7) c | 49. b |
| (8) b | 50. a |
| (9) a | 51. c |
| (10) a | 52. a |
| (11) a | 53. d |
| (12) a | 54. b |
| (13) a | 55. d |
| (14) b | 56. a |
| (15) b | 57. c |
| (16) a | 58. b |
| (17) b | 59. d |
| (18) b | 60. b |
| (19) a | 61. d |
| (20) b | 62. c |
| 21. a | 63. b |
| 22. c | 64. a |
| 23. c | 65. c |
| 24. b | 66. d |
| 25. d | 67. b |
| 26. b | 68. a |
| 27. c | 69. d |
| 28. d | 70. a |
| 29. c | 71. a |
| 30. b | 72. a |
| 31. d | 73. d |
| 32. a | 74. c |
| 33. d | 75. b |
| 34. c | 76. a |
| 35. c | 77. a |
| 36. c | 78. a |
| 37. c | 79. d |
| 38. d | 80. d |
| 39. b | 81. a |
| 40. d | 82. a |
| 41. a | 83. a |
| 42. b | 84. a |
| 85. b | |
| 86. c | |
| 87. c | |
| 88. a | |
| 89. b | |
| 90. a | |

Brilliant Public School, Sitamarhi Talent Search - 2013