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1. Which of the following processes is the fusion of male and female gametes?

(A) Fertilization
(B) Gestation
(C) Menstruation
(D) Parturition

2. Which of the following reproductive processes occurs in human beings approximately every 28 days?

(A) Fertilization
(B) Menstruation
(C) Parturition
(D) Gestation

3. Which of the following is the correct order, from front to back, of teeth in the mouth of the human being?

I. Canines
II. Incisors
III. Molars
IV. Premolars

(A) I, II, III, IV
(B) I, IV, II, III
(C) II, I, IV, III
(D) II, IV, I, III

4. Iodine in potassium iodide solution, a watch glass and medicine dropper were used to carry out a food test. The food group being tested for was

(A) fat
(B) protein
(C) starch
(D) sugar

5. Which of the following blood groups has no antigen and, as a result, can be used in transfusion to any person?

(A) A
(B) B
(C) AB
(D) O

6. In which of the following processes is glucose converted into carbon dioxide, water and energy ONLY?

(A) Digestion
(B) Aerobic respiration
(C) Fermentation
(D) Excretion

7. Many thermostats rely on the principle that, on heating,

(A) all metals curve equally
(B) some metals curve more than others
(C) all metals expand equally
(D) some metals expand more than others

8. Which of the following does NOT contain sense receptors?

(A) Eye
(B) Ear
(C) Tongue
(D) Hair

9. If a tin of sardines has been left open for several hours on a table, it is BEST to

(A) heat the sardines before use
(B) add vinegar to the sardines before use
(C) cool the sardines in a refrigerator before use
(D) discard the tin of sardines

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10. Which of the following processes is NOT used to purify water?

(A) Freezing
(B) Filtration
(C) Chlorination
(D) Distillation

11. Which of the following is NOT advisable as a treatment for an area of skin which has been burnt?

(A) Plunging the area into cool water
(B) Applying a moistened sterile cloth to the area
(C) Removing any burnt skin and then applying an antiseptic cream
(D) Covering the area with a clean cloth

12. Which of the following is a unit of electrical resistance?

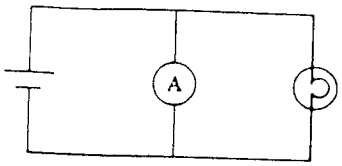
(A) Ampere
(B) Ohm
(C) Volt
(D) Watt

13. In hot climates, loose-fitting clothes are MOST suitable because they

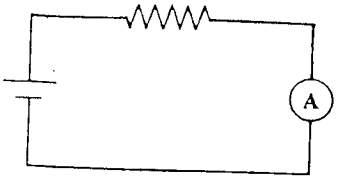
(A) allow freer circulation of air
(B) assist heat loss by radiation
(C) assist heat loss by conduction
(D) reflect much of the heat from the sun

14. Which of the following diagrams illustrates a circuit containing a lamp, ammeter and battery connected in series?

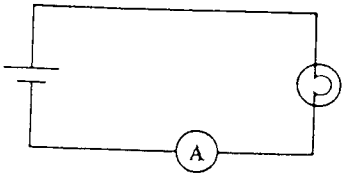
(A)



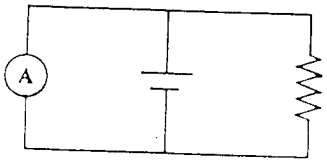
(B)



(C)



(D)



15. Energy is released when green plants use glucose during respiration.

The combustion of petroleum also releases energy.

Where does the energy from these two processes originate?

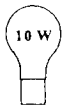
(A) Atmosphere
(B) Earth's crust
(C) Moon
(D) Sun

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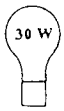
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16. Which of the bulbs below will give the brightest light when operated at the same voltage?

(A) 

(B) 

(C) 

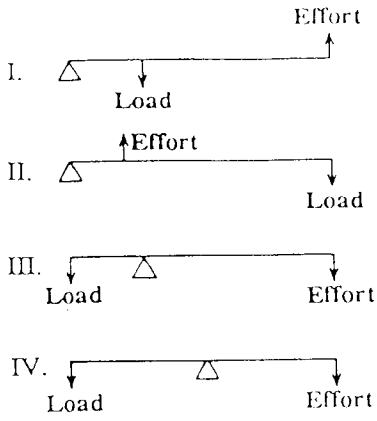
(D) 

17. Which of the following result from poor ventilation?

I. Lack of oxygen
II. Cool surroundings
III. Rapid growth of bacteria
IV. Unpleasant odours

(A) I and II only
(B) III and IV only
(C) I, III and IV only
(D) I, II, III and IV

18. Which TWO of the following diagrams represent class I levers?



(A) I and II
(B) II and III
(C) III and IV
(D) I and IV

19. Which of the following toxic gases functions by binding to the haemoglobin in the red blood cells?

(A) Chlorine
(B) Sulphur dioxide
(C) Carbon monoxide
(D) Ammonia

20. Athlete's foot (a fungus infection) can be difficult to cure if

(A) the shoes worn are too big
(B) the individual has corns
(C) the feet are always sweaty and dirty
(D) high-heeled shoes are often worn

21. The majority of fish propel themselves forward through water by

(A) forcing water through their gills
(B) moving their side fins
(C) regulating their swim-bladders
(D) using their tails

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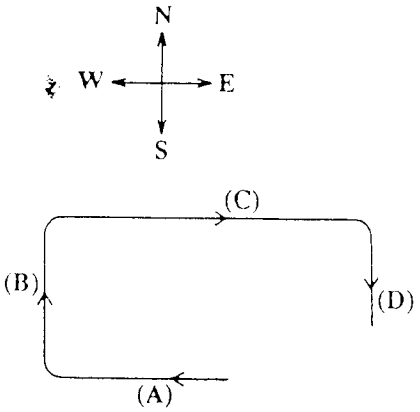
22. Which is the MINIMUM recommended time lapse between the eating of a full meal and the undertaking of vigorous activity?

(A) 15 minutes
(B) 30 minutes
(C) 1 to 2 hours
(D) 3 to 4 hours

23. A colour wheel consists of THREE colours, red, blue and green, EACH occupying an equal area. If the wheel is spun at a very high speed, the colour seen would be

(A) cyan
(B) magenta
(C) yellow
(D) white

24. The diagram below shows an athletic track with parts labelled (A), (B), (C), (D).



A race was held along the track above. The wind was blowing in the direction of E.

Along which part of the track will the athletes move MOST slowly?

25. Mary did an experiment. She took the SAME ball, dropped it onto DIFFERENT surfaces, and measured the height it returned to after hitting EACH surface.

What property of the surface was she testing?

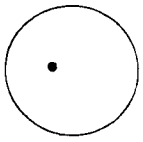
(A) Friction
(B) Elasticity
(C) Strength
(D) Bounce

26. The centre of gravity of an object is the

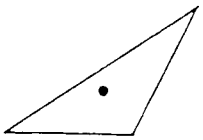
(A) point at which gravity acts on the object
(B) centre of the object
(C) point at which the object can be balanced
(D) point at which the mass of the object is heaviest

27. Which of the following laminae (thin uniform plates) has its centre of gravity CORRECTLY indicated by the dot?

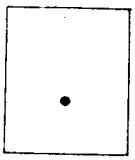
(A)



(B)



(C)



(D)



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28. The force of gravity experienced by astronauts in a space ship in circular orbit around the Earth

(A) is greater than on the Earth
(B) is less than on the Earth
(C) is the same as on the Earth
(D) fluctuates

29. Which of the following shows the arrangement of planets in relation to the sun, from the nearest to farthest?

(A) Mars, Mercury, Venus, Earth
(B) Mars, Earth, Venus, Mercury
(C) Mercury, Mars, Venus, Earth
(D) Mercury, Venus, Earth, Mars

30. During an earthquake, the sea withdrew for several kilometres along the coast and returned as immense waves. What kind of waves were these?

(A) Ground
(B) Long
(C) Seismic
(D) Tidal

31. Which of the following structures is responsible for the transfer of hereditary characteristics?

(A) Gene
(B) Golgi body
(C) Nuclear membrane
(D) Nucleolus

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32. Which of the following word equations BEST represents the process of photosynthesis?

(A) Carbon dioxide + Water $\xrightarrow{\text{Energy}}$ Sucrose + Oxygen

(B) Oxygen + Glucose $\longrightarrow$ Carbon dioxide + Water + Energy

(C) Alcohol + Oxygen $\longrightarrow$ Carbon dioxide + Water + Energy

(D) Carbon dioxide + Water $\xrightarrow{\text{Energy}}$ Glucose + Oxygen

33. Which of the following processes is associated with the passage of digested food into the bloodstream?

(A) Egestion
(B) Absorption
(C) Excretion
(D) Ingestion

34. Which of the following does NOT assist the plant in moving water from the roots to the leaves?

(A) Capillarity
(B) Root pressure
(C) Translocation
(D) Transpiration

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35. Which of the following processes eliminates the waste products of cell metabolism?

(A) Egestion
(B) Excretion
(C) Nutrition
(D) Osmoregulation

36. The heart is protected from damage by the

(A) cranium
(B) diaphragm
(C) rib cage
(D) thoracic vertebrae

37. In the Caribbean, the energy used in the production of electricity is derived MAINLY from

(A) fossil fuels
(B) solar panels
(C) water falls
(D) wind turbines

38. Which of the following substances is the BEST conductor of electricity?

(A) Copper
(B) Graphite
(C) Iron
(D) Aluminium

39. Which of the following would NOT protect an iron gate from rusting?

(A) Galvanizing
(B) Painting
(C) Washing
(D) Oiling

40. Windows made from iron will rust quickly by the seaside. This is because the air by the seaside has a high percentage of

(A) carbon dioxide
(B) iodine vapour
(C) oxygen
(D) sodium chloride

41. Which of the following chemicals is commonly called milk of magnesia?

(A) Caustic soda
(B) Magnesium hydroxide
(C) Magnesium chloride
(D) Washing soda

42. Which of the following household substances is/are acidic?

I. Baking soda
II. Antacid tablets
III. Vinegar

(A) III only
(B) I and II only
(C) I and III only
(D) II and III only

43. Which chemical is BEST for removing nail polish?

(A) Acetone
(B) Methylated spirit
(C) Borax
(D) Washing soda

44. Which of the statements listed below would BEST explain the fact that smokers generally have a shorter life-span than non-smokers?

(A) People who smoke are usually addicted to alcohol.
(B) Smokers are susceptible to many lung disorders.
(C) Smoking is addictive.
(D) Smoking causes a decrease in appetite.

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45. Which of following formulae is used to calculate the mechanical advantage of a machine?

(A) Mechanical advantage = $\frac{\text{Load}}{\text{Effort}}$

(B) Mechanical Advantage = $\frac{\text{Effort}}{\text{Load}}$

(C) Mechanical Advantage = Effort – Load

(D) Mechanical Advantage = Effort x Load

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46. Decayed organic matter is called

(A) humus
(B) limestone
(C) sediment
(D) soil

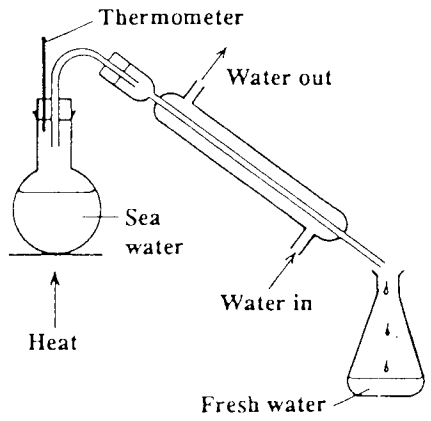
47. Adding common salt to water produces a liquid that is, when compared with water,

(A) greater in pH
(B) greater in density
(C) less in chemical reactivity
(D) less in electrical conductivity

48. A farmer was advised to add white lime to his soil to improve his fruit yield. The soil was MOST likely

(A) acidic
(B) alkaline
(C) loamy
(D) sandy

Item 49 refers to the diagram below.



49. What is MOST likely to be the highest temperature (in °C) registered by the thermometer?

(A) 0
(B) 10
(C) 100
(D) 110

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50. Which of the following should be considered when choosing recreational activity?

I. Age of the individual
II. Climatic conditions
III. Physical health of the individual

(A) I and II only
(B) I and III only
(C) II and III only
(D) I, II and III

51. Which of the following is MOST likely to happen to a sunbather, with unprotected eyes, if he faces the sun for a long time?

(A) Change in colour of the iris
(B) Double vision
(C) Damage to the retina
(D) Drying out of the aqueous humour

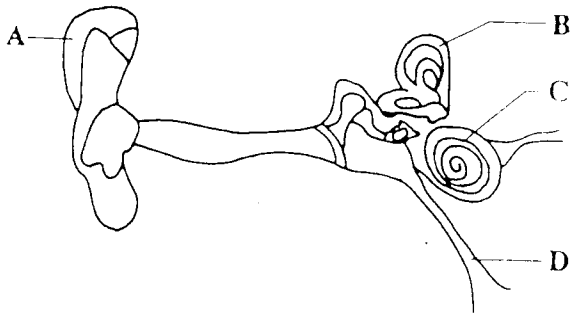
52. Parallel rays of light emerge as parallel rays after hitting a

(A) concave lens
(B) plano-convex lens
(C) concave mirror
(D) plane mirror

53. The increased pressure encountered by divers at large depths below sea-level can affect the

(A) eyes
(B) ears
(C) nose
(D) mouth

Item 54 refers to the diagram of the mammalian ear below. Some parts are labelled A, B, C, D.



54. Which of the labelled parts of the ear is called the cochlea?

55. A ship will float HIGHEST in

(A) cold, fresh water
(B) warm, fresh water
(C) warm, salt water
(D) cold, salt water

56. The load transported by a truck is increased to above the maximum load capacity of the truck. Which of the following is MOST likely to occur?

I. The truck will overturn.
II. The suspension of the truck will be damaged.
III. The stability of the truck will be increased.

(A) I only
(B) III only
(C) I and II only
(D) I, II and III

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57. Which of the following is emitted from a volcano?

(A) Mercury (II) oxide
(B) Hydrogen sulphide
(C) Nitrogen
(D) Oxygen

58. Which of the following is NOT characteristic of a cold front?

(A) Slow fall in pressure
(B) Deep dense clouds
(C) Heavy thunderstorms
(D) Decrease in temperature

---

59. The sequence of energy changes taking place when a battery is used to light a bulb is

(A) chemical → heat → electrical → light
(B) heat → chemical → electrical → light
(C) electrical → heat → chemical → light
(D) chemical → electrical → heat → light

60. In which of the following are curved reflectors NOT used?

(A) Periscopes
(B) Solar cookers
(C) Headlamps
(D) Dish aerials

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.

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