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## General Science Quiz Objective Questions with Answers

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1. Which one of the following constitutes the two best reasons for distinguishing the living from the non living?

- (a) Growth and locomotion
- (b) Irritability and locomotion
- (c) Respiration and excretion
- (d) Reproduction and locomotion

C

2. The largest living bird is

- (a) duck
- (b) dodo
- (c) ostrich
- (d) peacock

C

3. Which of the following are the only mammals that possess nucleated red blood corpuscles?

1. Camel

2. Llama

3. Man

4. Dog

a) 1 and 2

(b) 2 and 3

(c) 3 and 4

(d) 1 and 4

A

4. When compared to the mammals, birds are less sensitive to temporary deprivation of water, because (1.A.S.1990)

(a) urea excretion in mammals entails a greater loss of water than that in birds.

(A) the water requirement per unit weight is less in birds than in mammals.

(c) absorption of water from the gut is more efficient in birds than in mammals.

(d) None of these

B

5. Birds get thrust (forward motion) and lift (upward motion) from

(a) air sacs .

b) flapping of wings

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- (c) twisting of feathers
  - (d) shape of wings which is similar to aeroplane blades
- B

6. The mammal which lays eggs is
- (a) Bat
  - (b) Squirrel
  - (c) Kangaroo
  - (d) Duckbilled Platypus
- D

7. Hormones are normally absent in
- (a) rat
  - (b) monkey
  - (c) bacteria
  - (d) cat
- C

8. The blood sucking organisms are
- (a) Hookworms
  - (b) Earthworms
  - (c) Leeches
  - (d) Pin worms
- C

9. 'The blue coloured blood of this marine creature is used to test safety of drugs. It is found abundantly along Orissa coast'.  
The given description fits
- (a) Scorpion
  - (b) Sepia
  - (c) Cattle fish
  - (d) Horse shoe crab
- D

10. From which stage of silkworm is silk obtained?
- (a) Caterpillar
  - (b) Pupa
  - (c) Cocoon
  - (d) Adult
- C

11. The gestation period of cows is
- (a) 150 days
  - (b) 280 days
  - (c) 300 days
  - (d) 365 days
- B

12. Pick out the wrong pair
- | Animal       | Gestation period |
|--------------|------------------|
| (a) Monkey   | —300 days        |
| (b) Elephant | —600 days        |
| (c) Cow      | — 280 days       |
| (d) Pig      | — 68 days        |
- A

13. Taenia solium (Tape worm) lives as a parasite in
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- (a) pig
  - (b) abdomen of man
  - (c) intestine of man
  - (d) liver of man
- C

14. Which of the following is an egg laying mammal?

- (a) Bat
  - (b) Scaly ant-eater
  - (c) Whale
  - (d) Spiny ant-eater
- D

15. The human immuno deficiency virus (HIV) is a living entity because it can

- (a) move from one cell to another
  - (b) undergo autoreproduction
  - (c) disturb host cell respiration
  - (d) excrete in human sperm
- B

16. Feeding of colostrum is important for young calves because

- (a) it is tasty.
  - (b) it contains iron.
  - (c) it contains antibodies.
  - (d) it supplies growth proteins.
- C

17. Which of the following statements regarding bats is/are true?

- 1 Bats are mammals.
  - 2 They are nocturnal in habit.
  - 3. They have wings which are actually the modified forelimbs.
- (a) 1 and 2
  - (b) 2 and 3
  - (c) 1 and 3
  - (d) 1, 2 and 3
- D

18. Which of the following animals is called a living fossil?

- (a) Polystomella
  - (b) Peripatus
  - (c) Sea cucumber
  - (d) Sacculina
- B

19. Which of the following characteristics of virus best denote its unique nature?

- 1. It can attack bacteria.
  - 2. It can be crystallised.
  - 3. It can replicate.
  - 4. It can invade human body.
- (a) 2 and 3
  - (b) 3 and 4

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- (c) 1,3 and 4
  - (d) 1,2 and 4
- D

20. If the cerebellum of a pigeon were destroyed, the bird would not be able to

- (a) fly
- (b) breathe
- (c) digest food
- (d) oxidised food

A

21. Mule is the hybrid of

- (a) male horse and mare
- (b) female horse and female donkey
- (c) male horse and female zebra
- (d) female horse and male zebra

B

22. Which of the following represents the correct sequence in the life cycle of a tape worm?

- (a) Pig - proglottid - man
- (b) Man - onchosphere - bladder worm - pig proglottid
- (c) Proglottid - pig - onchosphere - man - bladder worm
- (d) Proglottid - onchosphere - pig - bladder worm - man

D

23. The characteristic feature of virus is that

- (a) it lacks chlorophyll.
- (b) it multiplies only on dead animals.
- (c) it is made of fats.
- (d) it multiplies only on hosts

D

24. Which of the following has no blood, but respire?

- (a) Fish
- (b) Earthworm
- (c) Hydra
- (d) Cockroach

C

25. The organism living at the bottom of the water mass is called

- (a) Nekton
- (b) Neuston
- (c) Benthos
- (d) Plankton

C

26. Which of the following pairs is not correctly matched?

- (a) Annelida - Leech
- (b) Mammalia - Bat
- (c) Insecta - Prawn
- (d) Amphibia - Toad

C

27. Which of the following have the highest upper limit of audible range?

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- (a) Human beings
  - (b) Dogs
  - (c) Whales
  - (d) Bats
- D

28. Which of the following birds has webbed feet?

- (a) Flea
  - (b) Duck
  - (c) Peacock
  - (d) Pigeon
- B

29. Most fish do not sink in water because of the presence of

- 1. swim bladder
  - 2. air bladder
  - 3. air sacs
  - 4. air in spongy bones
- (a) 1 and 2
  - (b) 2 and 3
  - (c) 3 and 4
  - (4) 1,2,3and4
- A

30. If the fins of a fish are damaged, which of the following activities would suffer?

- (a) Locomotion and excretion
  - (b) Locomotion and respiration
  - (c) Speed and changing direction
  - (4) Speed and respiration
- C

31. The unicellular algae which is used in space programme to regulate the supply of oxygen is

- (a) Chlamydomonas
  - (b) Codillm
  - (c) Chorella
  - (d) Spirogyra
- C

32. Which of the following enzymes secreted by pancreas helps predatory mammals to digest blood they drink from their prey?

- (a) Pepsin
  - (b) Fibrin
  - (c) Trypsin
  - (d) Ptyalin
- C

33. Mycorrhiza is a symbiotic association between

- (a) algae and roots of orchids
  - (b) protozoa and roots of higher plants
  - (c) bacteria and roots of higher plants
  - (d) fungi and roots of higher plants
- D

34. Which of the following is a short tailed rodent used in scientific experiment?

- (a) Rat

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- b) Rabbit
  - (c) Guinea pig
  - (d) Squirrel
- C

35. The insect not useful to man is

- (a) lac insect
  - (b) rice weevil
  - (c) silkworm
  - (d) honey bee
- B

36. Which of the following is not a rabid animal?

- (a) Dog
  - (b) Cat
  - (c) Deer
  - (d) Fox
- C

37. Snake bite first affects the

- (a) nervous system
  - (b) lungs
  - (c) blood circulation
  - (d) brain
- C

38. Which of the following is not a breed of dog?

- (a) Rottweiler
  - (b) Plymouth rock
  - (c) Buff Mastiff
  - (d) Springer Spaniel
- B

39. What is a sponge?

- (a) A plant
  - (b) An animal
  - (c) A fungus
  - (d) A fossil
- C

40. Which of the following is a hermaphrodite (bisexual)?

- (a) Mosquito
  - (b) Hookworm
  - (c) Bed bug
  - (d) Earthworm
- D

41. The greatest value of bees to mankind is in

- (a) storing honey for man's use
  - (b) supplying of food for birds
  - (c) ensuring pollination of certain crop plants
  - (4) furnishing bees wax needed in certain specialised industries
- C

42. Which of the following animals has the longest life span?

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- (a) Elephant
  - (b) Crocodile
  - (c) Dog
  - (d) Tortoise
- D

43. One of the characters that distinguishes a frog from a toad is

- (a) external ear
- (b) tail
- (c) warty skin
- (d) tongue

C

44 Which of the following is true?

- (a) All bacteria respire.
- (b) All bacteria are anaerobic.
- (c) All bacteria are photosynthetic
- (4) All bacteria are non -photosynthetic.

A

45. The only snake that builds a nest is

- (a) Krait
- (b) King cobra
- (c) Chain viper
- (d) Saw -scaled viper

B

46. Why do migratory birds go back to their earlier habitat in spring? Because of

- (a) weather becoming too hot in the regions
- (b) scarcity of food in the regions to which they have migrated
- (c) breeding instinct with change in climate and they breed only in their original habitat
- (d) hunting season commencing in spring

C

47. Which of the following are fed to cattle?

1. Sugarcane tops
2. Sugarcane leaves
3. Sugarcane baggasse
48. Sugarcane jaggery

- (a) 1 and 3
- (b) 2 and 3
- (c) 1, 2 and 3
- (4) 1, 2, 3 and 4

D

48. Animal semen for breeding of animals remains fertile for a long time at

- (a) 37°C
- (b) 4°C
- (c) -4°C
- (d) -196°C

D

49. A reptile with a four chambered heart is

- (a) Crocodile

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- (b) Turtle
  - (c) Snake
  - (d) Lizard
- A

50. Which of the following is the lightest metal ?

- (A) Mercury
- (B) Silver
- (C) Lithium
- (D) Lead

C

## Test 2

1. The type of glass used in making lenses and prisms is?

- (a) soft glass
- (b) pyrex glass
- (c) jena glass
- (d) flint glass

2. Wood is the main raw material for the manufacture of ?

- (a) paint
- (b) paper
- (c) ink
- (d) gun powder

3. How does common salt help in separating soap from the solution after saponification?

- (a) By decreasing solubility of soap
- (b) By increasing solubility of soap
- (c) By decreasing density of soap
- (d) By increasing density of soap

4. Which of the following is commonly called a 'polyamide'?

- (a) Rayon
- (b) orlon
- (c) Terylene
- (d) Nylon

5. The major ingredient of leather is ?

- (a) carbohydrate
- (b) collagen
- (c) polymer
- (d) nucleic acid

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6. In the manufacture of safety matches, which of the following materials are used to coat the two sides of match boxes?

1. Yellow phosphorus
  2. Glue
  3. Glass powder
  4. Red phosphorus
- (a) 1, 2 and 3  
(b) 1,3 and 4  
(c) 1,2 and 4  
(d) 2,3and4

7. Glass is made of the mixture of ?

- (a) quartz and mica  
(b) sand and salt  
(c) sand and silicates  
(d) None of these

8. Epoxy resins are used as

- (a) moth repellants  
(b) insecticides  
(c) detergents  
(d) adhesives

9. What is condensation?

- (a) Change of gas into solid  
(b) Change of solid into liquid  
(c) Change of vapour into liquid  
(d) Change of heat energy into cooling energy

10. Which of the following are true regarding a catalyst?

1. It is a substance which increases the rate of reaction.
  2. It is a substance which reduces the activation energy.
  3. It is a substance which increases the activation energy.
  4. It is a substance which is consumed in the reaction.
- (a) 1 and 2  
(b) 2 and 3  
(c) 3 and 4  
(d) 1 and 4

11. Which of the following is a physical change?

- (a) Oxidation  
(b) Reduction  
(c) Sublimation  
(d) Decomposition

12. A substance which changes readily into vapour without heating is called ?

- (a) efflorescent

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- (b) synthetic
- (c) volatile
- (d) effervescent

13. Catalytic properties of a substance may be best defined as a phenomenon of ?

- (a) Absorption
- (b) Chemisorption
- (c) Adsorption
- (d) None of these

14. In which of the following processes light energy is converted into chemical energy?

- (a) Respiration
- (b) Fermentation
- (c) Photosynthesis
- (d) Photorespiration

15. Photosynthesis is?

- (a) an exothermic process
- (b) an endothermic process
- (c) a neutral process
- (d) a thermostatic process

16. Combustion is the process in which ?

- (a) heat is produced.
- (b) light is produced.
- (c) heat and light are produced.
- (d) None of these

17. The chemical used as a 'fixer' in photography is

- (a) borax
- (b) sodium thiosulphate
- (c) sodium sulphate
- (d) ammonium persulphate

18. The rate of chemical reaction does not depend upon ?

- (a) Concentration
- (b) Catalyst
- (c) Temperature
- (d) Pressure

19. Which of the following is a chemical change?

- (a) Magnetisation of iron
- (b) Melting of ice
- (c) Burning of sulphur
- (d) Melting of wax

20. Which of the following substances undergoes chemical change on heating?

- (a) Sodium chloride

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- (b) Silica
- (c) Lead nitrate
- (d) Platinum wire

21. Water is neither acidic nor alkaline because

- (a) it cannot accept or donate protons.
- (b) it boils at a high temperature.
- (c) it can dissociate into equal number of hydrogen ions.
- (d) it cannot donate or accept electrons.

22. Chemical change does not take place in case of?

- (a) souring of milk into curd
- (b) rusting of iron in atmosphere
- (c) burning of magnesium ribbon in air
- (d) emitting of light by a red hot platinum wire

23. Vulcanization is a ?

- (a) science of studying volcanoes
- (b) method to degrade polymers
- (c) process connected with the making of voltaic cells
- (d) process of hardening of rubber by heating it with sulphur

24. Which of the following causes the rusting of iron?

- 1. Oxidation
- 2. Reduction
- 3. Chemical reaction with oxygen
- 4. Chemical reaction with CO

- (a) 1 and 2
- (b) 2 and 3
- (c) 3 and 4
- (d) 1 and 3

25. Which of the following statements is/are true?

- 1. The process of oxidation leads to a gain of electrons.
- 2. The process of oxidation leads to a loss of electrons.
- 3. The process of reduction leads to a gain of electrons.
- 4. The process of reduction leads to a loss of electrons.

- (a) 1 only
- (b) 1 and 4
- (c) 2 and 3
- (d) 4 only

26. Light year is a unit of measurement of

- (a) speed of light
- (b) stellar distances
- (c) speed of rockets
- (d) speed of aero planes

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27. One micron is equal to

- (a) 1/10th of nm
- (b) 1/100th of nm
- (c) 1/1000th of nm
- (d) 1/10000th of nm

28. Hydrometer is an instrument

- (a) for measuring sound under water
- (b) to detect the presence of hydrogen in the atmosphere
- (c) for measuring the specific gravity of liquids
- (d) to detect the changes in atmospheric humidity

29. 'Bar' is the unit of ?

- (a) heat
- (b) temperature
- (c) current
- (d) atmospheric pressure

30. A chronometer measures

- (a) sound waves
- (b) time
- (c) water waves
- (d) colour contrast

31. One fathom is equal to?

- (a) 6 meters
- (b) 6 feet
- (c) 60 feet
- (d) 100 cms

32. What is the unit for measuring the pitch or frequency of sound?

- (a) Coulomb
- (b) Hum
- (c) Cycles
- (d) Hertz

33. Electric current is measured by

- (a) anemometer
- (b) voltmeter
- (c) ammeter
- (d) commutator

34. Fathom is the unit of ?

- (a) sound
- (b) depth
- (c) distance
- (d) frequency

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35. Kilohertz is a unit which measures  
(a) electric resistance  
(b) power used by a current of one ampere  
(c) electromagnetic radio wave frequencies  
(d) None of these

36. If you swim one km, how many miles do you swim?  
(a) 0.5  
(b) 0.62  
(c) 0.84  
(d) 1.6

37. Kilowatt is a unit to measure  
(a) work  
(b) electricity  
(c) power  
(d) current

38. Very small time intervals are accurately measured by the  
(a) Pulsars  
(b) Quartz clocks  
(c) Atomic clocks  
(d) White dwarfs

39. Decibel is the unit used for  
(a) speed of light  
(b) intensity of heat  
(c) intensity of sound  
(d) radio wave frequency

40. Which of the following is correct regarding the barometer commonly used in homes to see weather indication?

1. It is called Furlin's barometer and uses mercury.
  2. It is called Furlin's barometer and uses alcohol.
  3. It is called aneroid barometer and uses mercury.
- (a) 1  
(b) 2  
(c) 3  
(d) None

Answers:

- 1d
- 2b
- 3a
- 4d
- 5b
- 6c
- 7c

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8d  
9c  
10a  
11c  
12c  
13c  
14c  
15b  
16c  
17b  
18d  
19c  
20c  
21c  
22d  
23d  
24c  
25c  
26b  
27c  
28c  
29d  
30b  
31b  
32d  
33c  
34b  
35c  
36b  
37c  
38c  
39c  
40d

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## Test 3

1. In fog, we are not able to see objects at a distance, although fog contains fine drops of water suspended in air and water is transparent. This is because
  - (A) the light rays suffer total internal reflection
  - (B) most of the light is absorbed by the fog
  - (C) most of the light is scattered
  - (D) fog affects our vision adversely
2. Which of the following statements regarding the consequences of the movement of the earth is not correct?
  - (A) The rotation of the earth causes variation in the duration of day and night
  - (B) The revolution of the earth around the sun is the cause of the change of seasons
  - (C) The rotation of the earth is the cause of day and night
  - (D) The rotation of the earth affects the movement of wind and ocean currents
3. If a ship has to travel the shortest route, it must follow?
  - (A) Latitudes
  - (B) Streams
  - (C) Along a great circle
  - (D) Longitudes
4. The auto shut off in electric equipment works on the principle of the
  - (A) thermal effect
  - (B) optical effect
  - (C) diode
  - (D) Both (A) and (B)
5. For which of the following can 'mode' be used?
  - (A) The size of clothes
  - (B) The size of shoes
  - (C) Most frequently seen cable channels
  - (D) All of the above

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6. Diesel engines are heavier than petrol engines because?  
(A) diesel is heavier  
(B) diesel generates more power  
(C) diesel is used in heavy vehicles  
(D) diesel was invented earlier
7. Two unbiased coins are tossed in the air and both of them land with heads down. What are the chances that, on the next toss, at least one will land with head upwards?  
(A) 25%  
(B) 50%  
(C) 75%  
(D) 33%
8. Cell phones work on the principle of?  
(A) sound waves  
(B) magnetic waves  
(C) ultrasonic waves  
(D) electromagnetic waves.
9. If there was no friction, which of the following would become impossible?  
(A) Walking on the road  
(B) Using a toothpick  
(C) Using a pulley  
(D) All of the above
10. For an electron moving in 's' orbital, the total angular momentum is?  
(A) 1/2  
(B) 1  
(C) 2  
(D) 0
11. Which of the following disorder of the eye is treated by the use of cylindrical lenses?  
(A) Myopia  
(B) Hypermetropia  
(C) Cataract  
(D) Astigmatism
12. What quantity of oxygen ( $O_2$ ) contains the same number of molecules as 36 g of water?  
(A) 64.0 g  
(B) 32.0 g  
(C) 16.0 g  
(D) 18 g
13. In honour of which eminent Indian Scientist, is the National Science Day celebrated in India?  
(A) J. C. Bose  
(B) C. V. Raman

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- (C) S. Ramanujan
- (D) H.J.Bhabha

14. Which of the following causes reduction in the ozone layer?

- (A) Rising sea temperature
- (B) Use of specific refrigerants
- (C) Smog in the cities
- (D) Cutting trees

15. The colours corresponding to the shortest and longest wavelength are?

- (A) red and green
- (B) green and red
- (C) red and violet
- (D) violet and red

16. When salt is dissolved in water, the salt solution will have

- (A) a lower boiling point than that of pure water
- (B) a higher boiling point than that of pure water
- (C) no change in the boiling point
- (D) a fluctuating boiling point

17. The 'Origin of Species' written by Charles Darwin appeared first about?

- (A) 100 years ago
- (B) 150 years ago
- (C) 200 years ago
- (D) 250 years ago

18. The difference between tap water and rain water is due to?

- (A) the presence of nitrates in rain water
- (B) the presence of nitrates in tap water
- (C) the presence of impurity in tap water
- (D) the presence of sulphates in rain water

19. Among air, vacuum, water and glass, the speed of light is?

- (A) the same in all mediums
- (B) fastest in air
- (C) fastest in vacuum
- (D) the same in air and vacuum

20. Between a dry, pen size cell and a big torch, of which cell is the voltage more?

- (A) Both are the same
- (B) The torch cell is more
- (C) The pen size cell is more
- (D) None of the above

21. A cassette tape and a CD are both used for sound recording. On what principle do they work?

- (A) Both work on the same principle

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- (B) The cassette works on soft laser and the CD on magnetic field
- (C) The cassette works on magnetic field and the CD on soft laser
- (D) The cassette works on soft magnetic field and the CD on strong magnetic field

22. Capillary action is due to?

- (A) air pressure
- (B) surface tension
- (C) due to both air pressure and surface tension
- (D) the movement of air

23. Decimals can also be represented as?

- (A) integers
- (B) fractions
- (C) natural numbers
- (D) odd numbers

24. Vaccination helps in controlling diseases as it?

- (A) kills the germs which cause disease
- (B) develops resistance to attack
- (C) prevents contact with germs
- (D) activates germs causing the disease

25. The sun's energy is produced as a result of?

- (A) explosion
- (B) fission
- (C) thermonuclear fusion
- (D) combustion

26. The human body adapts to living at high altitudes by producing?

- (A) more white blood cells
- (B) more red blood cells
- (C) fewer white blood cells
- (D) fewer red blood cells

27. The injection of large quantities of distilled water into a person's veins would cause many of the red blood cells to?

- (A) shrink
- (B) form new cells
- (C) swell and burst
- (D) carry more oxygen

28. The dissolved carbon dioxide in rainwater makes it acidic. What happens to the pH of rain water when it falls upon a limestone rock?

- (A) pH rises from 7 to 10
- (B) pH falls from 5 to 3
- (C) pH rises from 5 to 8
- (D) pH remains at 7

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29. Which of the following is likely to consist of one element?  
(A) A silver spoon  
(B) A bronze statue  
(C) A brass plate  
(D) A steel tumbler
30. When water is added to baking powder, the resultant solution formed would be?  
(A) alkaline  
(B) acidic  
(C) neutral  
(D) acidic as well as alkaline
31. A solution conducting electric current confirms that the solution?  
(A) has a variable boiling point  
(B) is a good oxidising agent  
(C) is a good reducing agent  
(D) contains ions
32. if a magnet is divided into two pieces?  
(A) the magnet will loose its magnetic power  
(B) both the pieces will become independent magnets  
(C) one piece will behave like a North pole and the other like. a South pole  
(D) the magnetic power of the magnet will increase
33. The fuel used in nuclear reactors is?  
(A) hydrogen  
(B) liquid nitrogen  
(C) uranium  
(D) carbon isotope
34. Our blood is?  
(A) neutral in nature  
(B) slightly alkaline in nature  
(C) highly alkaline in nature  
(D) slightly acidic in nature
35. Paper is recyclable because?  
(A) paper is coarse  
(B) paper is fine  
(C) paper burns on heating  
(D) None of the above
36. Most of the glucose in the human blood is transported by the?  
(A) red blood cells  
(B) plasma  
(C) platelets  
(D) white blood cells

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37. Nights are cool when?

- (A) the nights are cloudy and the days are dear
- (B) the nights are clear and the days are cloudy
- (C) both the nights and the days are cloudy
- (D) both the nights and the days are dear

38. The first life came on earth?

- (A) in water
- (B) on land
- (C) in air
- (D) on the mountain

39. Which of the following animals was not known to the Indus Valley Civilization?

- (A) Bull
- (B) Horse
- (C) Elephant
- (D) Giraffe

40. Aurora borealis is—

- (A) a medical term for boric powder
- (B) red and green lights in the sky near the North pole by electrical radiation
- (C) a chemical
- (D) a Russian master craftsman

Answers:

- 1 C
- 2 A
- 3 C
- 4 D
- 5 D
- 6 B
- 7 C
- 8 D
- 9 D
- 10 A
- 11 D
- 12 B
- 13 B
- 14 B
- 15 D
- 16 B
- 17 B
- 18 C
- 19 C
- 20 A
- 21 A

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- 22 B
- 23 B
- 24 B
- 25 B
- 26 B
- 27 C
- 28 B
- 29 A
- 30 A
- 31 D
- 32 B
- 33 C
- 34 B
- 35 D
- 36 B
- 37 D
- 38 A
- 39 D
- 40 B

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## Test 4

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1. Consider the following statements—

Assertion (A) : A rocket that is sent to space, has to give an extra force at certain distance from earth.

Reason (R) : At a certain distance from earth, earth is encircled by a ring of vacuum.

Now select the correct answer

(A) (A) and (R) are correct, but (R) is not the correct explanation of (A)

(B) (A) and (R) are correct, and (R) is the correct explanation of (A)

(C) (A) is correct, but (R) is not correct

(D) (A) is not correct, but (R) is correct

2. Fuel cells are used in?

(A) Aircrafts

(B) Electric locomotives

(C) Space crafts

(D) Submarines

3. The plant group which yields 'Taxol' belongs to?

(A) Bryophyte

(B) Gymnosperm

(C) Pteridophyte

(D) Lichen

4. Alga used for hydrocarbon production is—

(A) Gracilaria

(B) Chlorella

(C) Botryococcus

(D) Sargassum

5. Which hormone is responsible for ejection of milk?

(A) Oxytocin

(B) Prolactin

(C) Thyroxine

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(D) Testosterone

6. In human 45 numbers of chromosomes (22AA + XO) is resulted in—

(A) Turner's syndrome

(B) Down syndrome

(C) Klinefelter's syndrome

(D) Edwards' syndrome

7. Which of the following is called as royal disease?

(A) Anemia

(B) Leukemia

(C) Haemophilia

(D) Colour blindness

8. Which one of the following is not a vaccine?

(A) Polio vaccine

(B) BCG

(C) Anti-rabies

(D) Progesterone

9. Mutation was discovered by?

(A) Morgan

(B) Huxley

(C) Mendel

(D) Hugo de Vries

10. The red colour of the blood is due to—

(A) Albumin

(B) Haemoglobin

(C) Vitamin B6

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(D) Relaxin

11. Consider the following statements

Assertion (A) Malarial parasite feeds on the blood of man.

Reason (R) : One of the parasite adaptations is loss of digestive system and hence depends on host for food.

Select Correct answer

(A) Both (A) and (R) are true and (R) is the correct explanation of (A)

(B) Both (A) and (R) are false

(C) (A) is true, but (R) is false

(U) (A) is false, but (R) is true

12. Good plant sources of choline are ?

(A) Yeast

(B) Mushroom

(C) Green leaves

(D) Cereal grains

13. Ornithophily refers to—

(A) Pollination through wind

(B) Pollination through birds

(C) Pollination by insects

(D) Dispersal of seeds by wind

14. Identify the chemolithotrophic bacteria among the following—

(A) Rhizobium

(B) Clostridium

(C) Nitrobacter

(D) Beggiatoa

15. The removal of water from the plants in the form of liquid droplets is—

(A) Guttation

(B) Transpiration

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(C) Transduction

(D) Transformation

16. 'Sirenin' is a sex hormone produced by—

(A) Alga

(B) Fungus

(C) Lichen

(D) Bacterium

17. Which one of the following is a total stem parasite?

(A) Cuscuta

(B) Drosera

(C) Viscum

(D) Vanda

18. The plant which was successfully used in the production of edible vaccine is?

(A) Pea

(B) Mango

(C) Potato

(D) Cabbage

19. Identify the characteristic feature of a prokaryotic cell ?

(A) Presence of cell wall

(B) Presence of 80s ribosome

(C) Absence of genetic material

(D) Presence of 70s ribosome

20. During respiration the oxidative phosphorylation takes place in?

(A) Matrix of chloroplast

(B) Matrix of mitochondrion

(C) Inner membrane of mitochondrion

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(D) Grana of chloroplast

21. Mitochondria are present in all cells, except?

(A) Yeast

(B) Bacteria

(C) Fungi

(D) Algae

22. The carbon dioxide dissolved in water

(A) Enhances corrosion

(B) Suppresses corrosion

(C) Prevents corrosion

(D) Has no influence on corrosion

23. Nylon is a?

(A) Polyester

(B) Polyethylene

(C) Polyamide

(U) Polysaccharide

24. One carat of diamond is?

(A) 100mg

(B) 200mg

(C) 300mg

(D) 400mg

25. Sugar in blood and urine is tested with—

(A) Benedict's solution

(B) Brine solution

(C) Hypo solution

(D) Iodine solution

26. TV antenna elements are made up of—

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- (A) Aluminum
- (B) Copper
- (C) Tin
- (D) Zinc

27. Dry ice is?

- (A) Liquid nitrogen
- (B) Purified ice
- (C) Solid carbon dioxide
- (D) Super cooled ice

28. The calorific value of the fuel is of the order—

- (A) Coal > peat > lignite > dried wood
- (B) Peat > Lignite > coal > dried wood
- (C) Lignite > peat > coal > dried wood
- (D) Coal > lignite > peat > dried wood

29. Which one of the following is correctly matched?

- (A) Baking soda—Sodium bicarbonate
- (B) Caustic soda— Calcium carbonate
- (C) Soda lime—Calcium carbonate
- (D) Washing soda— Calcium hydroxide

30. Which one of the following is correctly matched?

- (A) Ascorbic acid—Vitamin
- (B) Insulin—Antiseptic
- (C) Penicillin—Antipyretic
- (D) Proteins—Polysaccharide

31. Consider the following statements—

Assertion (A) Rusting of iron is quicker in sea water than in river water.

Reason (R) Salinity helps in carrying current.

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Now Select Correct Answer from following

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (K) are true, but (K) is not the correct explanation of (A)
- (C) (A) is true, but (R) is false
- (D) (A) is false ,but (R)is true

32. Which of the following is used for crystal structure studies?

- (A) Infrared spectroscopy
- (B) Raman spectroscopy
- (C) Atomic emission spectroscopy
- (D) X-ray diffraction

33. The scientist who first sent electromagnetic waves to distant places is?

- (A) James Clark Maxwell
- (B) Heinrich Hertz
- (C) Thomas Alva Edison
- (D) Baird

34. In the electrical circuit of a house the fuse is used?

- (A) To regulate the current
- (B) To load
- (C) As safety device
- (D) As step-down device

35. Hexadecimal is the number system with base?

- (A) 10
- (C) 8
- (B) 16
- (D) 2

36. The rays similar to X-rays but of smaller wavelength that are given off by radioactive substances are?

- (A) a-rays
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(B)  $\gamma$ -rays

(C)  $\beta$ -rays

(D) Cosmic rays

37. In an LCR circuit which will give a phase lead to current than voltage?

(A) L (inductance)

(B) C (capacitance)

(C) R (resistance)

(D) All together

38. A drop of water is spherical due to?

(A) Surface tension

(B) Low pressure

(C) Air resistance

(D) Viscosity of water

39. The frequency of ultrasound wave is typically—

(A) Above 20 kHz

(B) Above 20,000 kHz

(C) Below 20 kHz

(D) Below 2 kHz

40. The dark lines in the solar spectrum are due to ?

(A) absorption of corresponding wavelengths by the prism used in the spectrograph.

(B) destructive interference between waves of certain definite wavelengths.

(C) absorption of corresponding wavelengths by the outer layers of the sun.

(D) absence of corresponding wavelengths from the light emitted by the core of the sun.

<sup>1</sup>C

<sup>2</sup>C

<sup>3</sup>B

<sup>4</sup>C

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5<sup>A</sup>

6<sup>A</sup>

7<sup>C</sup>

8<sup>D</sup>

9<sup>D</sup>

10<sup>B</sup>

11<sup>A</sup>

12<sup>B</sup>

13<sup>B</sup>

14<sup>C</sup>

15<sup>A</sup>

16<sup>B</sup>

17<sup>A</sup>

18<sup>C</sup>

19<sup>D</sup>

20<sup>C</sup>

21<sup>B</sup>

22<sup>D</sup>

23<sup>C</sup>

24<sup>B</sup>

25<sup>A</sup>

26<sup>A</sup>

27<sup>C</sup>

28<sup>C</sup>

29<sup>A</sup>

30<sup>A</sup>

31<sup>B</sup>

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32<sub>B</sub>

33<sub>B</sub>

34<sub>C</sub>

35<sub>B</sub>

36<sub>C</sub>

37<sub>B</sub>

38<sub>A</sub>

39<sub>A</sub>

40<sub>C</sub>

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