

Inculcate Scholarship Screening Test- Sample Question Paper

- World Environment Day
 July 21 December 1 June 5 September 8
- Who discovered Hydrogen gas?
 Ruther Ford Henry Cavendish Michael Faraday John Dalton
- The first indigenous nuclear submarine of India.
 INS Vikrant INS Dronacharya INS Virat INS Arihant
- Diameter of the Sun is how many times that of the moon?
 400 200 100 50
- Find the next number in the following number series 1,3,6,11,18,.....
 27 29 19 24
- Sound cannot travel in
 Water Steel Vacuum Air
- To prevent corrosion iron pipes can be coated with
 Chromium Copper Aluminium Zinc
- 676 chairs are arranged in rows and columns in such a way that there are equal number of chairs in each row and column. How many chairs are there in one row?
 24 26 28 34
- Which of the following can be used to preserve food materials for long?
 Ajinomotto Calcium Carbide Saccharine Sodium Benzoate
- The vitamin connected with healthy skin?
 Vitamin K Vitamin C Vitamin B Vitamin A
- A hybrid variety of rice
 Swetha Jwalamukhi Subhra Annapoorna

12. The planet that was predicted before it was actually observed
- Saturn Uranus Neptune Pluto
13. How many thousands are there in 5.04 lakhs?
- 50400 5040 504 50.4
14. Chandrayan-I was launched on
- 22nd October 2008 8th October 2008
 8th November 2008 22nd November 2008
15. Carbohydrates are made up of Carbon, Hydrogen and
- Calcium Oxygen Nitrogen Magnesium
16. We get heat from the sun by
- Conduction Convection Radiation Reflection
17. Which vitamin is produced by our body in the presence of sunlight?
- Vitamin D Vitamin K Vitamin C Vitamin E
18. In deserts clouds doesnot precipitate beacuse of
- Low Pressure High Pressure
 Low Humidity High Temperature
19. When a ship floats on water
- It displaces no water
 The mass of the water displaced is more than the mass of the ship
 The mass of the water displaced is equal to the mass of the ship
 The mass of the water displaced is less than the mass of the ship
20. The colour of the ocean appears to be blue because the sunlight falling on it is
- Absorbed Reflected Radiated Scattered
21. A moving body on earth ordinarily comes to rest by itself because of
- Inertia Gravity Friction Weight

22. The metal that is normally kept in Kerosene
 Magnesium Sodium Potassium Calcium
23. Syringe is a device which functions by
 Fluidity Capillarity Elasticity Air pressure
24. Find the next number in the following number series 243,81,27,9,3,.....
 0 3 1 -3
25. Ius Chasma is related to which planet?
 Mercury Venus Mars Jupiter
26. The first Nobel Prize in Physics was related to the discovery of
 ECG EEG X-ray Endoscopy
27. The star nearest to the earth after the sun
 Sirius Betelgeuse Proxima Centauri Alpha Centauri
28. is a bio-manure
 Azolla Acetobactor Urea Factomphos
29. The period of revolution of a geo-stationary satellite
 30 days 365 days 24 hours 12 hours
30. Which of the following measure cannot be used for making a triangle?
 (2,3,4) (3,4,6) (5,8,4) (1,3,5)
31. Which of the following cannot be a Pythagorean triplet?
 (3,4,5) (6,8,10) (1,2,5) (5,12,13)
32. Who classified the elements into metals and non-metals?
 Lavoisier Priestly Cavendish Mendeleev
33. If a car travels from Thiruvananthapuram to Thrissur at a speed of 30 km/hr and returns to Thiruvananthapuram at a speed of 60 km/hr by the same route, then the average speed of the car is
 45 km/hr 40 km/hr 50 km/hr 48 km/hr

34. When was 'Project Tiger' launched in India?
 1963 1970 1972 1974
35. The father of Green Revolution in India
 Dr. S. Venugopal Dr. M.S. Swaminathan
 Dr. V. Kurien Dr. Vikram Sara Bhai
36. The phenomenon behind the twinkling of stars
 Reflection Refraction Polarisation Interference
37. An example for a lubricant in solid form
 Sand Iron Lead Graphite
38. Pepper research institute is located at
 Panniyoor Mannuthy Mankomb Vellayani
39. The value of $\sqrt[3]{27/64}$
 $3/4$ $4/3$ $5/4$ $4/5$
40. Anaemic persons are deficient in
 Iodine Calcium Iron Sugar
41. Glittering of gold is due to
 Radiation Convection Conduction Reflection
42. Which one cannot be the half of $2^m \times 2^n$
 $\frac{2^m \times 2^n}{2}$ $\frac{2^{m+n}}{2}$ 2^{m+n-1} $2^{mn/2}$
43. The main ingredient of Talcum Powder is
 Magnesium Silicate Magnesium Chloride
 Calcium Carbonate Sodium bi carbonate
44. EEG is used to study the function of
 Heart Brain Liver Lungs

45. The unit of frequency
- Volt Ampere Henry Hertz
46. A fresh egg sinks in pure water but floats in salt water because
- Saline water is lighter than pure water
 Saline water is denser than pure water
 Saline water has high fluid pressure
 Fluid pressure of saline water is low
47. Which of the following provides all the three nutrients Carbohydrate, Protein and Fat?
- Banana Mango Groundnut Apple
48. The gas which does not produce Green house effect
- CFC CH₄ C₂H₆ SO₂
49. The place Taregana was in the headlines recently because of its connection with
- Nuclear Submarine Nuclear Explosion
 Rocket Launching Total solar eclipse
50. National Science Day
- January 26 June 5 February 28 September 16

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1. The Scientist who named the smallest part of an element as atom
 J.J. Thomson Chadwick John Dalton Ruther Ford
2. The covering of the heart
 Peri Cardium Plura Diaphragm Peritonium
3. The person who laid foundation to research in Chemistry in India
 J.C. Bose P.C. Ray C.V. Raman Sir Visweswarayya
4. The gland that regulates sugar in blood
 Pancreas Liver Pituitary None of these
5. Sound travels very fast in solids, because
 Molecules are closely packed in solids Molecules are larger in size
 Molecules are loosley packed in solids None of these
6. The technique of growth and maintenance of plants from its cells or tissues to produce new generation
 Budding Grafting Tissue Culture Layering
7. A disease caused by the deficiency of protein
 Anaemia Kwashiorkor Scurvy Goitre
8. Perimeter of a square that exactly encloses a circle of diameter 3m
 9m 12m 15m 18m
9. Rajapalayam is related to
 Banana Horse Cow Dog
10. Which of the following is the space expedition to Mars
 Genesis Dawn Rosta Phoenix
11. 'Galasa' Programme is associated with
 Art Culture Agriculture Literature

12. Biggest among the following is

$$\frac{30}{31} \text{ —}$$

$$\frac{8}{9} \text{ —}$$

$$\frac{61}{63} \text{ —}$$

$$\frac{79}{30} \text{ —}$$

13. If a quarter kilogram costs Rs.60/- then, how much will cost for 150 grams?

Rs.30

Rs.24

Rs.36

Rs.40

14. If $\frac{1}{3}$ of a number is 15, then what is $\frac{1}{5}$ of that number

9

10

12

15

15. The disorder characterised by the absence of Melanin

Hemophilia

Albinism

Anaemia

Fabrys Disease

16. Head quarters of Central Tuber Crops Research Institute

Palakkad

Thiruvananthapuram

Ernakulam

Kasaragode

17. Indian Institute of Astrophysics is located at

Chennai

Kolkotha

Mumbai

Bangalore

18. Which energy source listed below comes under the non-conventional energy

Hydel Power

Thermal Power

Nuclear Power

Wave Power

19. The chemical responsible for the hot taste of chilly

Melanin

Chlorophyl

Capsaicin

Thiamin

20. Which plant is affected by Blast disease?

Mango Tree

Jackfruit tree

Paddy

Wheat

21. One of the National parks in Kerala

Eravikulam

Thattekkad

Malampuzha

Parambikulam

22. Solar energy is derived from

Nuclear fusion

Nuclear fission

Chemical reaction

None of these

23. Chemical used to preserve blood in blood bank

Citric Acid

Sodium Citrate

Sodium Nitrate

Sodium Chloride

24. The Scientist who gave a relationship between mechanical energy and heat energy

James Prescott Joule

Issac Newton

Michael Faraday

James Watt

25. Which of the following force is responsible for taking a gas balloon upwards
 Gravitational force Muscular force Buoyant force Magnetic force
26. Which of the following is known as 'King of Chemicals'
 Hydrochloric Acid Sulphuric Acid Nitric Acid Phosphoric Acid
27. Plaster of Paris is
 $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$ $\text{CaSO}_4 \cdot \text{H}_2\text{O}$ $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ CaSO_4
28. A train is running at the rate of 1 km in 1 minute and 15 seconds. What is its speed in km/hr?
 60 48 54 72
29. What is 3^2 , $(3^2)^3$
 0 1 3 9
30. The process of heating rubber after adding sulphur in it
 Polarisation Vulcanisation Polimerisation Galvanisation
31. The substance used in squashes like softdrinks for their aroma
 Ester Preservative Catalyst None of these
32. The term Nano technology was originally coined by
 Norio Taniguchi Richard Feynman Harry Kroto Robert Curl
33. Pascal is the unit for
 Force Pressure Frequency Conductivity
34. One third of a number is greater than one fourth of its successor by 1, find the number
 5 15 25 35
35. If $(a^n)^2 = a^{16}$, find the value of n
 8 -8 4 -4
36. The flavour of apple is mainly due to
 Formaline Benzene Ethanol Benzaldehyde

37. The chemical composition of Aspirin

- Acetyl salicylic acid Ethyl Acetate Acetyl Chloride Methyl Salicylate

38. Stars appear to move from east to west because

- All stars move from east to west The earth rotates from west to east
 The earth rotates from east to west The background of the stars moves from west to east

39. Light from the star Alpha Centauri, which is nearest to the earth after the Sun, reaches the earth in

- 4.2 Seconds 42 Seconds 4.2 Years 42 Years

40. If $3^0=1$, $3^1=3$, $3^2=9$, $3^3=27$, $3^4=81$, then what is the last digit of 3^{100}

- 1 3 7 9

41. What is the rate of interest, if a person buys a gadget costs Rs.9000/- by paying monthly instalments of Rs.900/-, for one year

- 10 20 12 15

42. The gas emitted during photosynthesis

- Oxygen Nitrogen Carbon dioxide Hydrogen

43. It is easier to roll a barrel full of coal tar than to pull it because

- The full weight of the barrel comes to play when it is pulled
 The rolling friction is much less than the sliding friction
 More surface area is in contact with the road when it is pulled
 Coal tar flows in the barrel when it is rolled

44. Which element helps in the flowering of plants

- Sulphur Cobalt Potassium Phosphorous

45. The largest producing fruit in India

- Apple Grapes Mango Banana

46. In a class with 40 students, 40% of them are girls. How many girls should join further to make it 50%?

- 2 4 6 8

47. 18×12 , $4+5-6$ is

64

81

53

24

48. The device in which sound is used to detect the functioning of internal organs in the human body

Ultrasound Scan

Angiogram

Sonar

Radar

49. The densest metal

Osmium

Cadmium

Chromium

Strontium

50. On a stationary sail boat air is blown from a fan attached to the boat. The boat

Moves in opposite direction in which air is blown

Does not move

Moves in the same direction in which air blows

Spins around