

General Science Model Test Questions 1 With Answers

1. Gas law was given by
(A) Boyle (B) Ostwald (C) Arrhenius (D) Faraday
2. Growth of the baby in the uterus is found using
(A) X-rays (B) Gamma rays **(C) Ultra sound** (D) Ultra violet rays
3. The forms of matter are
(A) 3 **(B) 4** (C) 5 (D) 7
4. The weather map telecast is T.V. is photographed by the satellite orbiting at a height of
(A) 36,000 km. (B) 3,600 km. (C) 3,600 miles (D) 360 km.
5. The unit of work and energy is
(A) Joule (B) Newton (C) Coulomb (D) Dioptr
6. Einstein got the Nobel Prize for
(A) Relativity **(B) Photo-electric effect** (C) Polarisation (D) Radio activity
7. Asia's biggest astronomical telescope is at
(A) Kavanur (B) Kodaikanal (C) Bangalore (D) New Delhi
8. An example of semi – conductor is
(A) German silver **(B) Germanium** (C) Phosphorus (D) Arsenic
9. Unit of charge is
(A) Coulomb (B) Faraday (C) Newton (D) Volt
10. Persistence of vision is the principle behind
(A) Camera (B) Spectroscope **(C) Cinema** (D) Periscope
11. The normal boiling point of a liquid is the temperature at which
(A) The vapour pressure of the liquid is zero
(B) The vapour pressure of the liquid is standard pressure
(C) The density of the liquid is unity
(D) The vapour pressure of the liquid is equal to the atmospheric pressure
12. The shining particles seen in the path of beam from a projector in cinema hall is due to
(A) Shining particles emanating from projector

- (B) Scattering of light by dust particles in the path of the light**
- (C) Brownian movement of the dust
- (D) Electrical properties of dust particles
13. "Decibel" is a unit of
- (A) Sound intensity** (B) Light (C) Heat (D) Electricity
14. The weight of a body is
- (A) The same everywhere on the surface of the earth
- (B) Maximum at the poles**
- (C) Maximum at the equator
- (D) More on the hills than in the plains
15. Ball pen works on the principle of
- (A) Viscosity (B) Boyle's law
- (C) Gravitational force **(D) Capilarity and surface tension**
16. At what temperature a body will not radiate any heat energy?
- (A) 0°C (B) 273°C (C) 100°C **(D) -273°C**
17. In a standing wave the distance between a node and adjacent antinode is
- (A) $\frac{3\pi}{2}$ (B) $\pi/2$ **(C) $\pi/4$** (D) $3\pi/4$
18. A telescope and a microscope differ in that
- (A) Both are different instruments
- (B) Telescope has eyepiece with larger focal lengths than the objective
- (C) Telescope has objective of larger focal lengths and eyepiece of smaller focal lengths**
- (D) None of these
19. The centre of the Newton's rings pattern is dark since
- (A) The light undergoes a phase change π**
- (B) The glass plate and the plano – convex lens are in contact with each other at the centre
- (C) The light undergoes a phase change 2π
- (D) The light undergoes a phase change $\frac{\pi}{2}$
20. Galvanometer can be converted into a voltmeter by using

(A) A low resistance in series (B) A high resistance in series

(C) A low resistance in parallel (D) A high resistance in parallel

21. The apparatus used in submarines to give clear view of the objects on the ocean or ground is known as

(A) Periscope (B) Sextant (C) Stereoscope (D) Telescope

22. Which metal is commonly used for making an electromagnet?

(A) Copper (B) Iron (C) Nickel (D) Cobalt

23. Kilowatt – hour is a unit of

(A) Energy (B) Power (C) Electric charge (D) Current

24. Choke is used to

(A) Reduce the current in AC circuit (B) Reduce the current in DC circuit

(C) Convert AC to DC (D) Convert DC to AC

25. The ozone layer protects us from

(A) Ultra violet rays (B) Radiowaves

(C) Visible radiation (D) Infrared radiation

24. Match list-I with list-II correctly and select your answer using the codes given below:

List-I

List-II

(Scientist)

(Discovery)

(a) Copernicus

1. Moons of jupiter

(b) Kepler

2. Law of gravitation

(c) Galileo

3. Heliocentric theory

(d) Newton

4. Laws of planetary motion

Codes:

a b c d

(A) 1 2 3 4

(B) 4 3 1 2

(C) 3 1 4 2

(D) 3 4 1 2

27. Consider the following statements:

Assertion (A): Electric power is transmit-ted over long distance through conducting wires of very low voltages.

Reason (R): Then only the power can be supplied to the individual houses.

Now select your answer according to the coding scheme given below:

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

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

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

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

28. Consider the following statements:

Assertion (A): An athlete runs same distance before taking a long jump.

Reason (R): It helps him to apply a large force.

Now select your answer according to the coding scheme given below:

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

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

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

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

29. Which one of the following is not correctly matched?

(A) A cycle wheel is fitted with spokes - Because it increases the strength of the wheel

(B) It is easy to draw a wooden block along an inclined plane than to raise it vertically - Because only a part of weight is to be overcome

(C) In the evening, when the sun goes below the horizon, it is visible for some time - Because the air near the earth's surface is denser than that in the upper atmosphere

(D) A man in a lift will weigh more - When the lift accelerates upwards

30. Which one of the following is not correctly matched?

(A) Kilowatt . hour - Energy **(B) Celcius - Name of a king**

(C) Balance wheel in watch - Invar (D) Newton - Force

31. Which one of the following is correctly matched?

(A) Burning glass - Convex mirror

(B) Dentist's mirror - Cylindrical mirror

(C) Motorist's mirror for near view - Concave mirror

(D) Head lamps of cars - Parabolic concave mirror

32. Which of the following is correctly matched?

(A) Hydraulic press - Archimedes principle

(B) Lift of airplane - Bernoulli's principle

(C) Paint – gun - Newton's third law

(D) Electron microscope- Refraction of electron waves

33. Name of 4 planets are give:

Uranus, Mars, Venus, Jupiter. Their correct order of the position from the sun is

(A) Jupiter, Venus, Uranus, Mars (B) Venus, Uranus, Jupiter, Mars

(C) Venus, Mars, Jupiter, Uranus (D) Uranus, Jupiter, Mars, Venus

34. Match list-I with list-II correctly and select your answer using the codes given below:

List-I

List-II

- | | |
|-------------------|---|
| (a) Exosphere | 1. Space surrounding the earth or any celestial body |
| (b) Magnetosphere | 2. Earth's atmosphere about 400 km. above the earth's surface |
| (c) Photosphere | 3. Earth's atmosphere about 11 km. above the earth's surface |
| (d) Stratosphere | 4. Visible portion of the sun |

Codes:

- | | | | | |
|------------|----------|----------|----------|----------|
| | a | b | c | d |
| (A) | 1 | 2 | 3 | 4 |
| (B) | 2 | 1 | 4 | 3 |
| (C) | 4 | 1 | 2 | 3 |
| (D) | 1 | 4 | 3 | 2 |

35. Four electromagnetic waves of different wave lengths are given. (X-rays, Microwaves, Ultraviolet, Infrared.) Their correct arrangement in the descending order of wave length is

(A) X-ray, Ultraviolet, Infrared and Microwaves

(B) Microwaves, Infrared, Ultraviolet and X-rays

(C) Ultraviolet, Infrared, X-rays and Microwaves

(D) Microwaves, X-rays, Infrared and Ultraviolet

36. Match list-I with list-II correctly and select your answer using the codes given below:

List-I

List-II

- | | |
|----------------|---|
| (a) Goniometer | 1. Apparatus for determining the boiling point of liquids |
| (b) Hypsometer | 2. Apparatus for measuring pressure of a gas |
| (c) Manometer | 3. Apparatus for measuring density of liquids |
| (d) Pyknometer | 4. Apparatus for measuring angles |

Codes:

- | | | | | |
|------------|----------|----------|----------|----------|
| | a | b | c | d |
| (A) | 4 | 1 | 2 | 3 |
| (B) | 1 | 4 | 3 | 2 |
| (C) | 1 | 2 | 3 | 4 |
| (D) | 2 | 1 | 4 | 3 |

37. Atom bomb is based on the principle of

- | | |
|-----------------------|----------------------------|
| (A) Nuclear fusion | (B) Nuclear fission |
| (C) Chemical reaction | (D) None of these |

38. Which one of the following is not correctly matched?

- | | |
|-----------------------|---|
| (A) Actionometer | - For measuring the intensity of electro magnetic radiation |
| (B) Dynamometer | - For measuring current |
| (C) Anemometer | - For measuring the speed of wind |
| (D) Atmometer | - For measuring the rate of evaporation of water |

39. Which one of the following is not correctly matched?

- | | |
|------------------|--|
| (A) Quarks | - A kind of crystal |
| (B) Venus | - Brightest planet in the night sky |
| (C) Nucleon | - Proton and Electron |
| (D) Maser | - A powerful source of heat |

40. Match list-I with list-II correctly and select your answer using the codes given below:

- | | |
|-------------|--|
| List-I | List-II |
| (a) Mars | 1. A planet with prominent rings around it |
| (b) Mercury | 2. Planet farthest from the sun |
| (c) Pluto | 3. Planet closet to the sun |
| (d) Saturn | 4. Red planet |

Codes:

- | | | | |
|---|---|---|---|
| a | b | c | d |
|---|---|---|---|

- (A) 4 3 1 2
 (B) 1 2 3 4
(C) 4 3 2 1
 (D) 3 4 2 1

41. When a wave goes from one place to an other it transports

- (A) Matter **(B) Energy** (C) Mass (D) Nothing

42. A 100 watt bulb will consume one unit of electrical energy in

- (A) 1 hour **(B) 10 hours** (C) one day (D) 60 hours

43. The solar system belongs to the galaxy called

- (A) Andromeda nebula **(B) Milky way**
 (C) Radio galaxy (D) Magellanic cloud

44. In an electric bulb, a little nitrogen or argon is introduced at low pressure to

- (A) Cool the hot filament (B) Withstand atmospheric pressure
(C) Prevent evaporation of the element (D) Increase brightness of the filament

45. An artificial satellite can be tracked very precisely from the earth by using

- (A) Doppler effect** (B) Radar (C) Sonar (D) Zeeman effect

46. Consider the following statements:

Assertion (A): In an electric bulb, the filament is in the form of a coiled coil

Reason (R): A coiled coil filament occupies less space and is there fore, not cooled significantly by the convection currents in the bulb

Now select your answer according to the coding scheme given below:

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

47. Match list-I with list-II correctly and select your answer using the codes given below:

- | List-I | List-II |
|------------------------------|------------|
| (a) Range of Audio frequency | 1. Kilo Hz |
| (b) Range of AC frequency | 2. 20 Hz |

- (c) Range of radio frequency 3. Mega Hz
 (d) Range of TV frequency 4. 50 Hz

Codes:

	a	b	c	d
(A)	3	2	4	1
(B)	4	2	1	3
(C)	1	4	2	3
(D)	3	1	4	2

48. The sudden fall of atmospheric pressure indicates
 (A) Fair weather **(B) Storm** (C) Rain (D) Cold wave
49. Which one of the following layers of the atmosphere is responsible for the reflection of radio waves?
 (A) Troposphere (B) Stratosphere (C) Mesosphere **(D) Ionosphere**
50. Television was discovered by
 (A) Becquerel (B) Bhaba H.J. (C) Bohr **(D) Baird J.L.**
51. In adding a little antimony to germanium, we get
 (A) P-type semiconductor **(B) N-type semiconductor**
 (C) Metallic conductor (D) Intrinsic semiconductor
52. Consider the statements: X-rays,
 I. Are not electromagnetic radiations
 II. Are electromagnetic radiations
 III. Have longer wave lengths
 IV. Have shorter wave lengths
 Of these statements:
 (A) I and III are correct (B) I and IV are correct
(C) II and IV are correct (D) II and III are correct
53. Consider the statements: Gemini is,
 I. A kind of flower
 II. A planet
 III. A twin star

IV. The third sign of the zodiac

Of these statements:

- (A) III and IV are correct (B) I only is correct
 (C) II only is correct (D) III only is correct

54. Which one of the following is correctly matched?

- (A) Radar - To measure the intensity of radiation
 (B) Pulsar - To measure the pulse of human beings
(C) Sonar - For locating the submerged objects
 (D) Quasar - To measure the energy of a quantum

55. Which of the following waves / rays are produced by nuclear changes in the atom?

- (A) Infrared rays (B) Light waves **(C) γ - rays** (D) X-rays

56. Artificial satellites are used for

- (A) TV transmission (B) Detecting minerals
 (C) Space research **(D) All the three**

57. Sound travels at maximum speed in

- (A) Vacuum (B) Air (C) Water **(D) Steel**

58. The minimum lengths of a plane mirror in which a person can see himself in full length should be

- (A) Equal to the person's height** (B) Slightly more than his height
 (C) Nearly half of his height (D) Nearly one fourth of his height

59. Match list-I with list-II correctly and select your answer using the codes given below:

- | List-I | List-II |
|----------------|-------------------------------|
| (a) Bohr | 1. Neutron |
| (b) Einstein | 2. Model of the hydrogen atom |
| (c) Chadwick | 3. Matter waves |
| (d) De Broglie | 4. Photoelectric effect |

Codes:

- | | a | b | c | d |
|-----|---|---|---|---|
| (A) | 2 | 4 | 3 | 1 |
| (B) | 1 | 3 | 2 | 4 |

(C) 2 4 1 3

(D) 3 2 4 1

60. If you walk towards a plane mirror at a speed of 10 cm/s at what speed does your image approach you?

(A) 5 cm/s (B) **10 cm/s** (C) 20 cm/s (D) information inadequate

61. The normal temperature of human body on the Kelvin scale is

(A) 280 (B) 290 (C) **310** (D) 340

62. Consider the following statements:

Assertion (A): The relay satellite transmits the TV programme continuously from one part of the world to another

Reason (R): Its period is less than the period of rotation of the earth

Select the answer from coding scheme given below:

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

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

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

(D) **(A) is false, but (R) is true**

64. Consider the following statements:

Assertion (A): A man inside an artificial satellite feels weightlessness.

Reason (R): The force of attraction due to the earth is equal to the centripetal force.

Select the answer from coding scheme given below:

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

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

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

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

65. Consider the following statements:

Assertion (A): In a pressure cooker the cooking is done faster.

Reason (R): More steam is available to cook the food at 100°C.

Select the answer from coding scheme given below:

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

(B) **(A) is true, but (R) is false**

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

66. Consider the following statements:

Assertion (A): We see only one side of the moon all the time.

Reason (R): Unlike the earth, the moon does not rotate on its axis.

Select the answer from coding scheme given below:

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

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

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

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

67. Electrons microscopy is advantageous because

(A) Much greater resolution is possible

(B) Electrons are used as a source of radiation

(C) Transmission and scanning types are available

(D) All the above mentioned features are combined

68. The phenomenon which cannot be explained by wave theory is

(A) Reflection

(B) Refraction

(C) Photoelectric emission

(D) Polarisation

69. The size of the atomic nucleus is

(A) 10^{-14} m

(B) 10^{-10} m

(C) 10^{-24} m

(D) 10^{-6} m

70. The half life of a radioactive sample is 20 minutes. The fraction of the sample that will remain undecayed after 80 minute is

(A) 1/16

(B) 1/12

(C) 1/8

(D) 1/4

71. The sudden fall of atmospheric pressure indicates

(A) Fair weather

(B) Storm

(C) Rain

(D) Cold wave

72. Electrons can be accelerated to very high energies by means of

(A) Thyratrons

(B) Magnetrons

(C) Betatrons

(D) Cyclotrons

73. Who discovered x-ray?

(A) Madam Curie

(B) Einstein

(C) Roentgen

(D) Thomson

74. Polaroids are used in
(A) Photo electric effect (B) **Photo – elasticity**
(C) Photo – electric cell (D) Photosynthesis
75. Pure silicon is used in
(A) **Electronic industry** (B) Textile industry
(C) Paint industry (D) Pharmaceuticals
76. The lowest level energy band in a solid is called
(A) **Valence bond** (B) Conduction bond
(C) Fermi level (D) Equal level
77. Consider the following statements:
Assertion (A): A simple pendulum experiment cannot be performed in a satellite.
Reason (R): The simple pendulum inside the satellite will be in a state of zero gravity.
Select your answer from the coding scheme given below:
(A) **Both (A) and (R) are true, and (R) is the correct explanation of (A)**
(B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
(C) (A) is true, but (R) is false
(D) (A) is false, but (R) is true
78. Ice is slippery, when a man walks on it, for
(A) its surface is smooth (B) **there is no friction**
(C) increase of pressure causes ice to melt (D) it is very chill
79. Which one of the following is correctly matched?
(A) Viscosity - Kg/m (B) **Surface tension - Newton/m**
(C) Young's modulus - Kg/m² (D) Rigidity modulus - Newton/m²
80. When a vehicle passes, TV reception gets distorted due to
(A) metal reflection radio waves
(B) **spark plug creating electromagnetic disturbances**
(C) passing vehicle affecting TV components
(D) use of electronic ignition system

81. The escape velocity of a projectile from the earth is approximately
(A) 7 km/s **(B) 11.2 km/s** (C) 1.2 km/s (D) 21.2 km/s
82. Why do rain – bearing clouds look black?
(A) All light is scattered by them
(B) They reflect the sunlight back into the atmosphere
(C) The large number of water droplets in them absorb all the sunlight
(D) There is a lot of dust condensed on the water vapour in these clouds
83. The sky is blue in colour because of
(A) The Moisture present in the air
(B) The scattering of light by dust particles or air molecules
(C) Combination of various lights producing blue colour
(D) all of those
84. Sound waves in air are
(A) Transverse waves **(B) Longitudinal waves**
(C) May be both types (D) None of these
85. The density of pure water will be
(A) Maximum at 4° C (B) Minimum at 4° C
(C) Maximum at 0° C (D) Minimum at 0° C
86. Penetrating power is greater in the case of
(A) α – ray (B) β – ray **(C) γ – ray** (D) x – ray
87. Consider the following statements:
Radioactive substances emit
I. α – ray II. β – ray III. x – ray IV. γ – ray
Of the statements:
(A) I and II are correct (B) I, II and III are correct
(C) I, II and IV are correct (D) All are correct
88. X-rays cannot penetrate through
(A) Wood (B) Aluminium **(C) Lead** (D) Iron

89. Who discovered that the earth moves round the sun?
(A) Newton (B) Galileo (C) Aristotle (D) **Copernicus**
90. Planet nearest to the sun is
(A) Pluto (B) **Mercury** (C) Venus (D) Uranus
91. A raw egg and a boiled egg of the same appearance, same size and same mass can be distinguished, without breaking, by using
(A) Inertia of motion
(B) Inertia of rest
(C) Conservation of linear momentum
(D) Conservation of angular momentum
92. Nib of the pen is split keeping in view the phenomenon of
(A) Osmosis (B) Diffusion (C) **Capillarity** (D) Cohesion
93. Speeds of bodies exceeding the speed of sound are called
(A) Supersonic (B) Ultrasonic (C) Infrasonic (D) superfast
94. Refractive index is highest for
(A) Glass (B) Water (C) Rock-Salt (D) **Diamond**
95. The splitting of a beam of white light into its different colours is known as
(A) Refraction (B) Reflection (C) **Dispersion** (D) None of these
96. In winter, the temperature of the inside wall of a house as compared to the temperature of the air in the room is
(A) Lower (B) Higher
(C) The same (D) Depends on the atmospheric pressure
97. At what temperature are the readings of a centigrade and Fahrenheit thermometers the same?
(A) 0 -40° (B) 40° (C) 100° (D) 212°
98. Which of the following electronic devices is used for digital displays in electronic calculators?
(A) photo Diodes (B) Zener Diodes (C) **LEDs** (D) none of these
99. Which one of the following substance is nonmagnetic?
(A) Glass (B) Wood (C) Silver (D) **All these**
100. Sound travels fastest through

(A) Vacuum

(B) Steel

(C) Water

(D) Air

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