

Top 100 GK/GS Questions for Bihar SI/Daroga Mains

Q1. Which of the following is used for wrapping of fractured bones?

- (a) white cement.
- (b) white lead.
- (c) Zinc oxide.
- (d) Plaster of Paris.

Q2. How many feet has a crab got?

- (a) 12.
- (b) 10.
- (c) 8.
- (d) 6.

Q3. Water flows off the wings of bird's and insects due to the presence of?

- (a) Waxes.
- (b) Sugars.
- (c) Proteins.
- (d) Minerals.

Q4. Who was the inventors of frozen foods?

- (a) Alfred nobel.
- (b) Clarence Birdseye.
- (c) Frank whittle.
- (d) Ives Mcguffey

Q5. What are the female gametes called as?

- (a) Zygote.
- (b) Ova.
- (c) sperms.
- (d) Embryo.

Q6. The limb bones of children become bent if there is deficiency of vitamin?

- (a) A.
- (b) B1.
- (c) D.
- (d) E.



Q7. In females, the uterus is?

- (a) single.
- (b) Double.
- (c) Triple.
- (d) Four.

Q8. In mammals , an important role of excretion is played by?

- (a) Large intestine.
- (b) kidneys.
- (c) Lungs.
- (d) Liver.

Q9. In females , the uterus is?

- (a) single.
- (b) Double.
- (c) Triple.
- (d) Four.

Q10. Which of the following is found in hair?

- (a) Histone.
- (b) keratin.
- (c) Elastin.
- (d) Actin.

Q11. Heavy water is____?

- (a) Monoterium oxide.
- (b) Polyterium oxide.
- (c) Deuterium oxide.
- (d) Trislum oxide.

Q12. Chile saltpeter is the common name of?

- (a) Potassium nitrate.
- (b) Sodium nitrate.
- (c) Sodium Nitrite.
- (d) Potassium Nitrite.

Q13. The credit for the discovery of transuranic element goes to –

- (a) Hahn
- (b) Rutherford
- (c) Seaborg
- (d) Curie



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Q14. _ is a by-product of sewage treatment and can be decomposed to produce bio-gas?

- (a) sewage.
- (b) sludge.
- (c) sewer.
- (d) scum.

Q15. Sodium chloride or table salt occurs in nature as the mineral?

- (a) Sylvite.
- (b) Talc.
- (c) Halite.
- (d) Sphalerite.

Q16. What is the chemical symbol of “Iron”?

- (a) Ir.
- (b) Fe.
- (c) F.
- (d) In.

Q17. Electrons Move around the nucleus in?

- (a) Translatory.
- (b) Spin.
- (c) Orbital.
- (d) Vibrational.

Q18. Which of the properties of the element is a whole number?

- (a) Atomic mass.
- (b) Atomic number.
- (c) Atomic radii.
- (d) Atomic volume.

Q19. In an acid base reaction which product is produced along with a Salt?

- (a) Hydrogen gas.
- (b) Oxygen gas.
- (c) Carbon dioxide.
- (d) Water.

Q20. Which among the following has the maximum density?

- (a) Water.
- (b) Ice.
- (c) Ethylene.
- (d) Acetone.

Q21. In an observation, α -particles, β -particles and γ -rays have same energies. Their penetrating power in a given medium in increasing order will be

- (a) α , β , γ
- (b) β , γ , α
- (c) α , γ , β
- (d) β , α , γ

Q22. A person standing 1 m in front of a plane mirror approaches the mirror by 40 cm. The new distance between the person and his image in the plane mirror is

- (a) 60 cm
- (b) 1.2 m
- (c) 1.4 m
- (d) 2.0 m

Q23. In respect of the difference of the gravitational force from electric and magnetic forces, which one of the following statements is true?

- (a) Gravitational force is stronger than the other two.
- (b) Gravitational force is attractive only, whereas the electric and the magnetic forces are attractive as well as repulsive.
- (c) Gravitational force has a very short range.
- (d) Gravitational force is a long-range force, while the other two are short range forces.

Q24. Creation of something from nothing is against the law of

- (a) Constant proportions
- (b) conservation of mass-energy
- (c) Multiple proportions
- (d) Conservation of momentum

Q25. An electron and a proton are circulating with same speed in circular paths of equal radius. Which one among the following will happen, if the mass of a proton is about 2,000 times that of an electron?

- (a) The centripetal force required by the electron is about 2,000 times more than that required by the proton
- (b) The centripetal force required by the proton is about 2,000 times more than that required by the electron
- (c) No centripetal force is required for any charged particle
- (d) Equal centripetal force acts on both the particles as they rotate in the same circular path

Q26. An object is raised to a height of 3 m from the ground. It is then allowed to fall on to a table 1 m high from ground level. In this context, which one among the following statements is correct?

- (a) Its potential energy decreases by two-thirds its original value of total energy
- (b) Its potential energy decreases by one-third its original value of total energy
- (c) Its kinetic energy increases by two-thirds, while potential energy, increases by one-third
- (d) Its kinetic energy increases by one-third, while potential energy increases by one-third

Q27. Two pieces of conductor of same material and of equal length are connected in series with a cell. One of the two pieces has cross-sectional area double that of the other. Which one of the following statements is correct in this regard?

- (a) The thicker one will allow stronger current to pass through it.
- (b) The thinner one would allow stronger current to pass through it.
- (c) Same amount of electric current would pass through both the pieces producing more heat in the thicker one.
- (d) Same amount of electric current would pass through both the pieces producing more heat in the thinner one.

Q28. A wire-bound standard resistor used manganic or constantan. It is because

- (a) These alloys are cheap and easily available
- (b) They have high resistivity
- (c) They have low resistivity
- (d) They have resistivity which almost remains unchanged with temperature

Q29. Which one among the following is used in making lead pencils?

- (a) Charcoal
- (b) Graphite
- (c) Coke
- (d) Carbon black

Q30. Sodium metal should be stored in

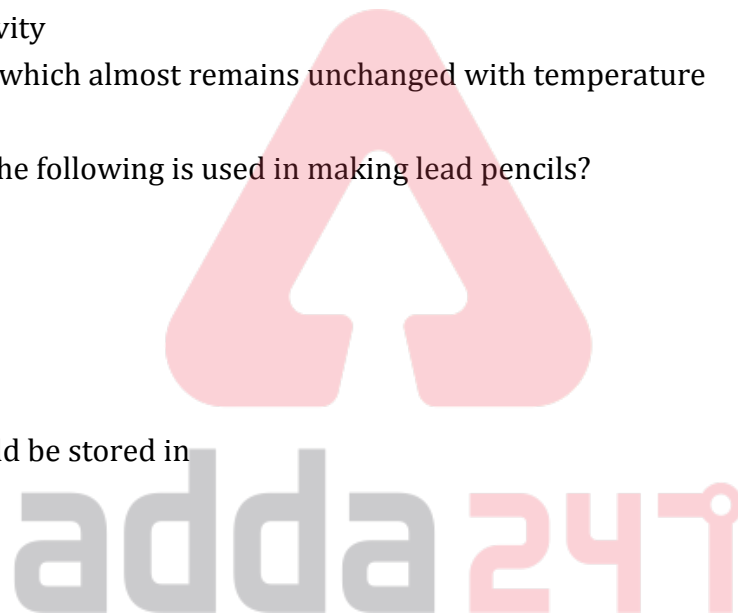
- (a) Alcohol
- (b) Kerosene oil
- (c) Water
- (d) Hydrochloric acid

Q31. First time BRICS symposium is organized Which is the host country

- (a) Brazil
- (b) Russia
- (c) China
- (d) India

Q32. In 2021 G-20 was hosted by which country

- (a) Malaysia
- (b) Sri Lanka
- (c) Italy
- (d) Argentina



Q33. match the column 1 and column 2 and select the correct option

Column 1		column 2
a. mitochondria		1 Without membrane
b. lysosomes		2 single membrane
c. ribosomes		3 double membrane
a	b	c
(a) 1	2	3
(b) 3	1	2
(c) 3	2	1
(d) 2	3	1

Q34. Identify the right statement

1. Weather is the momentary state of atmosphere
 2. climate refers to average of the Weather condition over a long period of time
- (a) only 1
(b) only 2
(c) both
(d) none

Q35. Who received the Padma Shri award in 2021

- (a) P Anita
(b) P t Usha
(c) Anju bobby George
(d) Sania Mirza

Q36. disease that affects many people at different countries is termed as

- (a) sporadic
(b) epidemic
(c) endemic
(d) pandemic

Q37. Which Chinese traveller visited India during Chandragupta 2 rule

- (a) Huen sang
(b) I-sang
(c) Taranath
(d) Fa- hien

Q38. Which rays contain positively charge particles

- (a) beta
(b) alpha
(c) gama
(d) x ray

Q39. If square A With side 2 cm is joined With square B 2cm What is the area in cm joining A and B

- (a) 4
- (b) 6
- (c) 8
- (d) 16

Q40. Name of the magazine published Mathama Gandhi during his stay in South Africa

- (a) Nav jeevan
- (b) Indian opinion
- (c) Indian reformer
- (d) New India

Q41. Most of the pathogenic microorganisms grow and multiply best at

- (a) 20 degree c
- (b) 37 degree c
- (c) 49 degree c
- (d) 74 degree c

Q42. Which is the largest unit of storage unit

- (a) tera
- (b) mega
- (c) byte
- (d) giga

Q43. Reference group is a

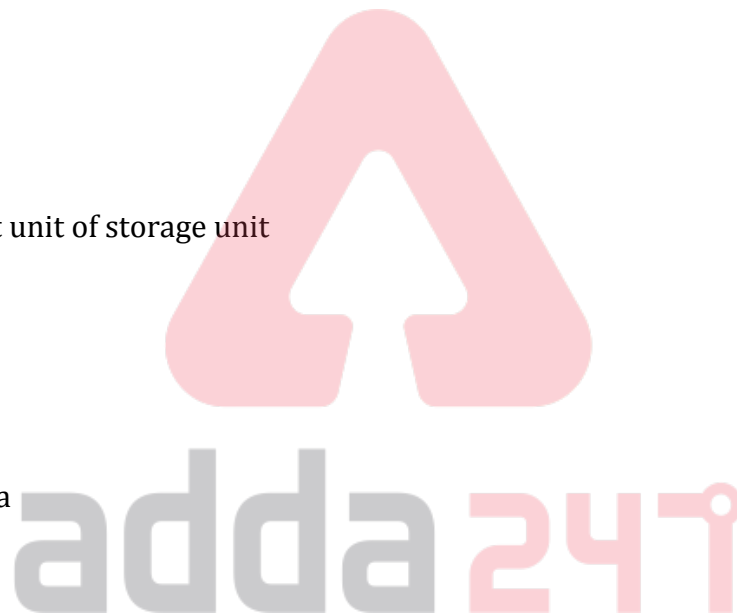
- (a) Fantasy group
- (b) Aspiration group
- (c) Quasi group
- (d) Virtual group

Q44. Hayabusa 2 misssion is of which space agency

- (a) JAXA
- (b) NASA
- (c) CNSA
- (d) ISRO

Q45. Dandakaranaya plateau is located in the state of

- (a) Tamil Nadu
- (b) Telengana
- (c) Chattisgarh
- (d) Madhya pradesh



Q46. Twinkling of stars is due to

- (a) atmospheric refraction
- (b) scattering
- (c) dispersion
- (d) reflection

Q47. In Which country the Kimberley diamond mining center is located

- (a) South Africa
- (b) Afghanistan
- (c) Nigeria
- (d) Brazil

Q48. What happens When a sewage is disposed in a Water body

- (a) oxygen consumption of microbes increases
- (b) dissolved O₂ increases
- (c) dissolved O₂ decreases
- (d) no change in O₂ concentration

Q49. When did life originate on earth

- (a) 6 million yr ago
- (b) 3.5 billion yr ago
- (c) 4.9 billion yr ago
- (d) 6 billion yr ago

Q50. Where was general agreement on tariff and trade established

- (a) Mauritius
- (b) Geneva
- (c) China
- (d) Singapore

Q51. Weight of shotput for Women is

- (a) 4 kg
- (b) 3kg
- (c) 4.5 kg
- (d) 3.75 kg

Q52. Title of the short story in Rajasthani language Which Was awarded With Sahitya Academy award is

- (a) Bachpan ki baat
- (b) Bareek baat
- (c) Beti ri beedai
- (d) Nari ro maan



Q53. Which of the following is the busiest canal in the World

- (a) panama
- (b) kiel
- (c) rhine
- (d) bayland

Q54. Where Was the World summit on Sustainable Development in 2002 held

- (a) rio de jenerio
- (b) stockholmes
- (c) Johannesburg
- (d) tokyo

Q55. Which one is the greatest

- (a) $(1.9)^2$
- (b) 3.49
- (c) $2\sqrt{3}$
- (d) 69/19

Q56. Toxic substance that is present in green potatoes is

- (a) ergot
- (b) trypsin inhibitors
- (c) sanguinarine
- (d) solanine

Q57. Who among the following was known as lakh bakhsh

- (a) iltutmish
- (b) balban
- (c) qutubuddin aibak
- (d) firoz tughlaq

Q58. Who among the following is the founder of Satya Sodhak Samaj

- (a) mahatma gandhi
- (b) raja ram mohan roy
- (c) dayananda sarashWati
- (d) Joytirao phule

Q59. Tso kar wetland is located in

- (a) mainpur
- (b) ladhakh
- (c) arunachal pradesh
- (d) sikkim

Q60. identify the correct chronological sequence

1. 2nd round table conference,
2. quit india movement,
3. formation of INC,
4. simon commission report

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

Q61. Which amendment in the Indian constitution limits the number of minister in the council of minister

- (a) 73rd
- (b) 86th
- (c) 87th
- (d) 91st

Q62. At the time of Aurangzeb's death the Maratha leadership was in the hand of

- (a) Sambhaji
- (b) Raja ram
- (c) Jeejabai
- (d) Tarabai

Q63. Food items to be consumed raw should be Washed With

- (a) HCl
- (b) NaOH
- (c) H₂SO₄
- (d) KNO₄

Q64. Who Was the founder of protestantism

- (a) Martin luther
- (b) Plato
- (c) Erasmus
- (d) Henery V

Q65. ___ act as filter of blood but trapping blood borne microbes

- (a) thymus
- (b) lymph nodes
- (c) spleen
- (d) liver

Q66. World's faster sprinter Usain Bolt belongs to

- (a) Nigeria
- (b) Colombia
- (c) Jamaica
- (d) Yuganada

Q67. according to Bohr's theory relation between radii of an atom r and principle quantum number n is given by

- (a) r directly proportional to n
- (b) r is inversely proportional to n
- (c) r directly proportional to n^2
- (d) r inversely proportional to n^2

Q68. Characteristic of primary group

- (a) large group of individuals
- (b) intimate and face to face relationship
- (c) lack of sense of belongingness
- (d) formal relationship

Q69. National sports day is celebrated on

- (a) 21 june
- (b) 29 july
- (c) 29 august
- (d) 31 august

Q70. Myco toxins are produced by

- (a) bacteria
- (b) algae
- (c) fungi
- (d) protozoans

Q71. Which decade is declared as UN decade of healthy aging

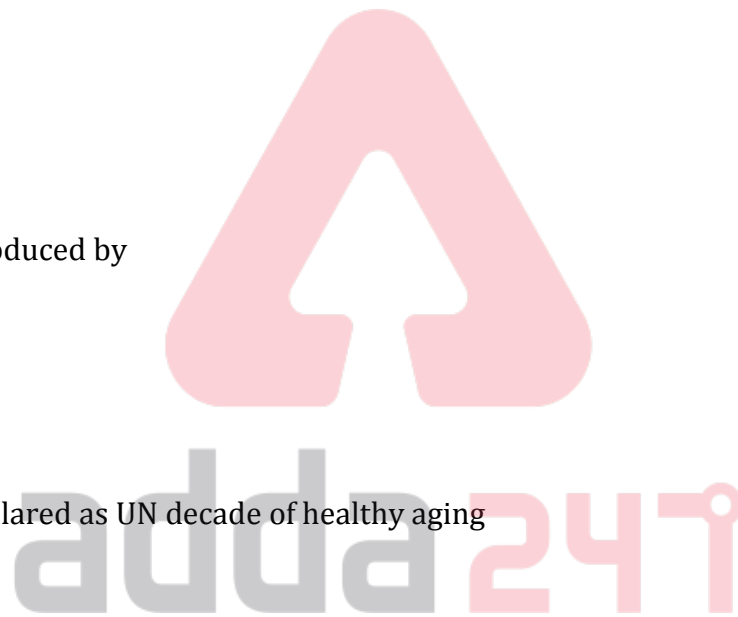
- (a) 2016-25
- (b) 2022-32
- (c) 2019-28
- (d) 2021-30

Q72. Which one of the following is an acoustic unit

- (a) Calorie
- (b) Decibel
- (c) Ampere
- (d) Volt

Q73. Rani Rampal is associated With Which sport

- (a) Cricket
- (b) Hockey
- (c) Basketball
- (d) Badminton



Q74. The Legislative council in a state can be created or abolished by the

- (a) president on the recommendation of governor
- (b) parliament on the recommendation of CM
- (c) parliament after the state assembly passes a resolution to that effect
- (d) governor on the advice of council of minister

Q75. In holding system of pasteurization milk is heated for 30 min at

- (a) 94 degree c.
- (b) 72 degree c
- (c) 68 degree c
- (d) 65 degree c

Q76. If We multiply a fraction by itself and divide the product by its reciprocal, $18\frac{26}{27}$ is obtained original fraction is

- (a) $1\frac{1}{3}$
- (b) $\frac{8}{27}$
- (c) $2\frac{2}{3}$
- (d) $2\frac{1}{3}$

Q77. Haldibari- chilhati rail link is connecting India With Which country

- (a) Bangladesh
- (b) Bhutan
- (c) Myanmar
- (d) thailand

Q78. 1st center of excellence for skill development in power sector is stablished at Which city

- (a) Noida
- (b) Ghaziabad
- (c) Guru gram
- (d) Aligarh

Q79. In case of elastic demand an increase in price Will

- (a) lead to increase in total revenue
- (b) lead to decrease in total revenue
- (c) have no effect on total revenue
- (d) none

Q80. Who is the Winner of the best director of the at the India FilmFare 2021

- (a) meera nayar
- (b) om raut
- (c) anuraj kashyap
- (d) rohit shetty

Q81. deficiency of calcium leads to

- (a) anemia
- (b) rickets
- (c) night blindness
- (d) marasmus

Q82. India will start the manufacture of Israeli CARMEL in India. What is CARMEL?

- (a) rifle
- (b) helicopter
- (c) aircraft
- (d) radar

Q83. To find users password for hacking purpose refers to

- (a) sniffing
- (b) spoofing
- (c) cyber stalking
- (d) spamming

Q84. Irish sea is located in

- (a) south of France
- (b) West of New Zealand
- (c) south of Spain
- (d) West of Britain

Q85. FIFA World Cup 2022 will be held in

- (a) UAE
- (b) Qatar
- (c) Sweden
- (d) Russia

Q86. If $/$ means $+$, \times means $-$, $+$ means $/$ and $-$ means \times then What is the value of $10/5-3\times 8+4$

- (a) -18
- (b) 18
- (c) -23
- (d) 23

Q87. Which of the following is used as the preservative to protect processed food

- (a) sodium metabisulphate
- (b) saccharin
- (c) diclofenac sodium
- (d) sodium tripolyphosphate

Q88. india standard time line does not pass through

- (a) UP
- (b) odisha
- (c) Chhattisgarh
- (d) telangana

Q89. Which sultan introduced new department diwan-e-amir-e-kohi

- (a) iltutmish
- (b) sikandar lodi
- (c) firoz shah tuglhaq
- (d) md. bin tuglhaq

Q90. most abundant lipid in cell membrane is

- (a) phospholipid
- (b) glycolipid
- (c) steroid
- (d) cutin

Q91. Hirakund Dam is built on

- (a) Narmada
- (b) Mahanadi
- (c) Godavari
- (d) Chambal

Q92. Son, Narmada and Mahanadi originate from

- (a) Palamau hills
- (b) Amarkantak
- (c) Eastern Ghat
- (d) Aravalli

Q93. Which river is flowing through fault?

- (a) Narmada
- (b) Son
- (c) Godavari
- (d) Cauvery

Q94. 'Pat' region is situated in

- (a) Bihar
- (b) Jharkhand
- (c) Madhya Pradesh
- (d) Meghalaya



- Q95.** Kilimanjaro is a
- (a) Igneous mountain
 - (b) Island
 - (c) Peak
 - (d) River

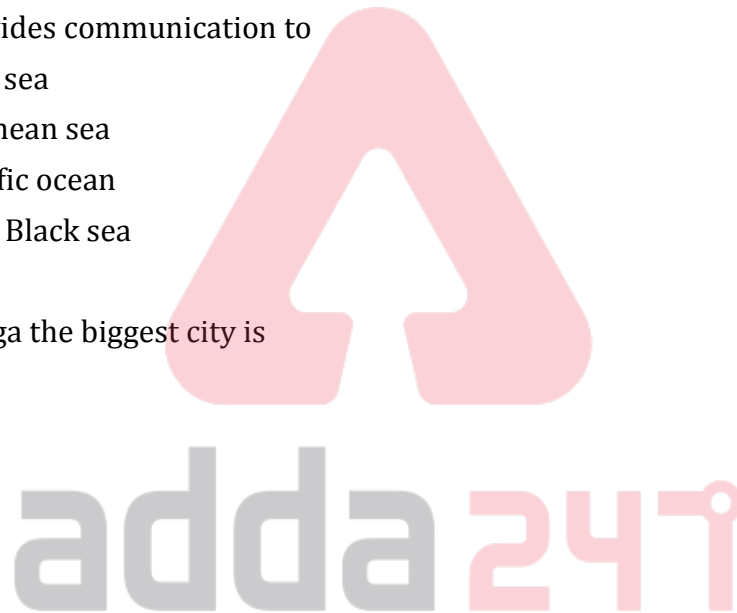
- Q96.** International Date Line crosses over
- (a) Africa
 - (b) Asia
 - (c) Pacific Ocean
 - (d) Atlantic Ocean

- Q97.** Mulucca Strait Provides communication to
- (a) Indian ocean to china sea
 - (b) Red sea to Mediterranean sea
 - (c) Atlantic ocean to Pacific ocean
 - (d) Mediterranean sea to Black sea

- Q98.** On the bank of Ganga the biggest city is
- (a) Varanasi
 - (b) Patna
 - (c) Kanpur
 - (d) Allahabad

- Q99.** On which river Shivasamudram Waterfall is situated?
- (a) Cauveri
 - (b) Krishna
 - (c) Godavari
 - (d) Mahanadi

- Q100.** Paradip is situated on
- (a) Kerela
 - (b) Maharashtra
 - (c) Odisha
 - (d) Andhra Pradesh



Solutions

S1. Ans.(d)

Sol.

- Plaster of Paris is a hard white substance made by the addition of water to powdered and partly dehydrated gypsum.
- It is used for holding broken bones.

S2. Ans.(c)

Sol.

- Crabs belong to category crustaceans of Phylum arthropoda .
- Crabs can live in oceans , fresh water , and on land .
- The body is covered with thick exoskeleton with four pair or eight legs.

S3. Ans.(a)

Sol.

- Wings of a bird's and insects have the coating of Waxes , which helps in resistance of water and easy flight of bird's and insects.

S4. Ans.(b)

Sol.

- Frozen foods was discovered by American entrepreneur Clarence Birdseye.

S5. Ans.(b)

Sol.

- Gametes are the reproductive cells present in an organisms.
- Female gametes are called as Ova.
- Ova are the haploid cells formed by the process of oogenesis.

S6. Ans.(c)

Sol.

- Vitamin D causes the deficiency disease named as rickets and osteomalacia.
- Rickets leads to the bone deformation i.e. bent in the limbs of children's.

S7. Ans.(a)

Sol.

- The uterus is a major female hormone responsive reproductive sex organ of human's.
- Uterus is single in female.
- The function of the uterus is to receive a fertilized ovum.

S8. Ans.(b)

Sol.

- Excretion is the process in living organisms which eliminate the waste matter.
- Kidney is an excretory organ of the mammals which remove excess and unnecessary material from the body fluids.

S9. Ans.(a)

Sol.

- The ovary is an ovum producing reproductive organ, found in double pairs in the female. Each ovary is located on the lower side of abdomen.

S10. Ans.(b)

Sol.

- Keratin is a fibrous structural protein found in hairs.
- It is Insoluble in water and protects epithelial cells from damage or stress.

S11. Ans.(c)

Sol.

- Heavy water is D₂O. (Deuterium oxide).

S12. Ans.(b)

Sol.

- Chile saltpeter is the common name of Sodium nitrate.

S13. Ans.(c)

S14. Ans.(b)

Sol.

- Sewage treatment involves three stages.
- Sludge is a semi-solid residue produced in first step during treatment of sewage and waste water.

S15. Ans.(c)

Sol.

- Sodium chloride or table salt occurs in nature as the mineral Halite.

S16. Ans.(b)

Sol.

- Chemical symbol of iron is Fe.
- Atomic number is 26.

S17. Ans.(c)

Sol.

- Electrons revolve around the nucleus in circular paths of fixed energy are called stationary States or orbits.

S18. Ans.(b)

Sol.

- Atomic number is a whole number because it is equal to number of protons present in the nucleus.

S19. Ans.(d)

Sol.

- When an acid reacts with base, then Water and salt are formed as product.
- This reaction is called as “Neutralisation Reaction”.

S20. Ans.(a)

Sol.

- Water has the maximum density.

S21. Ans.(a)

Sol. γ – rays are the most penetrating rays

β – Particle are moderately penetrating and

α – particles are least penetrating

S22. Ans.(b)

Sol. The distance between person and his image is $60 \text{ cm} \times 2 = 1.2 \text{ m}$

S23. Ans.(b)

Sol. Gravitational force is attractive only whereas the electric and magnetic forces are attractive as well as repulsive.

S24. Ans.(b)

Sol. Creation of something from nothing is against the law of conservation of mass energy.

S25. Ans.(b)

Sol.

Sol. Centripetal force = $\frac{mv^2}{r}$

Given that,

Mass of proton = 2000 \times mass of electron

Radius and speed is same for both proton and electron

\therefore Centripetal force \propto mass

Since mass of proton is 2000 times that of mass of electron, hence the centripetal force required by proton is about 2000 times more than that required by the electron.

S26. Ans.(a)

S27. Ans.(d)

S28. Ans.(d)

Sol. Manganic is a trademarked name for an alloy of typically 86% copper, 12% manganese, and 2% nickel. Constantan is a copper-nickel alloy usually consisting of 55% copper and 45% nickel. Its main feature is its resistivity which is constant over a wide range of temperatures. Other alloys with similarly low temperature coefficients are manganic.

S29. Ans.(b)

Sol. Graphite is used in making lead pencils due to its ability to leave marks on paper and other objects. Pencil lead is most commonly a mix of powdered graphite and clay.

S30. Ans.(b)

Sol. Sodium metal should be stored in kerosene oil. Sodium is a very reactive metal. It is kept in kerosene to prevent it from coming in contact with oxygen and moisture. If this happens, it will react with the moisture present in air and form sodium hydroxide. This is a strongly exothermic reaction, and lot of heat is generated. Thus, sodium is kept under kerosene.

S31. Ans.(a)

S32. Ans.(c)

S33. Ans.(c)

S34. Ans.(c)

S35. Ans.(a)

S36. Ans.(d)

S37. Ans.(d)

S38. Ans.(b)

S39. Ans.(c)

S40. Ans.(b)

S41. Ans.(a)

S42. Ans.(a)

S43. Ans.(b)

S44. Ans.(a)

S45. Ans.(b & c)

S46. Ans.(a)

S47. Ans.(a)

S48. Ans.(c)

S49. Ans.(b)

S50. Ans.(b)



S51. Ans.(a)

S52. Ans.(b)

S53. Ans.(b)

S54. Ans.(c)

S55. Ans.(d)

S56. Ans.(d)

S57. Ans.(c)

S58. Ans.(d)

S59. Ans.(b)

S60. Ans.(b)

S61. Ans.(d)

S62. Ans.(d)

S63. Ans.(b)

S64. Ans.(a)

S65. Ans.(c)

S66. Ans.(c)

S67. Ans.(c)

S68. Ans.(b)

S69. Ans.(c)

S70. Ans.(c)

S71. Ans.(d)

S72. Ans.(b)

S73. Ans.(C)

S74. Ans.(c)

S75. Ans.(d)



- S76. Ans.(c)
S77. Ans.(a)
S78. Ans.(c)
S79. Ans.(b)
S80. Ans.(b)
S81. Ans.(b)
S82. Ans.(a)
S83. Ans.(a)
S84. Ans.(d)
S85. Ans.(b)
S86. Ans.(d)
S87. Ans.(a)
S88. Ans.(d)
S89. Ans.(d)
S90. Ans.(a)
S91. Ans.(b)
S92. Ans.(b)
S93. Ans.(a)
S94. Ans.(b)
S95. Ans.(c)
S96. Ans.(c)
S97. Ans.(a)
S98. Ans.(c)
S99. Ans.(a)
S100. Ans.(c)

