

1. The twenty first Century started on January 1 in the year  
 1). 2001                      2). 2000                      3). 2101                      4). 2100  
 Ans: 1
  
2. Which sea is referred to in our National Anthem?  
 1). Bay of Bengal              2). Indian Ocean              3). Arabian Sea              4) None of these  
 Ans:1
  
3. An artificial earth satellite receives energy in the atmosphere from –  
 1). Its own batteries  
 2). The sun  
 3). Its momentum by virtue of its motion  
 4). The ether  
 Ans: 2 (Use of solar cells)
  
4. Filariasis is also known as –  
 1) Elephantiasis                      2). Rubella  
 3). Sleeping sickness    4). Common cold  
 Ans: 1
  
5. Infected surgical instruments can cause –  
 1). common cold              2). measles                      3). AIDS                      4). Cancer  
 Ans: 3
  
6. Calsiferol is –  
 1). Vitamin A                      2). Vitamin D                      3). Vitamin E                      4). Vitamin K  
 Ans: 2
  
7. Enzymes are also called –  
 1). producers                      2). digesters                      3). biocatalysts                      4). Accelerators  
 Ans: 3
  
8. Filaria is a disease which affects the –  
 1). heart                      2). kidneys                      3).Lymph glands                      4). Brain  
 Ans: 3
  
9. Diseases that are prevalent during a particular period are called –  
 1). epidemic                      2). endemic                      3), pandemic                      4). Concomitant



18. Sugars are converted in the liver into –

- 1). Ptyalin  
 2). Glycogen  
 3). carbon dioxide and water  
 4). Monosaccharides

Ans: 2

19. Based on the relationship of the two given words, find out the correct pair of the word.

Cricket is to Bat as Hockey is to :

- 1). Huff  
 2). Gambit  
 3). Link  
 4). Stick

Ans: 4

20. Which of the following is not a communicable disease?

- 1). Anthrax  
 2). Typhoid  
 3). Cholera  
 4). Cancer

Ans: 4

21. What is the next number in the series? 9, 15, 23, 33 ?

- 1). 44  
 2). 36  
 3). 39  
 4). 45

Ans: 4( the successive numbers increase by 6, 8, 10 and therefore 12 )

22. Skin is related to Dermatologist, in the same way infant is related to

- 1). Biologist  
 2). Gynaecologist  
 3). Pathologist  
 4). Paediatrician

Ans: 4

23. Based on the relationship of the two given words, find out the correct pair of the word, Sofa is to Sit as Stove is to :

- 1) Cook  
 2). Burn  
 3). Oil  
 4). Fire

Ans: 1

24. Which animal's milk is the most balanced in dietary value?

- 1). Cow  
 2). Goat  
 3). Buffalo  
 4). Yak

Ans: 1

25. Petroleum is found in -

- 1). Igneous rocks  
 2). sedimentary rocks  
 3). metamorphic rocks  
 4). Marshy

Ans: 2

26. Isotopes are elements belonging to
- 1). the same element
  - 2). different elements
  - 3). combination of elements
  - 4). Elements having the same mass number

Ans: 1

27. The emission of carbon monoxide in automobile exhaust will be maximum when the vehicle is

- 1). Idling
- 2). Cruising at low speed
- 3). Cruising at high speed
- 4). Acceleratin

Ans: 1

28. The element present in the largest amounts in rocks and minerals is -

- 1). hydrogen
- 2). silicon
- 3). carbon
- 4). Gold

Ans: 2

29. Diamond is chemically

- 1). a mixture of metal carbonates
- 2). Carbon, i.e., Allotrope of carbon
- 3). a pure form of sand
- 4). a mixture calcium and magnesium phosphates

Ans: 2

30. The emission power (radiation) of a body depends upon

- 1) Temperature
- 2). Wave length
- 3). Physical nature
- 4). All the above

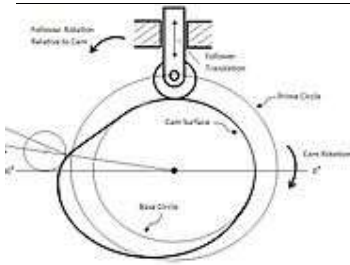
Ans: 1

31. A cam is a

- 1). reciprocating body
- 2). Oscillating body
- 3 a rotating or sliding piece in a mechanical linkage
- 4). May be any one of the above

Ans: 3

A cam is a **rotating or sliding piece in a mechanical linkage** used especially in transforming rotary motion into linear motion.



<https://en.wikipedia.org/wiki/Cam>

32. The matter contained in a body, is called  
 1). Impulsive force.      2). **Mass.**                      3). Weight.                      4). Momentum.

**Ans: 2**

33. Which of these combination is used in making 'Steel'?  
 1). **Iron, Chromium, Nickel,**                      2). Iron & carbon  
 3). Chromium & Copper                      4). Bronze & Tin

**Ans: 1**

34. Ornamental gold is —  
 1). **gold alloyed with copper**                      2). Gold alloyed with nickel  
 3). gold alloyed with zinc                      4). Gold alloyed with chromium

**Ans: 1 (gold:copper:: 22:2)**

35. With in elastic limit, Hook's stress-strain law related to structural body is  
 1). **directly proportional.**                      2). Spherical.  
 3). parabolic.                      4). inversely proportional

**Ans: 1**

36. Newton's stress-strain law related to viscous fluid is  
 1). **directly proportional.**                      2). Spherical.  
 3). parabolic.                      4). inversely proportional

**Ans: 1**

37. The transfer of heat between a solid boundary and a fluid takes place by  
 1). Conduction.                      2). Conduction and Convection.  
 3). **Convection**                      4). Conduction and mass transfer.

**Ans: 3**

38. Which of the following material has the best conductivity?

- 1). Copper  
2). Aluminium  
3). Cadmium copper 4). Galvanized steel

Ans: 1

39. When reverse bias is applied to a junction diode -

- 1). Potential barrier is lowered  
2). Potential barrier is raised  
3). All of the above  
4). None of the above

Ans: 2

40. Radar can be used to guide

- 1). Ships  
2). Space vehicles, flights  
3). Surgical operations  
4). Road vehicles

Ans: 2

41. Bronze is an alloy of –

- 1). Copper and Tin  
2). Copper and Zinc  
3). Zinc and Tin  
4). None of these

Ans: 1

42. Which one of the following pair of contacting surfaces have the least static coefficient of friction?

- 1). wood on wood  
2). Stone on wood  
3). metal on metal  
4). Leather on metal.

Ans: 3

43. Insulating material for cables should have

- 1). high resistivity.  
2). high di-electric strength.  
3). low permittivity.  
4). All of the above.

Ans: 4

44. Reheating of steam in a Steam turbine

- 1) Increases the thermal efficiency.  
2). increases the compressor work  
3). increases the turbine work  
4). Decreases the thermal efficiency.

Ans: 1

45. In a nuclear explosion, the energy is released in the form of  
 1). kinetic energy      2). Electrical energy  
 3). potential energy      4). Heat energy and kinetic energy of fission products

Ans: 4

46. Satellite power requirement is provided through ---  
 1). Solar cells      2). Dry cells  
 3). Nickel cadmium cells      4). Lead-acid batteries

Ans: 1

47. What is the normal pulse rate?  
 1). 70-80 per minute      2). 2 beats per second  
 3). 80-90 per minute      4). 97 beats per minute

Ans: 1

48. What care is most important to save the life of a child suffering from acute diarrhea?  
 1). keep away the child from the gatherings of people  
 2). do not allow, mosquitoes to bite  
 3). do not give water

4). do not allow the body to a dehydrate

Ans: 4

49. If the rate at which work done by an engine increases, the power of the engine –  
 1). decreases      2). Increases      3). Does not change      4). Doubles

Ans: 2

50. The change of state of vapour into liquid is called as  
 1). Condensation      2). Sublimation      3). Vapourisation      4). None of these

Ans: 1

51. To control the chain reaction ... control rods are used in a nuclear reactor  
 1). Carbon rods      2). Uranium rods  
 3). Cadmium Rods      4). None of these

Ans: 3

52. Collect is to distribute as earn is to ...,  
 1). store      2). bank      3). Enjoy      4) spend





61. The brittle form of iron is -  
 1). wrought iron      2). **Cast iron**      3). Steel      4). None of these

**Ans: 2**

62. The acid present in vinegar is –  
 1). Formic acid      2). **Acetic acid**      3). Oxalic acid      4). Carbonic acid

**Ans: 2**

63. In the electrolysis of alumina, alumina is mixed with  
 1). Felspar      2). **Cryolite**      3). Alunite      4). Bauxite

**Ans: 2**

64. The metal that occurs in the Free State is –  
 1). Aluminium      2). Iron      3). Sodium      4). **Gold**

**Ans: 4**

65. Functional group of an alcohol is –  
 1) **–OH**      2). -----CHO      3). ----CO      4). -----COOH

**Ans: 1**

66. Which country is the largest processor of diamonds?  
 1). Australia      2). U.S.A      3). **India**      4). Sweden

**Ans: 3**

67. Laptop is a –  
 1). Keyboard      2). **Computer**      3). Music System      4). Game

**Ans: 2**

68. Lactic acid is present in –  
 1). Apples      2). Grapes      3) **Milk**      4). Oil

**Ans: 3**

69. What is the purest form of Gold?  
 1). 18 Carat      2). 22 Carat      3). **24 Carat**      4). 26 Carat

**Ans: 3**

70. Which element is used for making the filament of the electric bulb?  
 1). Copper                      2). Iron                      3). Lead                      4) Tungsten  
 Ans: 4 (now incandescent lamps/bulbs are phased out)
71. Which law is applicable to the substances in the gaseous state?  
 1). Law of multiple proportions                      2). Law of constant proportions  
 3). Laws conservation of mass                      4) Gay-Lussac's law of gaseous volumes  
 Ans: 4
72. Razor blades are made from –  
 1). Wrought iron                      2). Cast iron                      3). Tempered steel 4). Mild steel  
 Ans: 3
73. The nature of Graphite is  
 1). Slippery                      2). Hard                      3). Liquid                      4). None of these  
 Ans: 1(used in lubrication(solid) purpose)
74. Which unit is used to measure the purity of gold?  
 1). Grams                      2). Pound                      3) Carats                      4). Ounce  
 Ans: 3
75. One of the properties of metals is that -  
 1), They are ductile  
 2). They do not react with acids  
 3). They are poor conductors of heat  
 4). They are found at ordinary temperatures in all the 3 states  
 Ans: 1
76. The temperature of human body  
 1)98.4°C                      2) 36.9°C                      3). 100°C                      4). 40°C  
 Ans: 2
77. A ball on the ground is an example of -  
 1). Stable equilibrium                      2). Unstable equilibrium  
 3)Neutral equilibrium                      4).None of these  
 Ans: 3



Ans: 2

86. Which of the following is not an alloy?

- 1). Gun metal                      2). Bronze                      3). Duralumin                      4) Ferrocene

Ans: 4 (Ferrocene is an organometallic compound with the formula  $Fe_2$ . The molecule consists of two cyclopentadienyl rings bound on opposite sides of a central iron atom. It is an orange solid with a camphor-like odor, that sublimates above room temperature, and is soluble in most organic solvents.  
<https://en.wikipedia.org/wiki/Ferrocene#:~:text=Ferrocene>)

87. Stainless steel is an alloy of iron and -

- 1). Chromium or chromium and nickel    2). Chromium and tungsten  
3). Nickel, manganese and chromium    4). Nickel, cobalt and manganese

Ans: 1

88. The property by virtue of which metals can be beaten into thin sheets is known as

- 1). Ductility                      2). Malleability                      3). Conductivity                      4). Density

Ans: 2

89. The property by virtue of which metals can be drawn into wires is known as

- 1). Ductility                      2). Malleability                      3). Conductivity                      4). Density

Ans: 1

90. Bauxite is an ore of –

- 1). Zinc                      2). Aluminium                      3). Iron                      4). Manganese

Ans: 2

91. Which metal finds use in electro-magnets?

- 1). Soft Iron                      2). Copper                      3). Chromium                      4). Nickel

Ans: 1

92. Deuterium oxide is known as –

- 1). Heavy water                      2). Heavy hydrogen  
3). Tear gas                      4). Laughing gas

Ans: 1

93. Iron obtained from blast furnace is –

- 1). mild steel                      2). Pig iron                      3). Structural steel    4). Wrought iron

Ans: 2

94. In which state in India is Chilika Lake?

- 1) Assam                      2). Sikkim                      3). Rajasthan                      4). Odissa

Ans: 4

95. What is 10 millimetre equal to?

- 1). one Decametre                      2). One Metre                      3). Decimetre                      4). one Centimetre

Ans: 4

96. The process of changing solid to gas without its liquid form is called as

- 1). Dilution                      2). Evaporation                      3). Sublimation                      4). Distillation

Ans: 3

97. Carbon content of steel is –

- 1).0.15 to 1.5%                      2). 0.2 to 0.5%                      3). 1.5 to 3%                      4). 0.75 to 1.5%

Ans: 1

98. The flux used in the extraction of iron is –

- 1). Lime stone                      2). Graphite                      3). Sand                      4). Quartz

Ans: 1

99. Which is the heaviest metal?

- 1). Platinum                      2). Silver                      3). Uranium                      4). Osmium

Ans: 4 (Its density is 22.59 gm/cm<sup>3</sup>, platinum 21.45 gm/cm<sup>3</sup> and iridium 22.56 gm/cm<sup>3</sup>)

100. Which town in Tamil Nadu is the seat of Sankaracharya?

- 1). Madurai                      2). Kanchipuram                      3). Mamallpurm                      4).  
Kanniyakumari

Ans:

2