

X STANDARD

QUESTIONS' BANK

FOR MESSAGES ONLY

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SCIENCE MULTIPLE CHOICE QUESTIONS

Part-2

301. The escape velocity of a rocket depends upon the weight of:
A. the rocket B. the satellite it launches C. both rocket and satellite D. neither rocket nor satellite
302. Rockets can fly in vacuum due to the presence of :
A. propellants B. payload C. oxidant D. exhaust gas
303. Ice at 0°C is more effective in cooling than water at 0°C because
A. Ice melts at 0°C B. Ice take up heat to melt
C. Water boils at 100°C D. Water freezes at 0°C
304. These are not required in a diesel engine
A. spark plug and carburettor B. carburettor and crank shaft
C. spark plug and crank shaft D. spark plug and injection pump
305. An engine "P" converts 1800 KJ of heat into 630 J of work. Another engine "Q" has an efficiency of 40%. The engine that shows more efficiency is :
A. P B. Both P and Q C. Q D. neither P nor Q
306. A fault in the carburettor affects the following stroke :
A. Intake B. Compression C. Power D. Exhaust
307. Rainbow is formed due to the dispersion of light by:
A. Oxygen molecule B. dust particles C. Nitrogen molecule D. water molecule
308. A monochromatic light beam on passing through a prism is :
A. deviated B. reflected C. dispersed D. polarized
309. C.V.Raman found that, when a beam of monochromatic light was passed through benzene, the scattered light was
A. monochromatic B. non-monochromatic
C. of lower-frequency D. of both lower and higher frequency
310. Dispersion in a glass prism takes place, because:
A. prism is transparent B. double refraction takes place
C. refractive index varies with colours D. white light is made up several colours
311. A device which uses ultra sonic waves to measure the distance, direction and speed of underwater objects is
A. ultrasound scanner B. Sonar C. transmitter D. detector
312. Velocity of sound on the surface of moon will be
A. 340 m/s B. 340×6 m/s C. $340/6$ ms D. 0
313. The relationship between mass and luminosity is used to determine the mass of
A. binary stars like Sirius B. Single stars like Sun
C. neither binary nor single stars D. both binary and single stars
314. Key assumption of the Big Bang Theory is that the universe is
A. expanding B. closed C. open D. collapsing
315. If you are a doctor and want to perform surgery, which of the following instrument would you select to ease your work ?
A. radar gun B. sonar C. ultrasound scanner D. spectroscope
316. Doppler effect in sound is observed as a change in it's:

A. pitch B. Velocity C. frequency D. amplitude

317. Weight of an object on a planet will be :

A. different at different places B. same at different places
C. different at the same place D. changing with time

318. An atom is made up of these fundamental particles

A. Proton, neutron, nucleon B. Proton, electron, nuclide
C. proton, neutron, electron D. positron, electron, neutron

319. Solar cells work on the principle of :

A. Photo electricity B. conductivity of semi conductors
C. doping of semiconductors D. stimulated emission

320. Approximate mass number of a neutron in A.m.u is :A. 10 B. 1.8 C. 1.0 D. 1.008

321. Among the isotopes carbon –11,12, 13 &14 the reason for choosing C-14 for ‘Carbon dating’ is:

A. C-14 is the heaviest B. It is the most abundantly available
C. It is stable D. It under goes spontaneous nuclear changes

322. Pick out an example for fusion reaction from the following :

A. ${}_{13}\text{Al}_{27} + {}_2\text{He}_4 \rightarrow {}_{15}\text{P}_{30} + {}_0\text{n}_1$ B. ${}_{92}\text{P}_{235} + {}_0\text{n}_1 \rightarrow {}_{54}\text{Xe}_{139} + {}_{38}\text{Sr}_{95} +$

energy

C. ${}_1\text{H}_1 + {}_1\text{H}_3 \rightarrow {}_2\text{He}_4 + {}_0\text{n}_1 + \text{energy}$ D. ${}_{94}\text{Pu}_{238} \rightarrow {}_{92}\text{U}_{234} + {}_2\text{He}_4$

323. In nuclear fission 1 micro gram of ${}_{92}\text{U}_{235}$ disappears. The velocity of light is

$3 \times 10^{10} \text{cm/sec}$.

The energy in this process is

A. 9×10^{10} ergs B. 9×10^{14} ergs C. 9×10^{20} ergs D. Zero as matter is

indestructible

324. The inside of a solar cooker is painted black so that the solar radiation gets :

A. reflected B. absorbed C. transmitted D. trapped

325. Energy crisis is mainly due to :

A. Shortage of renewable sources of energy B. the increase in the public transport system
C. the increase in scientific advancement and better quality of life
D. the ever increasing demand for energy.

326. Which one of the following you can do to save energy, without affecting the quality of your life :

A. Going to the school by bus B. stop using warm water for taking bath
C. stop studying after sun set D. replacing incandescent lamps by fluorescent

lamps

327. The biggest source of metal on the earth is

A. Earth's interior B. oceans C. earth's crust D. fresh water lakes

328. Sea contains metals in the form of

A. soluble salts B. insoluble salts C. precipitate salts D. floating salts

329. Bells are made of metal because of the following property

A. Malleability B. Ductility C. Conductivity D. Sonority

330. Four different metals are taken in four different test tubes and concentrated sulphuric acid is

Poured in to each of them. In one of the test tubes the solution turns blue then the

metal is

A. Zn B. Ni C. Co D. Cu

331. The atomic number of copper is 29, its electronic configuration is
 A. $1s^2, 2s^2, 3p^6, 3s^2, 3d^{10}, 3p^7$ B. $1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 3d^{10}, 4s^1$
 C. $1s^2, 2s^2, 2p^6, 3s^2, 3d^{10}, 3p^5, 4s^2$ D. $1s^2, 2s^2, 2p^6, 3s^2, 4s^2, 3d^9, 3p^6$
332. In the extraction of silicon from quartz Magnesium powder is used as
 A. oxidizing agent B. reducing agent
 C. neither oxidizing nor reducing agent D. hydrolysing agent
333. Which property of Invar steel is used in making pendulum ?
 A. Tensile strength B. high melting point
 C. low melting point D. very low co-efficient of linear expansion
334. The chemical name of quartz is
 A. silicon carbide B. silicon dioxide C. Silicon chloride D. Silicon carbonate
335. At absolute temperature the four valence electrons of silicon are bound by :
 A. electrovalent bond B. covalent bond C. metallic bond D. non-metallic bond
336. Silicon can be made to become intrinsic semi conductor by
 A. applying pressure B. applying heat C. passing electricity D. keeping it in magnetic field
337. Aliphatic hydrocarbons of general formula $C_n H_{2n}$ are called :
 A. Alkenes B. Alkanes C. Carbocyclic hydrocarbons D. Aromatic hydrocarbons
338. A sample of hard water forms yellow stains on clothes when used for washing. The salts causing yellow stains are salts of
 A. Iron B. Calcium C. Magnesium D. Sodium
339. Water is to be sterilized for drinking purpose without using any chemicals, this can be done by
 using, A. UV rays B. visible light C. Radio waves D. ultrasonic waves
340. An engineer wants to design an engine to convert 800 kJ of heat into 840kJ of useful mechanical work. The correct statement related to the above engine is that
 A. It is less efficient B. It is more efficient C. It cannot be designed D. It is 100% efficient.
341. In a nuclear reactor, the numbers of cadmium rods used are less than the required number, then
 one of the possibilities is
 A. the reactor may explode B. the chain reaction stops
 C. number of fissions will decrease D. the number of neutrons decrease
342. In soap industry, the chemist forgets to add sodium chloride, during soap manufacturing, the possible effect is
 A. soap cannot be easily separated B. chemical composition of soap changes
 C. soap will not get required colour D. the solubility of soap decreases
343. Using sodium hydroxide, as one of the raw materials it is possible to prepare
 A. soaps & detergents B. cement & ceramics C. glass & plastics D. cement & glass
344. Unstability of a nucleus is because of
 A. high proton-neutron ratio B. high proton-electron ratio
 C. high electron-neutron ratio D. low proton-electron ratio

345. Silicon is an insulator at absolute zero, because
 A. the covalent bond is broken B. the electron becomes delocalised
 C. all the electrons are bound to nucleus D. it is an intrinsic semiconductor
346. Borosilicate glass is used in making laboratory equipments because,
 A. it has high refractive index B. it is highly transparent
 C. it can withstand temperature fluctuations D. it fuses easily at low temperature
347. In a centrifuge, the particles of larger density,
 A. move away from the axis B. move towards the axis
 C. gets mixed with lighter particles D. remain suspended
348. If the distance of the sun from the earth would have been twice the existing value then, the time taken by light to reach earth would be about
 A. 4 minutes B. 8 minutes C. 16 minutes D. 80 seconds
349. When composite light is passed through a prism the colour in the spectrum with least deviation is
 A. red B. violet C. blue D. green
350. The metallic salt that comes in the way of forming lather with soap water is
 A. magnesium chloride B. sodium chloride C. sodium carbonate D. aluminium chloride.
351. Chloroprene is used in A. medical articles B. films C. gaskets D. coating vessels
352. In intrinsic semi-conductors
 A. number of holes are more than charges B. both holes and charges are equal
 C. number of holes are less than charges D. only charges are present
353. The functional group in toluene is A. OH B. CHO C. NH₂ D. CH₃
354. The device used to obtain a pure spectrum of composite light is
 A. Telescope B. Collimeter C. Prism D. Spectroscope
355. The star of highest apparent brightness among the following is
 A. Magnitude -1 B. Magnitude 100 C. Magnitude 1 D. Magnitude 0
356. The main energy source for artificial satellites is
 A. solar heaters B. solar furnace C. solar cells D. solar plant
357. An example for denitrifying bacteria is
 A. rhizobium B. nitrosomonas C. nitrobacter D. pseudomonas
358. A large part of the body weight in man is due to
 A. bone tissue B. cartilage tissue C. nervous tissue D. blood tissue
359. The animal tissue responsible to store fat as reserve food is
 A. Areolar tissue B. Adipose tissue C. Reticular tissue D. Cartilage tissue
360. One of the hormones secreted by adrenal cortex is
 A. adrenalin B. insulin C. cortisone D. thyroxin
361. The part of the brain that regulates body temperature, water balance, appetite and sleep is
 A. cerebrum B. cerebellum C. thalamus D. hypothalamus
362. Ravi is a regular dialysis patient, he may get infected with
 A. brain fever B. tuberculosis C. AIDS D. Hepatitis-B
363. The algae having chlorophyll a and c along with xanthophylls belongs to
 A. red algae B. green algae C. brown algae D. yellow algae
364. Fleming's right hand rule is also called

A. Screw Rule B. Motor Rule C. Thumb rule D. Dynamo rule

365. A photon is a A. Quantum of light energy B. Neutral particle
C. Positively charged particle D. Negatively charged
particle

366. If a semi-conductor is p-type, then which of the following impurity can be added to it
A. Germanium B. Phosphorus C. Boron D. Silicon

367. A merry-go-round has a radius 3m and completes a revolution in 3 seconds, its
acceleration is
A. $4\pi^2$ B. $2\pi/3$ C. $4\pi^2/3$ D. $4\pi/3$

368. The planets move in elliptical orbits around the sun, with sun at one focus. This is
A. Ist Law of Newton B. Hubble's Law C. Kepler's Law D. IIIrd Law of Newton

369. The minimum velocity which is required for a body to escape the gravitational
attraction of the
earth is about A. 11.2 m/s B. 11.2 km/s C. 11.2 m/h D. 9.8 m/s

370. Which of the following has a carburettor?
A. Steam engine B. diesel engine C. diesel & petrol engine D. petrol engine

371. In human being, the ratio between the weight of the spinal cord and the weight of the
brain A. 8 : 1 B. 1 : 8 C. 55 : 1 D. 1 : 55

372. Which of the following is not a quality guarantee mark for food products?
A. FPO B. AGMARK C. FPA D. ISI

373. The colour of the ray which comes out when a red ray of light is passed through a
prism is A. green B. white C. red D. yellow

374. Which of these animals can hear ultrasound?
A. birds B. man C. bat D. ant

375. The largest unit used to measure the stellar distance is
A. Kilometer B. parsec C. astronomical unit D. light year

376. A positron is represented as A. ${}_{-1}n^0$ B. ${}_{+1}n^0$ C. ${}_{+1}e^0$ D. ${}_{-1}e^0$

377. Heavy water is A. deuterium oxide B. tritium C. deuterium D.
hydrogen peroxide

378. We receive solar radiation in the form of
A. light B. sound C. heat D. heat and light

379. When fluorescent lamp is used in the place of a bulb ___ of energy is saved
A. 40% B. 20% C. 60% D. 70%

380. Chemical formula of Haematite is
A. Fe_3O_4 B. Fe_2O_3 C. Fe_3O_4 D. Fe_3O_2

381. The common name of sodium silicate is
A. dry glass B. waterglass C. permutite D. carborandum

382. CNG stands for
A. Compressed Number Gas B. Compressed Natural Gas
C. Contracted Natural Gas D. Compressed Neon Gas

383. The gasket of a pressure cooker is made up of
A. Teflon B. Chloroprene C. Polythene D. Thiokol

384. A sample of hard water on boiling produces carbon dioxide. The salt present in the
hard water is
A. Bicarbonate B. chloride C. sulphate D. carbonate

385. The molecular formula of Stearic Acid is
A. $C_{17}H_{35}COOH$ B. $C_{17}H_{33}COOH$ C. $C_{17}H_{31}COOH$ D. $C_{17}H_{29}COOH$

386. A limbless amphibian is
 A. frog B. toad C. salamander D. Ichthyophis
387. The longest bone in the human body is
 A. hand bone B. thigh bone C. ear bone D. nose bone
388. A gland embedded in another gland is
 A. parathyroid B. Pituitary C. gonad D. adrenal
389. Which one of the following is not a quality guarantee mark for good products?
 A. FPO B. AGMARK C. FPA D. ISI
390. The dopant used in p-type semiconductors is
 A. Aluminium B. Phosphorus C. Arsenic D. Antimony
391. In AC dynamo, the free ends of the copper wire are connected to two full copper rings called
 A. Armature B. Split-rings C. Slip-rings D. Brushes
392. The depletion of ozone layer is harmful to us, because, the ozone layer acts as a shield against
 A. Ultraviolet Rays B. Infrared rays C. Gamma rays D. X-rays
393. In a diode, the p-side represents a/an A. Base B. Anode C. Cathode D. Junction
394. The device used to separate the viruses in a liquid medium is
 A. Spectroscope B. Ultrasound scanner C. SONAR D. Centrifuge
395. The receptor cells which are sensitive to bright light are
 a) rods b) cones c) fovea d) blind spot
396. Molecular formula of ethane is a) C_2H_2 b) C_2H_4 c) C_2H_6 d) CH_4
397. General formula for alkanes is a) C_nH_{2n+2} b) C_nH_{2n-2} c) C_nH_{2n} d) C_nH_n
398. In an experiment of photoelectric effect the number of photoelectrons has to be increased without
 changing their frequency. The suitable step to be taken about the incident radiation for this is
 (A) increasing intensity without changing frequency (B) increase both frequency and intensity
 (C) increase frequency without increasing intensity (D) increasing only frequency.
399. To distinguish between real gems and artificial gems a merchant may use which of the following radiations ?
 (A) Infrared rays (B) γ -rays (C) X-rays (D) Ultraviolet rays.
400. The function of carburettor is to allow
 (A) only petrol into the engine (B) only air into the engine
 (C) mixture of petrol and air into the engine (D) diesel and air into the engine.
401. Which of the following engines is more efficient ?
- | Heat utilised | Work done |
|-------------------|----------------|
| (A) 80 kilojoules | 32 kilojoules |
| (B) 60 kilojoules | 12 kilojoules |
| (C) 50 kilojoules | 25 kilojoules |
| (D) 90 kilojoules | 27 kilojoules. |
402. In echo cardiography (ECG) the frequency of the sound waves used is
 (A) 20 hertz to 20 kilohertz (B) 20 hertz to 2 kilohertz
 (C) beyond 20 kilohertz (D) below 20 hertz.
403. In Kaiga Atomic Power reactor plant, the fuel that can be used is

(A) Coal (B) Uranium (C) Petrol (D) Natural gas.

404. $C_{10}H_{22}$ Temperature $C_5H_{12} + x$

If this equation is considered as an experiment of cracking, the compound in the place of x is

(A) C_5H_{10} (B) C_5H_{12} (C) C_5H_8 (D) C_5H_5

405. Polymer used to make gasket of pressure cooker is

(A) Polythene (B) Nylon (C) Teflon (D) Thiokol.

406. The common raw material used in the preparation of soap and detergent is

(A) sulphuric acid (B) sodium hydroxide (C) stearic acid (D) long chain hydrocarbons.

407. Detergents are more efficient than soaps in cleaning, yet you have to limit the use of detergents

Because (A) they are costly (B) they are not eco-friendly
(C) their production cost is high (D) they produce scum in hard water.

408. Hepatitis-B does not spread through

(A) contaminated food (B) mosquito bite
(C) sexual contact with infected person (D) sharing unsterilized needles.

409. Dropsy : Argemone oil :: Minamata :

(A) Methyl cyanide (B) Methyl bromide (C) Methyl chloride (D) Methyl mercury.

410. Saplings developed during tissue culture are exclusively the product of

(A) Mitosis (B) Meiosis (C) Karyokinesis (D) Cytokinesis.

411. Cotton clothes are basically cells of

(A) Cambium (B) Collenchyma (C) Sclerenchyma (D) Scleride.

412. While purchasing a sealed packet of ghee, one should look for which mark ?

(A) ISI (B) AGMARK (C) FPO (D) ISO.

413. A phenomenon in which magnetic field produces electric current in a conductor is

(A) Magnetic effect (B) Chemical effect (C) Electromagnetic induction (D) Photoelectric effect.

412. A device converting mechanical energy into electrical energy is

(A) Dry cell (B) Motor (C) Dynamo (D) Solar cell.

413. Which one of the following can do photoelectric effect from most of the elements ?

(A) Gamma radiation (B) Common light (C) Ultraviolet rays (D) X-rays.

414. The electromagnetic waves that stimulate blood circulation are

(A) Radio waves (B) Infrared rays (C) Gamma rays (D) X-rays.

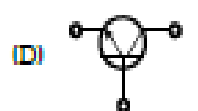
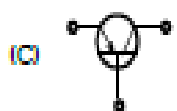
415. The element used extensively in electronic instruments is

(A) Phosphorus (B) Boron (C) Aluminium (D) Silicon.

416. Which of the following are the sides of diode ?

(A) Anode-Emitter (B) Emitter-Collector (C) Anode-Cathode (D) Cathode-Emitter.

417. Which one of the following is the circuit symbol of $p-n-p$ transistor ?



418. Which one of the following is responsible for separation of particles of different

densities in a

centrifuge ?

(A) Centrifugal force (B) Centrifugal reaction (C) Centripetal force (D) Centripetal reaction.

419. If a string whirling with a stone snaps, then the motion of stone will be

(A) in same circular motion (B) towards centre (C) in the direction of tangent (D) in the extending (expanding) circular path.

420. The force of attraction between any two objects is not related to the

(A) physical nature of objects (B) mass of the objects
(C) distance between the objects (D) force acting along the line joining two objects.

421. Weightlessness is experienced in which of the following situations ?

(A) Travelling in aircraft (B) Moving in upward direction in a lift
(C) Moving up in a giant wheel (D) In a spacecraft orbiting around the earth.

422. "An imaginary line drawn from the sun to planet sweeps equal areas in equal intervals of time."

This law is

(A) First law of planetary motion (B) Second law of planetary motion
(C) Third law of planetary motion (D) Universal law of gravitation.

423. Colours in a pure spectrum are

(A) mixed (B) found to be overlapping (C) away from one another
(D) occupying their respective places distinctly.

424. The part of the spectroscope that magnifies the image of the spectrum

(A) Slit (B) telescope (C) Lenses (D) Prism.

425. Which of the following is continuous emission spectrum ?

(A) Spectrum of light that is emitted by gases
(B) Spectrum obtained by passing sunlight through semi-transparent medium (object)

(C) Spectrum obtained from the flame of burning candle

(D) Spectrum obtained by passing light of carbon arc lamp through sodium vapour.

426. Sound propagates with maximum velocity (speed) through which of the following mediums ?

(A) Solid (B) Gas (C) Liquid (D) Vacuum.

427. Echo-cardiography by using ultrasound waves is helpful to study of which of the following organs

(A) Kidney (B) Urinary bladder (C) Pancreas (D) Heart.

428. The difference in brightness of two stars having the magnitudes + 1 and + 5, is

(A) $(2.5)^1$ (B) $(2.5)^2$ (C) $(2.5)^3$ (D) $(2.5)^4$

429. Sun may turn into black hole if one of the following is very less :

(A) Emission of energy (B) Mass (C) Volume (D) Brightness.

430. Which one of the following stars is binary star ?

(A) Rigel (B) Sun (C) Sirius (D) Betelgeuse.

431. Which one of the following is not correct with respect to radioactive emission ?

(A) Alpha rays are emitted (B) Beta rays are emitted
(C) Alpha and Beta rays are emitted simultaneously
(D) There may be Gamma rays along with Alpha or Beta rays.

432. The correct equation which indicates nuclear fission of Uranium-235 is

(A) ${}_{92}\text{U}^{235} \longrightarrow {}_{56}\text{Ba}^{141} + {}_{36}\text{Kr}^{92} + 30\text{n} + 1 + \text{energy}$

- (B) ${}_{92}\text{U}^{235} + {}_0^1\text{n} \longrightarrow {}_{56}\text{Ba}^{141} + {}_{36}\text{Kr}^{92} + 3 {}_0^1\text{n} + \text{energy}$
 (C) ${}_{92}\text{U}^{235} + {}_0^1\text{n} \longrightarrow {}_{56}\text{Ba}^{140} + {}_{36}\text{Kr}^{92} + 3 {}_0^1\text{n} + \text{energy}$
 (D) ${}_{92}\text{U}^{235} + {}_0^1\text{n} \longrightarrow {}_{56}\text{Ba}^{141} + {}_{36}\text{Kr}^{92} + 3 {}_0^1\text{n} + \text{energy}$.

433. 1 mg of mass is converted into energy ; then the liberated energy is equal to
 (A) 9×10^{11} J (B) 9×10^{10} J (C) 6×10^{10} J (D) 8.5×10^{10} J.

434. Which reaction(s) in the sun account(s) for its huge amount of energy ?

- (A) Fusion of heavy nuclei (B) Fission of heavy nuclei
 (C) Proton-proton chain and Carbon cycle (D) Fusion of Carbon nuclei with Helium nuclei.

435. What is the function of transparent glass plate used in the Solar Cooker ?

- (A) Absorbs the Solar radiation (B) Prevents the Solar radiation to go out of the wooden box
 (C) Reflects the solar radiation into the pot (D) Does not allow the heat energy to flow out of the box.

436. In relation to the use of hard water, which of the following does not cause energy crisis ?

- (A) Not using drinking water for other uses
 (B) Not switching off the electrical instrument while not in use
 (C) Not encouraging the use of other alternating energy sources
 (D) Not using the improvised heating facilities.

437. If you have to use electrical energy very efficiently, then you need to select

- (A) Fluorescent tubelight (B) Compact Fluorescent (tube) lamp
 (C) Incandescent lamp (D) Electric arc lamp.

438. Which of the following elements gives its oxide quickly when kept in air ?

- (A) Magnesium (B) Iron (C) Sodium (D) Copper.

439. Which of the following is the correct arrangement in the purification of copper by electrolytic

refining ?

- (A) Both Cathode and Anode are pure Copper plates
 (B) Only Anode is made up of pure Copper
 (C) Only Cathode is an impure Copper plate
 (D) Impure Copper is Anode and pure Copper is Cathode.

440. Copper + Zinc + Nickel — This composition of metals is helpful in producing

- (A) Surgical instruments (B) Resistance coils (C) Heating coils (D) Cutting tools.

441. The substance that acts as an insulator at 0 K, but conducts electric current as the temperature

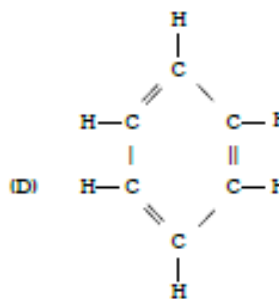
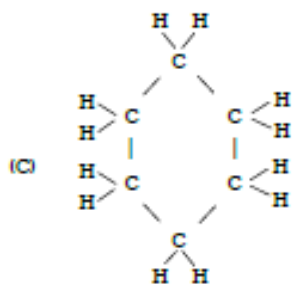
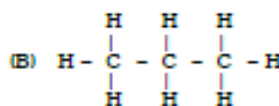
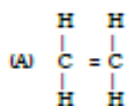
increases is

- (A) Carbon (B) Indium (C) Germanium (D) Phosphorus.

442. Compound of Silicon used in glass cutting is

- (A) Silicon carbide (B) Silicon dioxide (C) Sodium silicate (D) Calcium silicate.

443. Which one of the following is the covalent structure (structural formula) of benzene ?



444. For the production of glass that absorbs radiation, which one of the following is used ?
 (A) Aluminium oxide (B) Lead oxide (C) Boron (D) Carbon.

445. Which one of the following is made up of a plastic that does not turn soft or melt on heating ?

- (A) Plastic bucket (B) Plastic insulation on electric wires
 (C) Plastic water pipes (D) Handle of the electric iron.

446. Which of the following is prepared by synthetic material ?

- (A) Gravel (B) Wooden chair (C) Window rods (D) Fuse box.

447. Which one of the following is not correct with respect to the use of hard water ?

- (A) Clothes are easily washed when used with soap and hard water
 (B) Pulses are not cooked properly in hard water
 (C) Hard water used for bathing makes the skin dry and leaves whitish residue on skin
 (D) Boiler gets corroded when hard water is boiled inside.

448. Which of the following substances are formed in the process of saponification ?

- (A) Fat and Oil (B) Soap and Sodium hydroxide
 (C) Glycerol and Sodium hydroxide (D) Soap and Glycerol.

449. Even though the cleansing property of detergent is better than soap, you have to limit the use of

detergents. Why ?

- (A) The cost of detergent is more than soap (B) It effects on the hands of the user
 (C) The production is more complicated (D) It pollutes both water and land.

450. Rhizoids are present in

- (A) Pteridophyta (B) Bryophyta (C) Gymnosperms (D) Angiosperms.

451. The correct sequence of carbon cycle is

- (A) Photosynthesis, Nutrition, Respiration and Decomposition
 (B) Nutrition, Respiration, Decomposition and Photosynthesis
 (C) Respiration, Decomposition, Photosynthesis and Nutrition
 (D) Decomposition, Photosynthesis, Nutrition and Respiration.

452. The animal group with dry skin and horny scales is

- (A) amphibian (B) reptiles (C) birds (D) mammals.

453. The egg laying mammal among the following is

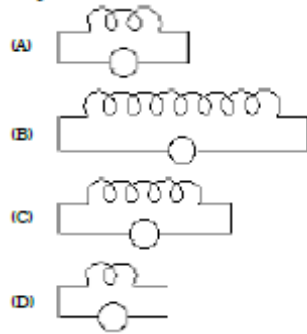
- (A) Platypus (B) Bat (C) Giraffe (D) Kangaroo.

454. The pigment which gives red colour to polysiphonia is

- (A) Phycocyanin (B) Chlorophyll (C) Xanthophyll (D) Phycoerythrin.

455. Diaphragm is a muscular membrane that separates which of the following from each other ?
- (A) Heart and Lungs (B) Stomach and Urinary bladder
(C) Thoracic and Abdominal cavities (D) Stomach and Liver.
456. From the functional point of view the white blood cells may be compared to
- (A) an army (B) scavengers (C) distributors (D) messengers.
457. The tissue that consists of fat cells which also provides protection to some organs is
- (A) adipose tissue (B) areolar tissue (C) muscular tissue (D) nervous tissue.
458. Xylem tissue is associated with
- (A) Conduction of water (B) Transpiration of water
(C) Absorption of water (D) Storage of water.
459. The part of the brain which is responsible for the maintenance of the equilibrium of the body is
- (A) Pons (B) Cerebellum (C) Medulla oblongata (D) Cerebrum.
460. The endocrine gland which is present on the upper surface of the kidney is
- (A) Thyroid gland (B) Parathyroid gland (C) Pituitary gland (D) Adrenal gland.
461. The abnormality that occurs in newborn babies due to hypothyroidism is
- (A) myxoedema (B) acromegaly (C) simple goiter (D) cretinism.
462. The incubation period of HIV in children
- (A) 10 to 12 months (B) 12 to 14 months (C) 16 to 22 months (D) 18 to 24 months.
463. ELISA test helps to detect
- (A) HIV (B) Diabetes (C) Hepatitis-B (D) Glaucoma.
464. When the skin, sclera and urine turn yellow in colour, it indicates
- (A) Liver Cancer (B) Cirrhosis (C) AIDS (D) Jaundice.
465. As an adulterant, argemone oil causes
- (A) Laziness (B) Body pain (C) Dropsy (D) Giddiness.
466. Metanil yellow is used as an adulterant to brighten the colour of
- (A) Pulse (B) Jowar (C) Fruit (D) Bakery product.
467. When the lactometer is made to float in unadulterated milk, it shows the reading of
- (A) 1.016 (B) 1.026 (C) 1.036 (D) 1.046.
468. Drosera traps and digests insects in order to get the compounds of
- (A) Sulphur (B) Phosphorus (C) Nitrogen (D) Carbon.
469. The pollution that can be controlled by the use of unleaded petrol is
- (A) water pollution (B) thermal pollution (C) air pollution (D) radioactive pollution.
470. Oxygen transportation in the blood is affected due to the addition of
- (A) Carbon monoxide with haemoglobin (B) Oxygen with haemoglobin
(C) Nitrogen with haemoglobin (D) Carbon dioxide with white blood cells.
471. The best & easy method out of the following to get maximum *emf* from a dynamo purchased is by
- (A) increasing the number of turns (B) increasing the strength of the magnet
(C) increasing the speed of rotation of the coil (D) covering the dynamo by an insulator.
472. A magnet is pushed in all the four coils shown below. The coil which produces lowest

emf is



473. Electromagnetic radiation having wavelength less than infrared rays and more than ultraviolet

rays can be used for

- (A) sterilization (B) photography (C) communication (D) radiography.

474. Photoelectric effect establishes

- (A) particle nature of light (B) wave nature of light
(C) wave nature of photons (D) colours in the visible light.

475. Which one of the following affects the conductivity of a pure semiconductor ?

- (A) Temperature (B) Length (C) Area (D) Thickness.

476. The component in a radio receiver which separates AF signal from the carrier wave is

- (A) a speaker (B) a detector (C) RF tuner (D) antenna.

477. Which one of the following is not an electronic device ?

- (A) Television (B) Radio (C) Incandescent bulb (D)

Computer.

478. Formula to calculate centripetal force is

(A) $F = \frac{mV^2}{r}$

(B) $F = \frac{Vm^2}{r}$

(C) $F = m^2 r$

(D) $F = \frac{r}{mV}$

479. The function of Centrifugal Governor is to

(A) protect the engine from short circuit (B) prevent the engine from overheating

- (C) control the speed of the engine (D) stop the engine.

480. When the distance between the two objects is doubled, the forces between the two objects before

and after doubling are in the ratio

- (A) 1 : 1 (B) 4 : 1 (C) 1 : 2 (D) 2 : 1.

481. Kepler's third law is denoted as

- (A) $r^3 \propto T^2$ (B) $r^3 \propto T^3$ (C) $r^3 \propto T$ (D) $r^3 \propto \frac{1}{T^2}$.

482. The mass of an object is 10 kg. Its average weight on the surface of earth in kg m / s² is

- (A) 10 (B) 98 (C) 9.8 (D) 980.

483. A physicist observes the raise of temperature in a thermometer till the water raises to 100°C at

sea level. Even if the heating is continued the thermometer shows only the same temperature. This is because

- (A) thermometer cannot show more than 100°C
- (B) enough mercury is not filled in the thermometer
- (C) water will not accept the heat to raise the temperature
- (D) heat is utilised by the water to change into steam.

484. Which is the best engine among the following ?

- (A) 720 kJ of work is done by 1800 kJ of heat
- (B) 450 kJ of work is done by 900 kJ of heat
- (C) The efficiency is 36%
- (D) 100 kJ of work is done by 1000 kJ of heat.

485. Clouds appear generally white in the sunlight because

- (A) clouds produce composite light
- (B) of Raman's effect
- (C) clouds are transparent
- (D) clouds scatter all the wavelengths of light uniformly.

486. When a monochromatic light is passed through organic liquids, the scattered light in comparison

with the incident light will be of

- (A) the same frequency
 - (B) the higher frequency
 - (C) the lower frequency
 - (D) both lower and higher frequencies.
487. The colour which bends the least when composite light is passed through a glass prism is

- (A) red
 - (B) violet
 - (C) yellow
 - (D) blue
488. Which one of the following is true for sound waves.

- (A) No medium is required for propagation
- (B) Velocity is same in all the media
- (C) They are longitudinal waves
- (D) They do not undergo reflection.

489. The ultrasound signal sent by a sonar takes 2 sec to return. If the velocity of sound in water is 1.5 km/s , then the depth of the ocean is

- (A) 1.5 km
- (B) 2 km
- (C) 2.5 km
- (D) 3 km.

490. Two stars P and Q have magnitudes one and three respectively. The correct statement about

this in the following is

- (A) Q is 2.5 times brighter than P
- (B) P is 6.25 times brighter than Q
- (C) P is 2.5 times brighter than Q
- (D) Q is 6.25 times brighter than P .

491. The type of galaxy to which our galaxy belongs is

- (A) spiral
- (B) irregular
- (C) elliptical
- (D) andromeda.

492. Which one among the following stars has the highest temperature ?

- (A) Sun
- (B) Rigel
- (C) Betelgeuse
- (D) Sirius.

493. The half-life period of radium is 1600 years. The time needed for 2 g. of radium to reduce itself

to 25% is

- (A) 3200 years
- (B) 2400 years
- (C) 4800 years
- (D) 1600 years.

494. An engineer advises the mechanic who makes the solar water heater to bend the copper pipe in the

form of a coil to

- (A) make water to flow easily (B) give attractive look
(C) reduce the cost (D) increase the area of heat absorption.

495. The most important function of the glass lid in a solar cooker is to
(A) allow light into the cooker (B) prevent entry of dust
(C) act as an insulator (D) help to trap the heat rays.

496. The incandescent bulbs have to be painted, because they
(A) need borosilicate glass only (B) are costly
(C) have short life (D) consume more energy

497. The metal which does not react with hydrochloric acid is
(A) zinc (B) magnesium (C) platinum (D) iron.

498. The concentration of copper ore is done by (A) hydraulic washing (water washing)

- (B) froth flotation (C) magnetic separation (D) electrolysis.

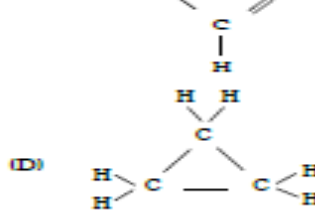
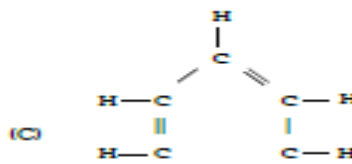
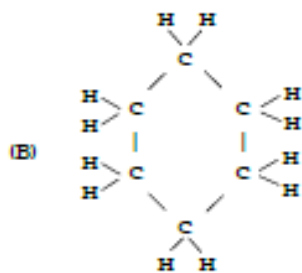
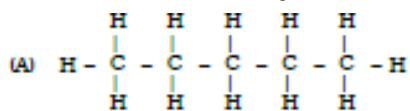
499. In preparing amorphous silicon, dilute hydrochloric acid is used to
(A) remove unchanged silica (B) dissolve magnesium oxide
(C) increase its reactivity (D) give brown colour.

500. The compound of silicon that can be used in calico printing is
(A) sodium silicate (B) aluminium silicate (C) silicon carbide (D) calcium silicate.

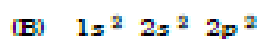
501. The property of self-linking of carbon atoms in long chain is called
(A) allotropy (B) isotope (C) catenation (D) isomerism.

502. Gypsum is added to hot clinkers of cement to
(A) slow down rapid setting (B) increase the strength of the cement
(C) absorb more water (D) become hard after setting.

503. The aromatic hydrocarbon among the following is



504. The electronic configuration of carbon in its excited state is



505. Which one of the following is a thermoplastic ?

- (A) Bakelite (B) Polyvinyl chloride (C) Silicones (D) Epoxy resins.

506. The gasket of a pressure cooker is made of
 (A) Teflon (B) Chloroprene (C) Polythene (D) Thiokol.
507. In an experiment, a sample of hard water is heated. The gas liberated turns lime water milky.
 The sample of water contains
 (A) bicarbonates (B) chlorides (C) sulphates (D) phosphates.
508. "Though detergent is a pollutant its use is unavoidable." Which one of the following supports best the above argument ?
 (A) It saves valuable edible oils (B) It cleans better than soap
 (C) It saves time (D) It can be used even if the water is hard.
509. The formula of stearic acid is (A) $C_{17}H_{35} - COOH$ (B) $C_{17}H_{37} - COONa$
 (C) $C_{17}H_{33} - COOH$ (D) $C_{17}H_{35} - COONa$.
510. Which of the following is a disadvantage of biotechnology ?
 (A) Seedless fruits (B) Sterility of seeds
 (C) Disease resistant plants (D) Reduce the life span of plants.
511. The plants in which seeds are not enclosed in fruits are
 (A) Angiosperms (B) Gymnosperms (C) Pteridophytes (D) Bryophytes.
512. The group containing only amphibians is
 (A) frog, toad, lizard, ichthyophis (B) salamander, frog, lizard, toad
 (C) ichthyophis, frog, toad, salamander (D) frog, ichthyophis, lizard, salamander.
513. The egg laying mammal is (A) Kangaroo (B) Platypus (C) Whale (D) Bat.
514. In dicot plants, the vascular bundles are arranged
 (A) in a ring (B) vertically (C) scattered (D) horizontally.
515. Spindle shaped elongated muscle fibres are found in
 (A) striped muscles (B) unstriped muscles (C) cardiac muscles (D) voluntary muscles.
516. A knot like structure formed by several neurons is
 (A) nerve (B) axon (C) ganglion (D) dendrite.
517. Olfactory nerve is concerned in sensing
 (A) smell (B) sound (C) touch (D) light.
518. The air passage which equalizes the air pressure on the two sides of the eardrum is
 (A) auditory canal (B) nasal cavity (C) wind pipe (D) Eustachian tube.
519. The transmission method which is not applicable for AIDS is
 (A) sharing unsterilized needles (B) unprotected sex
 (C) mosquito bite (D) transfusion of infected blood.
520. Bilirubin level increases in the blood when
 (A) liver cells are severely damaged (B) secretion of insulin is more
 (C) secretion of glucagon is less (D) HIV intrudes the body.
521. The hormone which is secreted more when one fears by mistaking rope for a snake in the dusk is
 (A) Thyroxine (B) Adrenaline (C) Androgen (D) Estrogen.
522. The enzyme reverse transcriptase helps in

- (A) synthesis of RNA in the host cell
host cell
- (B) synthesis of DNA in the
host cell
- (C) destroying the DNA in the host cell
cell.
- (D) destroying the RNA in the host
cell.

523. The adulterant vanaspati in ghee is detected by adding

- (A) concentrated hydrochloric acid and a pinch of salt
(B) concentrated nitric acid and a pinch of sugar
(C) concentrated hydrochloric acid and a pinch of sugar
(D) concentrated nitric acid and a pinch of salt.

524. When one buys processed and canned food, he should see particularly

- (A) attractive advertisements
(B) attractive packing
(C) certification by ISI
(D) recommendation by

neighbours.

525. Lactometer is used to measure

- (A) quantity of water in milk
(B) density of milk
(C) volume of milk
(D) density of water.

526. There is a wide opposition for the establishment of oil refineries at Mangalore, mainly because

it may cause

- (A) thermal pollution
(B) marine pollution
(C) sound pollution
(D) soil pollution.

527. During photosynthesis, oxygen enters the body of producers in the form of

- (A) carbon dioxide and water
(B) salts and minerals
(C) salts and water
(D) water and minerals.

528. The two major components of a typical biogeochemical cycle are

- (A) fixation and recycling
(B) reservoir pool and exchange pool
(C) biological fixation and artificial fixation
(D) ammonification and

nitrification.

529. Denitrification means conversion of

- (A) ammonium salts into nitrates
(B) organic compounds into ammonium salts
(C) nitrates into free nitrogen
(D) nitrogen into nitrates.

520. The technique of effecting desirable changes in the genetic material of an organism is called

- (A) cloning
(B) tissue culture
(C) genetic engineering
(D) DNA fingerprint.

521. Which of the following is a disadvantage of biotechnology ?

- (A) Seedless fruits
(B) Sterility of seeds
(C) Disease resistant plants
(D) Reduce the life span of plants.

522. How many times does the direction of the electric current change when the armature of an A.C.

dynamo makes five cycles ?

- (A) 5
(B) 10
(C) 15
(D) 20.

523. Number of photoelectrons ejected by a radiation in photoelectric effect is directly proportional to

- Its (A) intensity
(B) frequency
(C) wavelength
(D) velocity.

524. The electromagnetic radiation used in the treatment of cancer is

- (A) infrared
(B) violet
(C) visible light
(D) gamma.

525. The reason for rectifying action of a diode is

- (A) low resistance in $n-p$ direction
(B) high resistance in $n-p$ direction

(C) very low resistance in n - p direction (D) double the resistance in p - n direction.
526. The dopant used in p -type semiconductors is
(A) aluminium (B) phosphorus (C) arsenic (D) antimony.

527. The function of detector in a radio receiver is to
(A) mix RF and AF signals (B) amplify RF signals
(C) separate RF and AF signals (D) amplify AF signals.

528. The passengers inside an automobile moving fast along a curve feel pushed outwards due to
(A) centripetal force (B) centripetal reaction
(C) centrifugal reaction (D) centripetal acceleration.

529. When a mixture of mercury and water in a vessel is rotated using a centrifuge, the highest centrifugal reaction is experienced by
(A) water (B) mercury (C) both water and mercury (D) vessel.

530. The tides due to the sun and moon can be explained by
(A) Kepler's first law (B) Kepler's second law (C) Newton's third law (D) law of gravitation.

531. When the distance between two celestial bodies is increased by two times the original distance, the gravitational force between them
(A) increases by 2 times (B) decreases by 2 times (C) increases by 4 times (D) decreases by 4 times.

532. The weight of an object is slightly higher near the poles than at the equator, due to earth's
(A) atmosphere (B) spherical shape (C) geoid shape (D) magnetic field.

533. The part of a heat engine that converts linear movement into circular motion is
(A) crankshaft (B) piston rod (C) piston (D) cylinder.

534. Efficiency of an engine which performs work of 400 joules by using 1000 joules of heat energy is
(A) 80% (B) 60% (C) 40% (D) 20%.

535. The ray that bends most in the dispersed light when sunlight is passed through a prism is
(A) Red (B) Blue (C) Orange (D) Violet.

536. When monochromatic light is passed through benzene, the scattered light is
(A) monochromatic (B) polychromatic (C) coherent (D) of the same wavelength.

537. In a spectrometer collimator consists of
(A) lens and slit (B) prism (C) telescope (D) source of light.

538. The ultrasonic wave sent by a Sonar takes 4 seconds to return. The distance of the object is

[the velocity of sound in water is 1.5 km/sec]

(A) 6 km (B) 3 km (C) 2 km (D) 1 km.

539. The principle of working of radar gun used by traffic control authorities to detect vehicles crossing speed limit, is

(A) Raman effect (B) Rayleigh scattering (C) Tyndall effect (D) Doppler effect.

540. The end stage of sun like stars is

- (A) Black dwarf (B) Black hole (C) White dwarf (D) Neutron star.
541. The velocity of recession of celestial bodies is directly proportional to
(A) mass (B) period of rotation (C) distance (D) volume.
542. How many times is a star of magnitude + 1 brighter than a star of magnitude + 3 ?
(A) 6.25 (B) 6.15 (C) 6.05 (D) 6.00.
543. The difference between normal hydrogen $1\text{H}1$ and deuterium $1\text{H}2$ is caused by particle
(A) Proton (B) Electron (C) Positron (D) Neutron.
544. The main source of electricity for artificial satellites is
(A) dry cells (B) solar cells (C) acid cells (D) dynamo.
545. The reason for painting the copper pipes with black paint in solar water heater is to
(A) reflect sunlight (B) prevent the heat loss
(C) absorb solar energy (D) prevent copper from reacting with air.
546. To solve the problem of energy crisis to some extent the device that you may recommend is
(A) pressure cooker (B) firewood stove (C) kerosene stove (D) electric stove.
547. In the refining of copper the mass of cathode
(A) decreases (B) increases (C) decreases gradually (D) remains as before.
548. The most reactive metal among the following is
(A) Zinc (B) Magnesium (C) Iron (D) Sodium.
549. In the extraction of amorphous silicon the purpose of washing the products is, to
(A) dissolve silicon (B) dissolve magnesium oxide
(C) purify magnesium oxide (D) remove excess of silica.
550. Silicones are used as insulators in electric motors because they
(A) become soft on heating (B) have low resistance
(C) do not become soft on heating (D) are thermoplastics.
551. One of the characteristics of isomer is
(A) different molecular formula (B) same structural formula
(C) same physical and chemical properties (D) same molecular formula but different structures.
552. The reason for adding ethyl mercaptan to liquefied petroleum gas is, to
(A) increase the efficiency of the stove (B) prevent leakage of LPG
(C) detect leakage of LPG easily (D) save fuel.
553. How many moles of oxygen are necessary for the complete combustion of two moles of butane ?
(A) 10 (B) 11 (C) 12 (D) 13.
554. An example for polymer is
(A) chloroprene (B) polythene (C) carbolactum (D) vinyl chloride.
555. In the manufacture of cement the reason for adding gypsum is, to
(A) harden quickly (B) make the concrete mix smooth
(C) increase the binding force (D) prevent rapid setting.
556. The use of plastic should be minimised because they are
(A) biodegradable (B) non-biodegradable (C) expensive (D) brittle.
557. The boiling method of softening hard water is not suitable when which of the following salts are

present in hard water ?

- (A) $\text{Ca} (\text{HCO}_3)_2$ (B) $\text{Ca} (\text{HCO}_3)_2$ and $\text{Mg} (\text{HCO}_3)_2$
(C) $\text{Mg} (\text{HCO}_3)_2$ (D) MgCl_2 and CaSO_4 .

558. The acid that is not related to saponification reaction is

- (A) Sulphuric acid (B) Stearic acid (C) Oleic acid (D) Palmitic acid.

559. The use of detergents should be minimised because they

- (A) are expensive (B) are pollutants
(C) remove the colour of cloths (D) decrease durability of cloths.

561. Phycoerythrin and phycocyanin are found in

- (A) red algae (B) blue green algae (C) brown algae (D) green algae.

562. The number of chambers in the heart of birds is

- (A) one (B) three (C) two (D) four.

563. In bryophytes, root like structures are called

- (A) tap root (B) fibrous root (C) rhizoids (D) prop root.

564. In animals, fat is stored in

- (A) areolar tissue (B) cartilage tissue (C) adipose tissue (D) reticular tissue.

565. The study of tissue is called

- (A) Cytology (B) Embryology (C) Histology (D) Pathology.

566. The tissue used to prepare gunny bags is

- (A) Parenchyma (B) Collenchyma (C) Sclerenchyma (D) Phloem.

567. The function of hormone can be compared to the function of a

- (A) messenger (B) storekeeper (C) conveyor (D) manager.

568. Small insects entering the ear can be removed by filling the external ear with

- (A) hot water (B) salt water (C) ice water (D) warm coconut oil.

569. The brain of an adult man weighs about

- (A) 1400 gms (B) 1600 gms (C) 2000 gms (D) 1200 gms.

570. Test to detect H.I.V. is

- (A) Heart test (B) R.B.C. test (C) ELISA test (D) Urine test.

571. Hepatitis B is dangerous since it damages

- (A) brain (B) liver (C) heart (D) intestine.

572. The disease which is not spread by using public toilets is

- (A) Cholera (B) Malaria (C) Hepatitis B (D) AIDS.

573. A person is suffering from a disease known as dropsy. The adulterant which causes it, is

- (A) mineral oil (B) argemone oil (C) coconut oil (D) kerosene oil.

574. The instrument used to test the density of milk is

- (A) Thermometer (B) Lactometer (C) Manometer (D) Hydrometer.

575. One should examine for which of the following certifications while purchasing packed food

in the market ?

- (A) WHO mark (B) ISI mark (C) FAO mark (D) ISO mark.

576. Which of the following bacteria takes part in denitrification ?

- (A) Pseudomonas (B) Nitrosomonas (C) Nitrobacter (D) Rhizobium.

577. Growing broad leafed plants helps in

- (A) cutting the wind speed (B) reducing sound pollution

- (C) reducing air pollution (D) beautifying the surroundings.
578. Smog is more common in
 (A) industrially dense area (B) hilly area with thick vegetation
 (C) river valley area (D) area with closely built-up villages.
579. The disease 'Minamata' is caused by an industrial pollutant named
 (A) Lead (B) Chromium (C) Mercury (D) Cadmium.
570. D.N.A. fingerprint technology has found significance in the field of
 (A) Genetics (B) Forensic science (C) Agricultural science (D) Physiology.
571. Knowledge of cloning promotes
 (A) creation of living things by asexual method (B) destroying dangerous living species
 (C) controlling population explosion (D) creating living things by sexual method.
572. In a conductor, a changing magnetic field linking a conductor induces
 (A) resistance (B) motor force (C) electromotive force (D) magnetic force.
573. The organ which shows visible response in the unit of nervous system is
 (A) receptor (B) effector (C) regulator (D) conductor.
574. The movement of a chemical substance from the reservoir pool to the exchange pool is called
 (A) recycling (B) diffusion (C) fixation (D) chemical recombination.
575. D.N.A. fingerprint technology has found significant application in the field of
 (A) genetics (B) forensic science (C) agricultural science (D) physiology.
576. Sclerenchyma fibres are used in making gunny bags because they are
 (A) elastic and flexible (B) thick and long (C) irregular and short (D) short and hard.
577. The instrument used to test the density of milk is
 (A) thermometer (B) hydrometer (C) lactometer (D) barometer.
578. Phycoerythrin and phycocyanin are found in
 (A) green algae (B) blue algae (C) brown algae (D) red algae.
579. A person is suffering from a disease known as dropsy. The adulterant which causes it, is
 (A) mineral oil (B) argemone oil (C) lubricant oil (D) kerosene oil.
580. The sound waves ultimately reach the organ of Corti through
 (A) Endolymph (B) Perilymph (C) Eustachian tube (D) Auditory canal.
581. The disadvantage with genetically modified plant is
 (A) absence of flowers (B) inability to produce seeds (C) sterility of seeds (D) absence of fruits.
582. Mammals are warm blooded animals. So their body temperature
 (A) varies according to seasons (B) depends on the age
 (C) according to the thickness of hair (D) remains constant irrespective of the environment.
583. To reduce air pollution, the chimney in an industry must be altered by
 (A) increasing the height (B) increasing the diameter

- (C) decreasing the number (D) decreasing the diameter.
584. A ganglia is formed by several
(A) dendrites (B) nerves (C) neurons (D) axons.
585. The skeletal system in human body provides support
(A) only externally (B) both internally and externally
(C) only internally (D) partially.
586. The hormone which helps in the development of feminine characteristics is
(A) testosterone (B) androgen (C) progesterone (D) estradiol.
587. The shape of muscles found in oesophagus which helps in peristaltic movement is
(A) spindle (B) square (C) columnar (D) circular.
588. The process of conversion of ammonium salts into nitrates and nitrites is
(A) ammonification (B) denitrification (C) biological fixation (D) nitrification.
589. The tissue endothelium found in blood vessels is referred as
(A) cuboidal epithelium (B) squamous epithelium
(C) ciliated epithelium (D) stratified epithelium.
590. A boy sees a snake while playing in the garden. He shouts for help in fear. The hormone secreted in his body at that time is
(A) cortisone (B) noradrenaline (C) adrenaline (D) dopamine.
591. Ancient photographs of Monalisa are given to you. The E.M.R used to identify the originality of these photographs is
A. UV rays B. Infrared Rays C. Ultrasonic waves D. gamma rays
592. The radiation used to get drinking water without using chemicals is
A. X-rays B. UV rays C. Infrared rays D. Microwaves
593. The scientist who designed the first commercial steam engine is –
A. J. Verne B. Robert Goddard C. Thomas Savari D. Joule
594. A mechanic detects the problem in carburetor of a vehicle. The possible problem faced by the rider is
A. Problem in piston movement B. Fuel does not burn
C. Exhaust stroke cannot be finished D. fuel and air do not mix properly
595. Which one of the following can be used by an astronaut to estimate the speed of the galaxy and rotation of the planets?
A. Hubble law B. Raman effect C. Doppler effect D. Rayleigh scattering
596. Kaiga nuclear power plant in our state is enclosed by concrete building because
- A. To sustain chain reaction. B. To prevent hazardous on human health
C. It helps for nature D. To prevent the spread of nuclear radiations to the nature.
597. The raw material used to prepare fungicides and cosmetics is ...
A. Compressed natural gas B. Paraffin wax C. Petroleum D. Aromatic substances
598. An example for the thermosetting plastic is
- A. Polythene B. Bakelite C. Nylon-66 D.

Polyvinylchloride

599. The common chemical used in the preparation of soap and detergent is ...

- A. Fatty acid B. Sodium chloride C. Hydrocarbon D. Aluminum chloride

600. An example for thermoplastic is

- A. Polythene B. Bakelite C. Polystyrene D. Thiokol

QUESTIONS' BANK

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