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Q-1 - 14620971

Which of the following pairs contains an infectious and a non-infectious disease respectively ?

- (A) Typhoid and AIDS
- (B) AIDS and cancer
- (C) Pneumonia and malaria
- (D) Cancer and malaria

CORRECT ANSWER: B

SOLUTION:

Infectious diseases are those diseases that can spread

from one person to another e.g., AIDS. Non-infectious diseases are those diseases that cannot spread from one person to another e.g., cancer.

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Q-2 - 53695336

BCG stands for

- (A) Bacterio-chemical gangrene
- (B) Bacteria culture growth
- (C) Bacillus Calmette Guerin
- (D) Bacterial cell genome

CORRECT ANSWER: C

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Q-3 - 53695548

Athlete's foot' disease is caused by

- (A) Tinea pedis
 - (B) Tinea capitis
 - (C) Candida albicans
 - (D) Rickettsia
-

CORRECT ANSWER: A

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Q-4 - 14320972

[If z_1, z_2, z_3 are the vertices of an equilateral triangle such that $|z_2| = |z_3|$ then prove that $z_1 + z_2 + z_3 = 0$]

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Q-5 - 14320976

$$\cos^{-1}\left(\frac{1}{1+\cos^2 x}\right)$$

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Q-6 - 53695456

There is oozing of semisolid material which forms a tough membrane over air passage .The disease is

- (A) whooping cough
- (B) diphtheria
- (C) pulmonary tuberculosis
- (D) measles

CORRECT ANSWER: B

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Q-7 - 53695350

Which of the following is not a serological test for early diagnosis of syphilis?

(A) Montaux test

(B) VDRL

(C) Widal test

(D) All of the above

CORRECT ANSWER: B

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Q-8 - 53695374

Blood cancer is called:

(A) thrombosis

(B) leukaemia

(C) haemolysis

(D) haemophilia

CORRECT ANSWER: B

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Q-9 - 14621079

Several genes called _____ have been identified in normal cells which when activated will turn into _____, and under certain conditions, could lead to cancerous transformation of the cells. Complete the above paragraph by selecting correct sequence of words.

(A) oncogenes, proto oncogenes

(B) cellular oncogenes, proto oncogenes

(C) proto oncogenes, oncogenes

(D) oncogenes, proto oncogenes

CORRECT ANSWER: C

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Q-10 - 14621016

Antibodies are secreted by

(A) T-lymphocytes

(B) B-lymphocytes

(C) both (a) and (b)

(D) natural killer cell

CORRECT ANSWER: B

SOLUTION:

Antibodies are immunoglobulins which are produced in response to antigenic stimulation. Antibodies are produced by B-lymphocytes. Antibodies direct the antibody-mediated immunity.

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Q-11 - 53695375

The spread of cancerous cells to distant sites is termed

- (A) metastasis
- (B) metachrosis
- (C) metagenesis
- (D) metamorphosis

CORRECT ANSWER: A

Q-12 - 14621095

Cocaine is obtained from

- (A) Erythroxylon coca
- (B) Papaver somniferum
- (C) Atropa belladonna
- (D) Datura stramonium.

CORRECT ANSWER: A

SOLUTION:

Cocaalkaloid or cocaine is obtained from coca plant

Erythroxylum (Erythroxylon coca) which is native to south America.

Q-13 - 53695340

Food poisoning (botulism) is caused by the infection of a species of

- (A) Azotobacter
- (B) Clostridium
- (C) Lactobacillus
- (D) Rhizobium

CORRECT ANSWER: B

Q-14 - 14621096

Cocaine is commonly called as

(A) smack

(B) coke

(C) crack

(D) both (b) and (c)

CORRECT ANSWER: D

SOLUTION:

Cocaine, commonly called come or crack, is usually snorted, it has a potent stimulating action on central nervous system, producing a sence of euphoria and increased energy. Excessive dosageof cocaine causes hallucinations.

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Ringworm in humans is caused by:

- (A) Viruses
 - (B) Bacteria
 - (C) Fungi
 - (D) Nematodes
-

CORRECT ANSWER: C

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Q-16 - 14620995

Elephantiasis, a chronic inflammation that results in gross deformities is caused by

- (A) Ascaris
- (B) E.coli

(C) Wuchereria

(D) Trichophyton.

CORRECT ANSWER: C

SOLUTION:

Elephantiasis or filariasis is caused by a number of worms. However, in India only two types of worms are responsible for this disease, *Wuchereria bancrofti* and *W. malayi*. This disease is transmitted by female *Culex* mosquitoes. Elephantiasis affects lymphatic vessels of the lower limbs.

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Q-17 - 14620999

The pathogen *Microsporum* responsible for ringworm disease in humans belongs to the same kingdom as that of

- (A) Taenia, a tapeworm
- (B) Acaris, a roundworm
- (C) Rhizopus, a mould
- (D) Wuchereria, a filarial worm.

CORRECT ANSWER: C

SOLUTION:

Microsporum and Rhizopus belong to the Kingdom Fungi.

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Q-18 - 14621105

Which one of the following is an opiate narcotic ?

- (A) Barbiturates

(B) Morphine

(C) Amphetamines

(D) LSD

CORRECT ANSWER: B

SOLUTION:

Morphine is an opiate narcotic. It is the principal opium alkoid. It is a strong analgesic and also has sedative and calming effect.

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Q-19 - 53695508

At which stage of HIV infection does one usually show symptoms of AIDS

(A) When the infecting retrovirus enter host cells

(B) When viral DNA is produced by reverse transcriptase

(C) When HIV replicates rapidly in helper T-lymphocytes and damages large number of these

(D) Within 15 days of sexual contact with an infected person

CORRECT ANSWER: C

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Q-20 - 53695510

A certain patient is suspected to be suffering from Acquired Immuno Deficiency Syndrome Which diagnostic technique will you recommend for its detection?

(A) ELISA

(B) MRI

(C) Ultra sound

(D) WIDAL

CORRECT ANSWER: A

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Q-21 - 14621029

Passive immunity can be conferred directly by

(A) vaccines

(B) antitoxins

(C) colostrum

(D) both (b) and (c)

CORRECT ANSWER: D

SOLUTION:

Transfer of immune products like antibodies and immunoglobulins to a recipient is called passive immunity. Colostrum, a yellowish milk secreted by mother during the initial days of lactation has abundant antibodies to protect the infant. In tetanus, we need to directly inject the preformed antibodies or antitoxin (a preparation containing antibodies to the toxin). These both are examples of passive immunity.

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Q-22 - 14621115

The chronic use of drugs and alcohol results in

- (A) excess mucous and blood clots
- (B) internal bleeding and muscular pain
- (C) cirrhosis and nervous system damage leukaemias

and lymphomas

(D) leukaemias and lymphomas.

CORRECT ANSWER: C

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Q-23 - 14621151

Assertion : *Streptococcus pneumoniae* and *Haemophilus influenzae* are responsible for causing infectious disease in human beings.

Reason : A healthy person acquires the infection by inhaling the droplets/aerosols released by an infected person.

(A) If both assertion and reason are true and reason is the correct explanation of assertion.

(B) If both assertion and reason are true but reason is not the correct explanation of assertion.

(C) If assertion is true but reason is false.

(D) If both assertion and reason are false.

CORRECT ANSWER: B

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Q-24 - 53695361

The confirmatory test used to diagnose AIDS is:

(A) ESR

(B) Widal

(C) ELISA

(D) Western Blot

CORRECT ANSWER: D

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Which of the following is not a lymphoid tissue ?

- (A) Spleen
 - (B) Tonsils
 - (C) Pancreas
 - (D) Thymus
-

CORRECT ANSWER: C

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Primary response produced due to first time encounter with a pathogen is of

(A) high intensity

(B) low intensity

(C) intermediate intensity

(D) no intensity.

CORRECT ANSWER: B

SOLUTION:

Primary immune response is produced by the initial contact of an animal with an antigen. It takes relatively longer time, is of low intensity and declines rapidly.

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Q-27 - 53695500

Which of the following is a pair of viral diseases

(A) Dysentery, Common Cold

(B) Typhoid, Tuberculosis

(C) Ringworm, AIDS

(D) Common Cold, AIDS

CORRECT ANSWER: D

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Q-28 - 53695343

A common disease of domesticated animals is

(A) anthrax

(B) syphilis

(C) cholera

(D) diphtheria

CORRECT ANSWER: A

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Q-29 - 14621083

Which of the following statements is not correct ?

- (A) Higher vertebrates can distinguish foreign organisms from self-cells.
- (B) Fetus receives antibodies from its mother through placenta, is an example of active immunity.
- (C) Cell-mediated immunity involves T-lymphocytes.
- (D) Antibodies against cancer-specific antigens are used for detection of certain cancers.

CORRECT ANSWER: B

SOLUTION:

Fetus receiving antibodies from mother through placenta is an example of passive immunity.

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Q-30 - 53695359

Which of the following is sexually transmitted disorder?

(A) Hepatitis E

(B) Hepatitis B

(C) Hepatitis A

(D) typhoid

CORRECT ANSWER: B

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Q-31 - 53695487

Cancer cells are more easily damaged by radiation than normal cells because they are:

- (A) Different in structure
 - (B) Non-dividing
 - (C) Starved of mutation
 - (D) Undergoing rapid division
-

CORRECT ANSWER: D

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Q-32 - 41620982

[(26) (A) Predict which of the following with anions and which will form cations. (i) Na (ii) Al (iii) a (iv) O (B) Name two elements that are inert.]

Q-33 - 53695338

Mantoux test is for

- (A) scarlet fever
- (B) diphtheria
- (C) rheumatoid fever
- (D) tuberculosis

CORRECT ANSWER: D

Q-34 - 14621117

Elderly people are advised to get influenza (flu) vaccinations every year. Each year, a different type of flu vaccine has to be made. This

is because

(A) different viruses attack people of different ages, so each year as the population ages, a new vaccine must be produced

(B) vaccines are unstable and cannot be stored for more than one year

(C) the body learns to destroy the antibodies made against the vaccine, so a new type of vaccine is needed for each vaccination

(D) flu viruses change their genetic constituents so rapidly that vaccines against them rapidly become obsolete.

CORRECT ANSWER: D

SOLUTION:

Flu virus makes small errors due to mutations when it copies its genetic code during reproduction, But it lacks the ability to repair those errors, because it is an RNA virus and RNA, unlike DNA, lacks a self-correcting mechanism. As a result, flu virus is not genetically stable. Every generation is slightly different, and those differences accumulate as time passes. This slow deviation is called antigenic drift, and it is the reason why it is necessary to reformulate flu vaccines every year. Every flu season, the genetic make-up of the dominant strains from the prior year will have drifted, changing the surface structure of those strains just enough to diminish, or even destroy, the effectiveness of the previous year's vaccine.

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Q-36 - 14620984

A toxic substance, responsible for the chills and high fever recurring every three to four days in malarial fever, is

- (A) interferon
- (B) haemozoin
- (C) hirudin
- (D) colostrum

CORRECT ANSWER: B

SOLUTION:

In malaria, chills and shivers are caused by the release of

toxic substance haemozoin into the blood at the time of RBCs rupture, It is generally followed by fever.

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Q-37 - 14620987

During the life cycle of Plasmodium, sexual reproduction takes place in which of the following hosts ?

- (A) Human
- (B) Femal Anopheles mosquito
- (C) Male Anopheles mosquito
- (D) Both (a) and (b)

CORRECT ANSWER: B

SOLUTION:

Malaria is caused by Plasmodium parasite. It has two hosts to complete its life cycle. Female Anopheles mosquito is the primary host in which the sexual phase of the parasite occurs. Human being is the secondary host in which that asexual phase of the parasite occurs.

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Q-38 - 53695459

Choose the incorrectly matched pair

- (A) B cells - Humoral immunity
- (B) Cytokines - interferons
- (C) Passive immunity - Long lasting
- (D) Antibodies - immunoglobulins

CORRECT ANSWER: C

SOLUTION:

Passive immunity is short lasting.

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Q-39 - 14621075

A metastatic cancerous tumour is termed 'sarcoma' if the disorder is in

- (A) fibroblasts
- (B) circulatory system
- (C) immune system
- (D) epithelial cells.

CORRECT ANSWER: A

SOLUTION:

Sarcoma is a cancer of connective tissues and muscular tissues. Fibroblasts are the cells present in the connective tissue that act as precursors of collagen, elastic and reticular fibres.

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Q-40 - 53695351

Hansen's disease is another name for:

- (A) plague
- (B) leprosy
- (C) tetanus
- (D) none of these

CORRECT ANSWER: B

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The sporozoites that cause infection, when a female Anopheles mosquito bites a person, are formed in

- (A) Liver of the person
- (B) RBCs of mosquito
- (C) salivary glands of mosquito
- (D) intestine of mosquito

CORRECT ANSWER: D

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Where will you look for the sporozoites of malarial parasite ?

- (A) Saliva of infected female Anopheles mosquito

(B) Salivary glands of freshly moulted female Anopheles mosquito

(C) Spleen of infected humans

(D) RRCs of humans suffering from malaria

CORRECT ANSWER: A

SOLUTION:

When a female Anopheles mosquito bites an infected person. Plasmodium enters the mosquito's body and undergoes further development. The parasites multiply within them to form sporozoites that are stored in their salivary glands.

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Immunity due to injection of diphtheria toxoid is an example of:

- (A) naturally acquired active immunity
 - (B) naturally acquired passive immunity
 - (C) artificially acquired active immunity
 - (D) artificially acquired passive immunity
-

CORRECT ANSWER: C

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Q-44 - 53695566

Asthma may be attributed to

- (A) Allergic reaction of the mast cells in the lungs
- (B) Inflammation of the trachea
- (C) Accumulation of fluid in the lungs

(D) Bacterial infection of the lungs

CORRECT ANSWER: A

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Q-45 - 53695355

Mumps is a viral disease caused by the inflammation of:

(A) parotid gland

(B) sublingual gland

(C) infraorbital gland

(D) submaxillary gland

CORRECT ANSWER: A

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Q-46 - 14621123

The term 'Health' is defined in many ways. The most accurate definition of the health would be

(A) health is the state of body and mind in a balanced condition

(B) health is the reflection of a smiling face

(C) health is a state of complete physical, mental and social well-being

(D) health is the symbol of economic prosperity.

CORRECT ANSWER: C

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Q-47 - 14621024

The most abundant class of immunoglobulins (Igs) in the body is

(A) IgA

(B) IgG

(C) IgE

(D) IgM.

CORRECT ANSWER: B

SOLUTION:

IgG is the most abundant class of immunoglobulins in the body constituting 80 % of the Igs.

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Q-48 - 53695387

Which one is a correct match?

(A) Bhang - Analgesis

(B) Cocaine - Opiate narcotics

(C) Morphine - Hallucinogen

(D) Barbiturate - Tranquilizer

CORRECT ANSWER: D

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Q-49 - 53695384

Fatty liver is syndrome ' is associated with:

(A) smoking

(B) alcoholism

(C) tea addiction

(D) measles

CORRECT ANSWER: B

Q-50 - 53695427

Which of the following disease is due to an allergic reaction

- (A) Goitre
- (B) Skin cancer
- (C) Hay fever
- (D) Enteric fever

CORRECT ANSWER: C

Q-51 - 53695370

Black water fever is caused by:

(A) Plasmodium vivax

(B) Plasmodium malareie

(C) Plasmodium ovale

(D) Plasmodium falciparum

CORRECT ANSWER: D

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Q-52 - 53695468

Which of the following are the reason(s) for Rheumatoid arthritis?

Choose the correct option.

(i) Lymphocytes becomes more active

(ii) Body attacks self cells

(iii) More antibodies are produced in the body

(iv) The ability to differentiate pathogens or foreign molecules from self cells is lost

(A) (i) and (ii)

(B) (ii) and (iv)

(C) (iii) and (iv)

(D) (i) and (iii)

CORRECT ANSWER: B

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Q-53 - 14621152

Assertion : In malaria, a person experiences chills and high fever recurring every three to four days.

Reason : This is caused by the release of haemozoin with rupture of liver cells.

(A) If both assertion and reason are true and reason is the correct explanation of assertion.

(B) If both assertion and reason are true but reason is not the correct explanation of assertion.

(C) If assertion is true but reason is false.

(D) If both assertion and reason are false.

CORRECT ANSWER: C

SOLUTION:

Malignant malaria caused by *Plasmodium falciparum* is the most serious one and can even be fatal. The parasites initially multiply within the liver cells and then attack the red blood cells (RBCs) resulting in their rupture. The rupture of RBCs is associated with responsible for the chill and high fever recurring every three to four days.

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Which one of the following pairs is not correctly matched ?

- (A) Dengue - Flavi-ribo virus
- (B) Syphilis - Trichuris trichiura
- (C) Plague - Yersinia pestis
- (D) Filariasis - Wuchereria bancrofti

CORRECT ANSWER: B

SOLUTION:

Syphilis is caused by Treponema pallidum.

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Antibodies present in colostrum which protect the new born from certain diseases is of

(A) IgG type

(B) IgA type

(C) IgD type

(D) IgE type

CORRECT ANSWER: B

SOLUTION:

IgA antibody is the major antibody present in the colostrum. It protects the infant from inhaled and ingested pathogens. It is the second most abundant class of immunoglobulins, constituting about 10 % of serum immunoglobulins.

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Q-56 - 56395373

" The locus of the vertices of the family of parabolas " $y = \frac{a^3 x^2}{3} + \frac{a^2 x}{2} - 2a$ " is "

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Q-57 - 53695414

Memory cells are formed from:

(A) monocytes

(B) eosinophils

(C) neutrophils

(D) lymphocytes

CORRECT ANSWER: D

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Q-58 - 10761421

Drug called 'Heroin' is synthesized by

- (A) nitration of morphine
- (B) methylation of morphine
- (C) acetylation of morphine
- (D) glycosylation of morphine

CORRECT ANSWER: C

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Q-59 - 53695412

Rejection of tissue or organ transplants is brought about mainly by:

(A) Suppressor T-cell

(B) B-cells

(C) Cytotoxic T-cells

(D) Memory T-cells

CORRECT ANSWER: C

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Q-60 - 53695366

Polio virus enters through:

(A) food and water

(B) respiratory tract

(C) urinogential tract

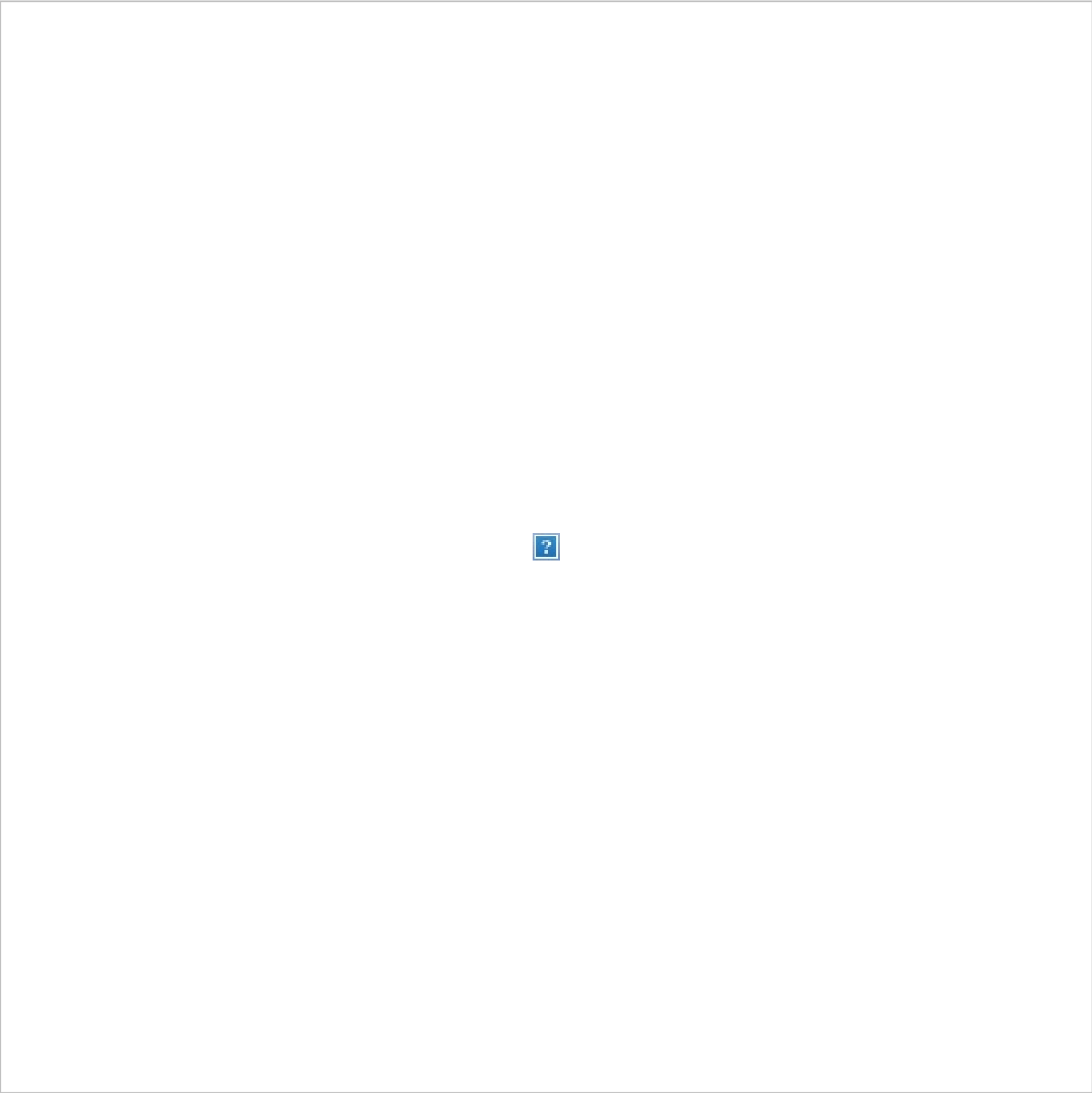
(D) inoculation by mosquito

CORRECT ANSWER: A

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Q-61 - 14621020

Identify the marking A, B, C and D in the figure given below and select the correct option.



(A) A-light chain, B- heavy chain, C- antigen binding sites, D- disulphide bonds.

(B) A - disulphide bonds, B- antigen binding site, C- heavy chains, D- light chains

(C) A-antigen binding sites, B- light chain, C- heavy chains, D- disulphide bonds

(D) A- antigen binding sites, B- disulphide bonds, C- light chains, D- heavy chains

CORRECT ANSWER: C

SOLUTION:

The given figure is a structure of an antibody molecule.

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Which of the following is a synthetic drug?

- (A) LSD
 - (B) Opium
 - (C) Cocaine
 - (D) Pethidine
-

CORRECT ANSWER: D

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Q-63 - 14621126

The chemical test that is used for diagnosis of typhoid is

- (A) ELISA- Test
- (B) ESR- Test
- (C) PCR- Test

(D) Widal -Test.

CORRECT ANSWER: D

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Q-64 - 14620991

Amoebic dysentery (amoebiasis) is caused by

- (A) Entamoeba histolytica
- (B) E.coli
- (C) Streptococcus pneumoniae
- (D) Trichophyton.

CORRECT ANSWER: A

SOLUTION:

Amoebic dysentery is caused by a monogenic protozoan

known as *Entamoeba histolytica*. The pathogen lives in the large intestine of humans. The patient passes blood along with the faeces and feels pain in the abdomen.

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Q-65 - 14621088

Heroin is commonly called as

- (A) coke
- (B) crack
- (C) smack
- (D) charas.

CORRECT ANSWER: C

SOLUTION:

Heroin, is chemically diacetylmorphine which is a white, odourless, bitter crystalline compound commonly called smack. It is obtained by acetylation of morphine which is extracted from the latex of poppy plant. (*Papaver somniferum*).

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Q-66 - 53695393

Which part of poppy plant yields opium?

- (A) Dried seeds
- (B) Dried leaves
- (C) Dried roots
- (D) Latex from unripe pods

CORRECT ANSWER: D

Q-67 - 14621085

Which of the following pproaches are used for the treatment of cancer ?

- (A) Immunotherapy
- (B) Surgery
- (C) Radiotherapy and chemotherapy
- (D) All of these

CORRECT ANSWER: D

Q-68 - 14620979

The main reason why antibiotics could not always treat the

bacteria-mediated diseases is

- (A) insensitivity of the individual following prolonged exposure to antibiotics
 - (B) inactivation of antibiotics by bacterial enzymes
 - (C) decreases efficiency of immune system
 - (D) the development of mutant bacterial strains resistant to antibiotics.
-

CORRECT ANSWER: D

SOLUTION:

In response to antibiotics, bacteria develop mutant strains that become resistant to these antibiotics. Thus these antibiotics become incapable against bacterial mediated diseases.

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Neutrophils and monocytes are important cells participating in:

- (A) phagocytosis
 - (B) perforin production
 - (C) passive immunity
 - (D) antibody production
-

CORRECT ANSWER: A

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Study of interaction of antigen and antibody in blood is

- (A) serology

(B) nephrology

(C) angiology

(D) haematology

CORRECT ANSWER: A

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Q-71 - 53695357

The vector of 'breakbone fever' is:

(A) Culex

(B) Aedes

(C) Anopheles

(D) none of these

CORRECT ANSWER: B

Q-72 - 53695475

A person with sickle cell anaemia is

- (A) More prone to malaria
- (B) More prone to typhoid
- (C) Less prone to malaria
- (D) Less prone to typhoid

CORRECT ANSWER: C

Q-73 - 14621087

In humans, receptors for opioids are present in

(A) central nervous system

(B) gastrointestinal tract

(C) respiratory tract

(D) both (a) and (b)

CORRECT ANSWER: D

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Q-74 - 53695525

What is 'pap smear'?

(A) Screening test for detection of cervix cancer

(B) Diagnostic test for detection of Human papilloma virus from cervix and vagina

(C) Testing blood smear from cervix

(D) Screen test for detection of breast cancer

CORRECT ANSWER: A

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Q-75 - 14621072

Cancer cells do not exhibit the property of

(A) generating tumors

(B) metastasis

(C) contact inhibition

(D) less number of mitochondrial cristae.

CORRECT ANSWER: C

SOLUTION:

Normal cells have the property of contact inhibition. Due to

this property they contact with other cells, and inhibit their uncontrolled growth. Cancer cells seem to have lost this property and thus undergo uncontrolled growth.

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Q-76 - 53695433

Grafting of tissue or organ between individuals of different species is called

(A) autograft

(B) isograft

(C) xenograft

(D) allograft

CORRECT ANSWER: C

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Interferons are

- (A) Protein products of macrophages which destroy microbes
 - (B) Proteins secreted by virus infected cells which protect non-infected cells from further viral infection
 - (C) Allergens
 - (D) Antibodies molecules
-

CORRECT ANSWER: B

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Find the correct statement

(A) 'Smack' is derived from 'Cannabis sativa.'

(B) Now AIDS is completely treatable with anti-retroviral drugs.

(C) Bone marrow, thymus and lymph nodes are the primary lymphoid organs.

(D) MALT constitutes about 50 percent of lymphoid tissue in human body

CORRECT ANSWER: D

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Q-79 - 53695399

The term 'brown sugar ' is used for:

(A) acetyl salicylate

(B) 9-tetrahydrocannabinol

(C) lysergic acid diethylamide

(D) diacetylmorphine hydrochloride

CORRECT ANSWER: D

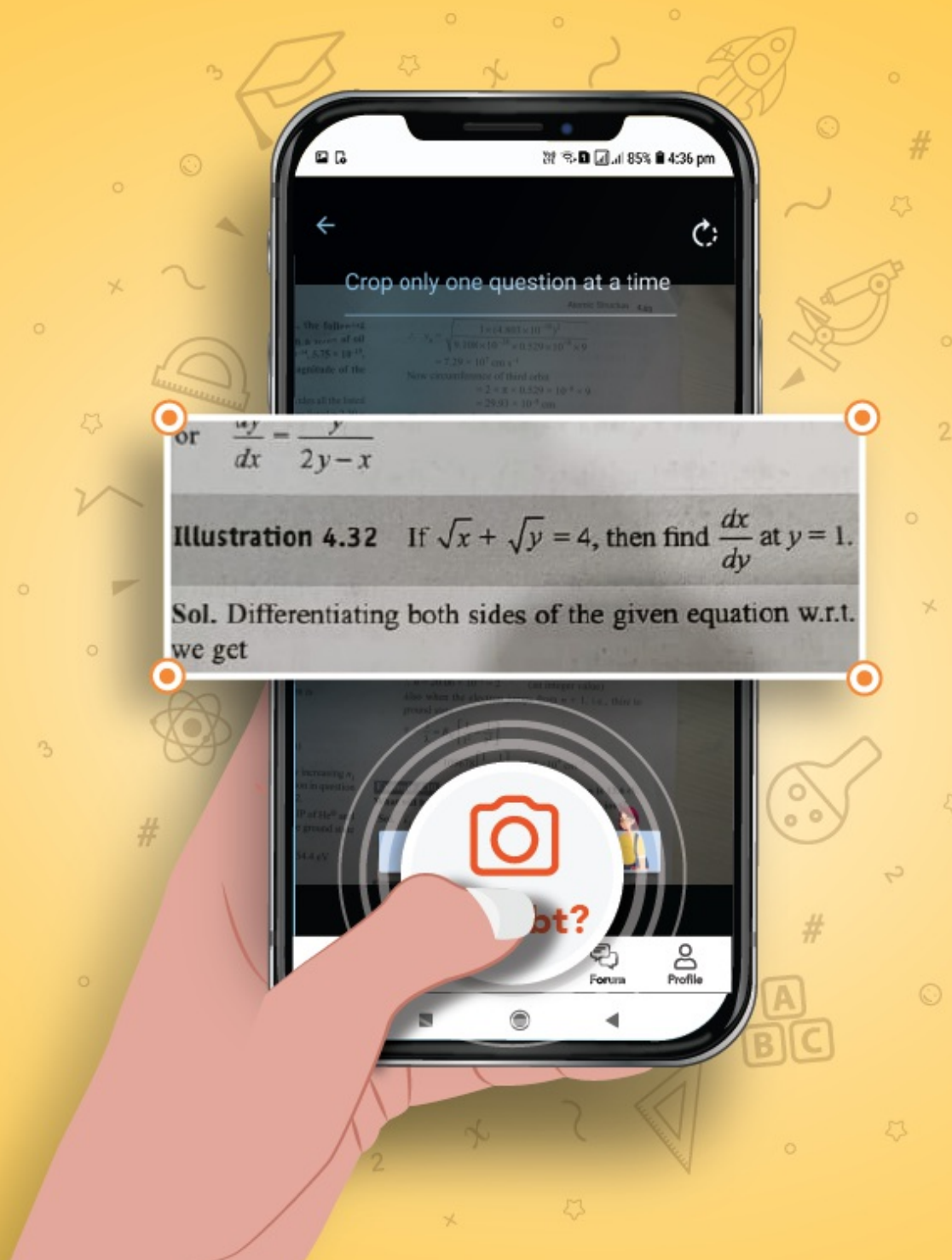
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