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**Subject: Biology**

**Topic: Biology And Human Welfare**

**M.M. 300 COMPETITIVE TEST**  **Time: 60 Min.**

1. Match column I and column II

|  |  |
| --- | --- |
| Column I | Column II |
| A. Filariasis | I. Haemophilus influenza |
| B. Amoebiasis | II. Tricophyton |
| C. Pneumonia | III. Wuchereria Bancrofti |
| D. Ringworm | IV. Entamoeba histolytica |

|  |  |
| --- | --- |
| a) A – IV ; B – I ; C – III ; D – II | b) A – III ; B – IV ; C – I ; D – II |
| c) A – I ; B – II ; C – IV ; D – III | d) A – II ; B – III ; C – I ; D – IV |

1. Match column I and column II

|  |  |
| --- | --- |
| Column I | Column II |
| A. Typhoid | I. Haemophilus influenza |
| B. Malaria | II. Wuchereria Bancrofti |
| C. Pneumonia | III. Plasmodium vivax |
| D. Filariasis | IV. Salmonella typhi |

|  |  |
| --- | --- |
| a) A – IV ; B – III ; C – I ; D – II | b) A – III ; B – IV ; C – II ; D – I |
| c) A – I ; B – III ; C – II ; D – IV | d) A – I ; B – II ; C – IV ; D – III |

1. The infectious stage of plasmodium that enters the human body is :

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

1. Identify the correct pair representing the causative agent of typhoid fever and the confirmatory test for typhoid.

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

1. In which diseases does mosquito transmitted pathogen cause chronic inflammation of lymphatic vessels?
2. Asthma may be attributed by :

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

1. Infection of Ascarias usually occurs by :

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

1. Common cold differs from pneumonia in, that

a) Pneumonia is a communicable disease, whereas the common cold is a nutritive deficiency diseases

b) Pneumonia can be prevented by a live attenuated bacterial vaccine, whereas common cold has no effective vaccine

c) Pneumonia is caused by a virus, while the common cold is caused by bacterium Haemophilus influenza

d) Pneumonia pathogen infects alveoli whereas the common cold affects nose and respiratory pathway but not lungs.

1. Match column I and column II

|  |  |
| --- | --- |
| Column I | Column II |
| A. Amoebiasis | I. Treponema pallidum |
| B. Diphtheria | II. Used only sterilized food and water |
| C. Cholera | III. DPT vaccine |
| D. Syphilis | IV. Use oral rehydration therapy |

|  |  |
| --- | --- |
| a) A – I ; B – II ; C – III ; D – IV | b) A – II ; B – IV ; C – I ; D – III |
| c) A – II ; B – I ; C – III ; D – IV | d) A – II ; B – III ; C – IV ; D – II |

1. Bovine spongiform encephalopathy is a bovine diseases. To which of the following human diseases it is related?
2. Which of the following diseases is now considered nearly eradicated from India?
3. Statement – 1 : Autoimmune disorder is a condition where body defense mechanism recognizes its own cells as foreign bodies.

Statement – 2 : Rheumatoid arthritis is a condition where body does not attack self cells.

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

1. Select incorrect statement with respect to acquired immunity.

a)

1. The process of translation of mRNA to proteins begins as soon as:

a) the larger subunit of ribosome encounters m RNA

b) both the subunits joins together to bind with mRNA

c) the tRNA activated and he larger subunit of ribosome encounters mRNA

d) the small subunit of ribosome encounters mRNA

1. Read the following statements and choose the correct set :
2. Euchromatin is loosely packed chromatin
3. Heterochromatin is transcriptionally active
4. Histones octamer is wrapped by negatively charged DNA in nucleosome
5. Histones are rich in lysine and arginine.
6. A typical nucleosome contains 400 base pairs of DNA helix.

|  |  |  |  |
| --- | --- | --- | --- |
| a) I , III & IV | b) II , V | c) I , III , V | d) II , IV , v |

1. If the length of DNA molecule is 1.1 m what will be the approx. number of base pairs?

|  |  |  |  |
| --- | --- | --- | --- |
| a) 6.6 x 109 bp | b) 3.3 x 106 bp | c) 6.6 x 106 bp | d) 3.3 x 109 bp |

1. Ten E.coli cells with 15N ds DNA incubated in medium containing 14N nucleotide. After 60 minutes, how many E.coli cells will have DNA total free from 15N?

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

1. Which one of the following statements about histones is wrong?

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

Which is the only enzyme that has capability to catalyze initiation , elongation and termination in the process of transcription