



DMLT/DMRT EXAMINATION BOARD, ODISHA
Final D.M.L.T. Annual Exam Of 2019

QUESTIONS (MICROBIOLOGY : PAPER-II)
(Immunology, Serology, Parasitology & Virology)
Answer all Questions Time:3 hours// Full Marks-100

1: Answer any two of following **(15X2=30)**

- a) Name the causative agent and infective form of amoebic dysentery. Write in short the life cycle, pathogenesis and laboratory diagnosis of amoebic dysentery.
- b) Classify immunoglobulins and write functions of each.
- c) Name the causative agent and vector of Kalazar. Write in detail the life cycle and laboratory diagnosis of Kalazar.

2 :Write Short notes **(5x10=50)**

- a) Agglutination reaction
- b) Hydatid cyst
- c) Lab. Diagnosis of Filariasis
- d) Cerebral Malaria
- e) Polio vaccines
- f) Swine flu
- g) Examination of stool for ova and cyst of parasites
- h) Antibiotic susceptibility test
- l) Round worm infestation
- j) Systemic fungi

3: Write correct answers from the following MCQs: **(2X10=20)**

(a) Reaction between a particulate antigen with its antibody is called:

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|--------------------|---------------------------|
| (i) Agglutination | (iii) Complement fixation |
| (ii) Precipitation | (iv) Diffusion |

(b) Polio virus is primarily transmitted by:

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|--------------------|------------------------|
| (i) Sexual contact | (iii) Faeco-oral route |
| (ii) Animal bite | (iv) Respiratory route |

(c) Multiple ring form within an infected RBC are seen in:

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|----------------------------|--------------------------|
| (i) Plasmodium Vivax | (iii) Plasmodium ovale |
| (ii) Plasmodium falciparum | (iv) Plasmodium malariae |

(d) The antibody that can cross placental barrier is

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| (i) IgA | (iii) IgG |
| (ii) IgM | (iv) IgE |

(e) Swineflu is caused by:

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|---------------------|----------------------|
| (i) SARS-CoV | (iii) H1N1 influenza |
| (ii) H5N1 influenza | (iv) Hanta virus |

(f) A sudden increase in number of cases of a particular disease in which the disease is normally endemic called:

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|---------------|-----------------------|
| (i) Endemic | (iii) Pandemic |
| (ii) Epidemic | (iv) Emerging illness |

(g) Which of the following causes iron deficiency anaemia:

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|-----------------------------------|--------------------------------------|
| (i) <i>Ascaris lumbricoides</i> | (iii) <i>Enterobius Vermicularis</i> |
| (ii) <i>Ancylostoma duodenale</i> | (iv) <i>Tricuris trichunia</i> |

(h) Antibodies are produced by:

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|-------------------|--------------------------------|
| (i) T Cells | (iii) Antigen presenting cells |
| (ii) Plasma Cells | (iv) Macrophages |

(i) Which immunoglobulin is responsible for anaphylaxis:

- | | |
|----------|-----------|
| (i) IgA | (iii) IgE |
| (ii) IgM | (iv) IgG |

(j) Which of the following is a cestode:

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|--------------------------------------|--|
| (i) <i>Ascaris lumbricoides</i> | (iii) <i>Strongyloides stercoralis</i> |
| (ii) <i>Enterobius Vermicullaris</i> | (iv) <i>Taenia Solium</i> |
