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MICROBIOLOGY

PAPER-III

Time: 3 hours MICRO/J/19/18/III

Max. Marks:100

Important Instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1.	Enumerate the leishmanial diseases and their vectors in India. Briefly discuss visceral leishmaniasis and the challenges in management of visceral leishmaniasis in India.	4+6
2.	a) Enumerate the malarial parasites causing disease in India.b) Drug resistance in malaria in India.	3+7
3.	a) Enumerate the parasitic agents causing meningoencephalitis.b) Eosinophilic meningoencephalitis.	4+6
4.	a) Enumerate the trematode infections with etiological agents prevalent in India.b) Lung fluke infection in India.	4+6
5.	Enumerate the agents causing intestinal coccidial infections in man. Give an outline of laboratory diagnosis of these infections.	3+7
6.	Changing epidemiology of influenza virus outbreaks.	10
7.	Human papilloma virus infection and its prevention.	6+4
8.	a) Enumerate the oncogenic viruses.b) Viral oncogenesis.	2+8
9.	a) Draw a labelled diagram of human immunodeficiency virus (HIV).b) Molecular epidemiology of HIV infection in India.	4+6
10.	Current status of re-emergence of measles virus infections and its prevention.	5+5
