THE BLACK DEATH - BUBONIC AND PNEUMONIC PLAGUE

A. HISTORY OF THE PLAGUE

1. JUSTINIAN’S PLAGUE – 542 AD – FIRST PANDEMIC
   a. ROMAN EMPIRE AT BYZANTIUM
   b. JUSTIN TRIED TO CONSOLIDATE EMPIRE & RECAPTURE WESTERN PARTS OF EMPIRE
   c. PLAGUE FROM CHINA TO ASIA MINOR TO EUROPE
   d. 300k DIED IN CONSTANTINOPLE
   e. RECORDED BY PROCOPIUS, A GREEK HISTORIAN

2. THE BLACK DEATH OF THE 14TH CENTURY – 2ND PANDEMIC
   a. BUBONIC AND PNEUMONIC PLAGUE
   b. ENDEMIC IN CENTRAL CHINA
      PASSED ALONG TRADE ROUTES (1320) TO THE BLACK SEA (CITY OF CAFFA) BY 1345
   c. INVADED NORTH AFRICA (ALEXANDRIA & CAIRO)
   d. SICILY AND ITALY IN 1347
   e. ENGLAND & GERMANY BY 1349
   f. THE FLAGELLANTS & JEWISH PERSECUTIONS
   g. RETURNED MANY TIMES TO EUROPE 1361–62 "PESTIS SECUNDA"
      1478–80

3. THE GREAT PLAGUE OF LONDON – 1664
   a. 70,000 DEATHS IN LONDON IN ONE YEAR
   b. DOCUMENTED IN SAMUEL PEPYS’ DIARY

4. THE BOMBAY PLAGUE (3RD GREAT PANDEMIC) – 1894
   a. ASIA (OUT OF YUNNAN CHINA)
   b. SPREAD TO AUSTRALIA, EUROPE & AMERICA
   c. BECAME ENDEMIC IN SW USA

B. THE DISEASE

1. TRANSMISSION
   RESERVOIRS
   INSECTS
   DISTRIBUTION

2. INCUBATION

3. SYMPTOMS

4. TREATMENT

5. PREVENTION

6. INCIDENCE

C. THE AGENT – YERSENIA PESTIS

1. A γ-PROTEOBACTERIUM

2. BIPOLAR GRAM NEGATIVE ROD