

VPM's B. N. Bandodkar College of Science Thane
Human Sciences F.Y.B.Sc; Course- USHSC101
ATKT Semester I - 2018-19

H.S
extra

Duration: 2.5 hrs

Total Marks: 75

N.B: 1. All questions are compulsory.

2. Figures to the right indicate marks.

3. Draw neat and labeled diagrams wherever necessary

- Q.1) (A) Give the Contribution of Robert Boyle & John Dalton. (7)
OR
(A) Explain the Concept & History of Alchemy. (7)
(B) Define Scientific revolution. Explain the prominent discoveries during this period. (8)
OR
(B) Explain Contribution of Copernicus & Johannes Kepler. (8)
(C) Attempt any ONE of the following: (5)
(i) Explain Scientific method with examples.
(ii) Write a note on Contribution of Homi Jehangir Bhabha.
- Q.2) (A) Explain Urey & Miller's Experiment with the help of diagram. (7)
OR
(A) Explain Origin of earth & Formation of Water, Ammonia & Methane. (7)
(B) Explain theory of Biogenesis with Spallanzani's & Louis Pasteur's Experiment. (8)
OR
(B) Define Evolution. Explain History of Evolutionary ideas. (8)
(C) Attempt any ONE of the following: (5)
(i) Write a note on Redi's Experiment.
(ii) Write a note Baer's Law.
- Q.3) (A) Describe Microfossils & its Types. (7)
OR
(A) Explain Radiometry. (7)
(B) Define Stromatolites & its Morphology. (8)
OR
(B) Explain Types of Fossilization. (8)
(C) Attempt any ONE of the following: (5)
(i) Write a note on Paleocology.
(ii) Write a note on Process of Fossilization.
- Q.4) Attempt Any THREE of the following: (15)
(i) Explain with examples Ancient Indian Applied Science.
(ii) Explain the Contribution of Vikram Sarabhai & Srinivasa Ramanujan.
(iii) Write a note on Theory of Organic Evolution.
(iv) Write a note Ape – stage with suitable examples.
(v) Write a note on Porifera.
(vi) Write a note on Biostratigraphy.
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