International Institute of Health Management Research (IIHMR)
NEW DELHI
Health care IT   Batch- 2017- 19
Supplementary Exam

Time – 3 Hrs   **Total marks: 70**

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Bioinformatics   HIT - 711

Part A

Answer any eight of the following.   5X8= 40

1. Explain genetic code

2. Write short notes on any two: a)PDB b) EMBL c)Swissprot

3. Structure of DNA

4. Explain global and local sequence alignment

5. Explain PAM and BLOSSUM matrices in short

6. Write short note on Transcription process

7. Human Genome Sequencing

8. Concept of homology

9. Give a brief on Pubmed Search

10. Write short notes on translational research

Part B

Answer the following (No Choice)   30 marks

Given the following sequences a) AGGCTCGC b) GGCTCGCC c) AGCTCGAA

a) Which of the two sequences are highly similar?. Identify using local sequence alignment. Match = +3 Mismatch = 1 gap = 0

b) Take the above identified highly similar sequence and perform a global alignment between them. Match = +1, Mismatch = 0, gap = -1