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(47)

FEDERAL PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS
IN BPS-17, UNDER THE FEDERAL GOVERNMENT, 2005

COMPUTER SCIENCE

TIME ALLOWED: 3 HOURS MAXIMUM MARKS: 100

NOTE: Attempt FIVE questions in all, including QUESTION NO. 8 which is COMPULSORY. Select at least ONE question from each of the SECTIONS-I, II, and III. All questions carry equal marks.

SECTION-I

1. a) What is distributed processing? Also explain distributed data processing. (10)
b) How would shared memory be used to communicate data between two processors? (10)
2. a) Explain different methods for processing of data files. (10)
b) What are network protocols? Explain any two common LAN protocols. (10)
3. a) Explain any three widely used media for wireless communication. (10)
b) What is pipelining? Hence also explain the strategy of parallel processing. (10)

SECTION-II

4. a) Explain the term Information Hiding. Also differentiate between Top-down Design and Bottom-up Design. (10)
b) Discuss, Verify, the main characteristics of object oriented programming. (10)
5. a) Show that by removing at most $O(\log_2 n)$ edges, we can partition the vertices of any n -vertex tree into two sets A and B such that $|A| = \lfloor n/2 \rfloor$ and $|B| = \lceil n/2 \rceil$. (10)
b) Give an efficient algorithm to determine if an undirected graph is bipartite. (10)

SECTION-III

6. a) Differentiate between an operational database and a warehouse. What types of applications does each serve? (10)
b) What is the difference between a data entity in second normal form (2NF) and third normal form (3NF)? Give an example of an entity in 2NF and show its conversion to 3NF. (10)
7. a) What is Client Side Programming? (10)
b) What are the tools to develop website test and viewable? (10)

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