Q1 . Basic communication operations are *

- One to all broadcast
- All to all broadcast
- All to one reduction
- All of above

Q2. In ring and linear array link can be efficiently utilised by broadcasting and using *

- Recursive algorithm
- Recursive doubling algorithm
- Linear algorithm
- All of above

Q3.Effective and accurate implementation of communication operations in parallel algorithm design will

- Decrease efforts
- Decrease development cost
- Develope Quality software
- All of above

Q4 . Total number of steps required in one to all broadcast on 16-node mesh are *

- 1
- 2
- 3
- 4

Q5. A hypercube with 2^d nodes can be regarded as *

- d dimensional
- N dimensional
- K dimensional
- None of above

Q6.In balanced binary tree leaf nodes are processors and internal nodes are

- Processor
- Routing nodes
- Inert nodes
- All of above

Q7 . In general one to all broadcast algorithm initial mask equal to *

- 3^d-1
- 2^d-1
- Both of above
- None of above

Q8.Inorder to convert virtual destination to the label of the physical destination in broadcast algorithm you can use *

- Logical AND operator
- Logical OR operator
- Logical XOR operator
- None of above

Q9.In all to one reduction algorithm initial mask equals

- One
- Zero
- Two
- All of above

Q10. In general one to all broadcasting involves *

- Log p steps
- 2^d-1 steps
- Both of above
- None of above

Q11. In all to all broadcast each processor is *

- Destination only
- Source only
- Source as well as Destination
- None of above

Q12.in all to all broadcast on hypercube

- Partner=my_id XOR 2^i
- Partner=my_id OR 2^i
- Partner=my_id
- All of above

Q1 3. In prefix sum operation on hypercube Partner= *

- My_id XOR 2^i
- My_id OR 2^i
- Both of above
- None of above

Q14. In prefix sum operation on hypercube prefix sum accumulated on *

- Low label node in pair
- High label node in pair
- Both of above
- None of above

Q15.we can port algorithm for higher dimensional network eg.hypercube into ring network.is it possible?

- It is possible
- It is not possible
- Both of above
- None of above

Q1 6. In Scatter operation *

- only one node sending unique message to other nodes in network
- All nodes sending distinct message to other nodes in network
- Both of above
- None of above

Q17. In gather operation *

- more than nodes collects a unique message from each node.
- a single node collects a unique message from each node.
- Both of above
- None of above

Q18. In all to all personalized communication

- Each node has a distinct message of size m for every other node.
- Each node has a unique message of size m for every other node.
- Both of above
- None of above

Q19 . In all to all personalized communication on ring , the size of the message reduces by *

- 3m at each step
- 2m at each step
- M at each step
- None of above

Q20. In all to all personalized communication using hypercube we have log p iterations and ..... * Words are communicated in each iteration.

- mp words
- mp/2 words
- Both of above
- None of above

Q21. In all to all personalized communication

- Each node has a distinct message of size m for every other node.
- Each node has a unique message of size m for every other node.
- Both of above
- None of above