English

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**Question 1:** Choose the correct verb to fill the gap.

By the end of the year, she _____ with a degree in business.

1. already graduates
2. already graduated
3. will have already graduated
4. has already graduated

**Question 2:** Choose the synonym for the following word Hallowed

1. Sacred
2. Old
3. Inactive
4. Effective

**Question 3:** As _____ cuts it as well as he does, I always have my hair cut at Johnson's.

1. anyone
2. someone else's
3. no one else
4. everyone

**Question 4:** Mohit _____ his century before it is the end of the match.

1. will score
2. will have scored
3. has scored

4. scores

**Question 5:** Which word is a adverb in this sentence?

There are no interesting programmes tonight.

1. interesting
2. programmes
3. there
4. tonight

## Computer Applications

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**Question 1** Which of the following is true about Lock-compatibility matrix:

1. Shared – shared True
2. Shared – Exclusive True
3. Exclusive - Shared True
4. Exclusive – Exclusive True

**Question 2** Which of the following recovery scheme is also known as redo only scheme:

1. Deferred Database Modification
2. Immediate Database Modifications
3. Shadow Paging
4. None of these

**Question 3** When a derived class inherits from many base classes, this process is known as?

1. Multiple Inheritance
2. Multilevel Inheritance
3. Hierarchical Inheritance
4. Hybrid Inheritance

**Question 4** Switch is a Device of _____ Layer of OSI Model.

1. Network Layer
2. Data Link Layer
3. Application Layer
4. Session Layer

**Question 5** Which of following software process model suggests a systematic, sequential approach to software development that begins at the system level and progresses through analysis, design and other steps in sequence?

1. Prototyping model
2. Spiral model
3. Waterfall model
4. RAD model

## Mathematics

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**Question 1** The number of elements in the power set P(S) of the set S = {2,{1,4}} is:-

1. 8
2. 4
3. 2
4. None of these

**Question 2** If A = {1,2,3,4} and R = {(1,3),(3,4),(1,4)}, then R is:-

1. Symmetric
2. Transitive
3. Reflexive
4. None of these

**Question 3** If |z| = |z - 1|, then:-

1. Re(z) = 1
2. Im(z) = 1
3. Re(z) = 1/2
4. Im(z) = 1/2

**Question 4** If the system of equations x+2y-3z=1, (p+2)z=3, (2p+1)y+z=2 is inconsistent, then what is the value of p?

1. -1/2
2. 2
3. -2
4. 0

**Question 5** If f(x) = |x + 2|, then:-

1. f(|x|) = |f(x)|
2. f(x+y) = f(x) + f(y)
3. f(x.y) = f(x).f(y)
4. None of these

## General Aptitude

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**Question 1** If a: b = 2:3 and b: c = 4:3, then find a: b: c

1. 2:3:9
2. 8:12:9
3. 2:3:8
4. None of the above

**Question 2** A tire has two punctures. The first puncture alone would have made the tire flat in 9 minutes and the second alone would have done it in 6 minutes. If air leaks out at a constant rate, how long does it take both the punctures together to make it flat?

1. 16/5 min
2. 13/3 min
3. 13/4 min
4. 18/5 min

**Question 3** A man takes 5 hours 45 min in walking to a certain place and riding back. He would have gained 2 hours by riding both ways. The time he would take to walk both ways is:-

1. 8hrs 45min
2. 7hrs 45min
3. 7hrs
4. 11hrs

**Question 4** The angle between the minute hand and the hour hand of a clock when the time is 8.30, is: -

1. 75
2. 85
3. 80
4. 65

**Question 5** On what dates of April, 2001 did Wednesday fall?

1. 7th, 12th, 19th, 25th
2. 4th, 11th, 18th, 25th
3. 5th, 12th, 19th, 26th
4. 6th, 12th, 18th, 26th