

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**MASTER OF SCIENCE (M.Sc) IN COMPUTER APPLICATIONS**  
**EXAMINATION : DECEMBER - 2025**  
**SEMESTER – III**

**Sub: Web Application Development using. Net (MSC24-304)**

**Date : 26/12/2025**

**Total Marks : 60**

**Time: 2.00 pm to 4.30 pm**

**Instruction:**

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagram wherever necessary.

**Q. 1. Answer the following in 2 - 3 lines. (Any 5)**

**(10)**

1. What is assembly?
2. Why master pages are used?
3. What is a web service?
4. What is JIT? State JIT's role.
5. What is a session?
6. State 2 techniques for client side state management.
7. What is partial class?

**Q. 2. Answer the following in short. (Any 4)**

**(20)**

1. What is CLR? Explain functions of CLR.
2. Write down the structure of Global.asax.
3. Write ASP.Net program to upload a JPG file using file upload control.
4. Write a C# program to demonstrate use of abstract class.
5. Differentiate ASP & ASP.net
6. What is boxing & Unboxing?

**Q. 3. Answer the following in detail. (Any 3)**

**(30)**

1. Explain all validator controls in ASP.Net.
2. Write a program in C# for compile time & runtime polymorphism.
3. Describe dot net framework with diagram.
4. Explain objects used in connected database architecture. Write a program to save the record using connected architecture.
5. Discuss in detail different stages in the life cycle of a web page.

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