

C 83625

(Pages : 2)

Name.....17

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2015
(CUCSS)

Mathematics

MT 2C 08 TOPOLOGY—I

Time : Three Hours

Maximum : 36 Weightage

Part A (Short Answer Type Questions)

Answer all the questions.
Each question has weightage 1.

1. Write the discrete topology on a set $S = \{1, 2, 3\}$.
2. Give examples of two topologies on a finite set X such that one is weaker than the other.
3. Define co-finite topology.
4. Give an example of an open set, which is not an open interval in the set of real numbers with usual topology. Justify your claim.
5. Write a base for the set of real numbers with usual topology.
6. Define accumulation point of a subset of a topological space. Illustrate using an example.
7. Define quotient map from one topological space to another. Give an example.
8. Define topological property. Write examples of any two topological properties.
9. Give an example of a topological space that is T_0 but not T_1 .
10. Give an example of a topology on the set of real numbers that is not Hausdorff.
11. Define Tychonoff space.
12. Write an example of a T_4 space.
13. Define second countability and separability in topological space. write a relation between the two.
14. State the Lebesgue covering lemma.

(14 × 1 = 14 weightage)

Part B (Paragraph Type Questions)

Answer any seven questions.
Each question has weightage 2.

15. Define a metric on the set of real numbers other than the usual metric.
16. Prove that every T_2 space is T_1 . Using an example prove that the converse is not true.
17. Let τ_1 and τ_2 be topologies on a set X and Y be a subset of X . Then prove that if τ_1 is stronger than τ_2 then $\tau_1|_Y$ is stronger than $\tau_2|_Y$.

Turn over

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M Mark



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