SYLLABUS FOR PERIODIC WRITTEN TEST 3

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| TOPICS | WEITAGE |
| TRIGONOMETRIC IDENTITIES : Proof and applications of the identity sin2A + cos2A = 1. Only simple identities to be given.Trigonometric ratios of complementary angles. | 8 |
| HEIGHTS AND DISTANCES: Angle of elevation, Angle of Depression.  Simple problems on heights and distances. Problems should not involve more than two  right triangles. Angles of elevation / depression should be only 30°, 45°, 60°. | 7 |
| AREAS RELATED TO CIRCLES :  Motivate the area of a circle; area of sectors and segments of a circle. Problems based  on areas and perimeter / circumference of the above said plane figures. (In calculating  area of segment of a circle, problems should be restricted to central angle of 60°, 90°  and 120° only. Plane figures involving triangles, simple quadrilaterals and circle should  be taken.) | 9 |
| SURFACE AREAS AND VOLUMES :  1. Surface areas and volumes of combinations of any two of the following: cubes, cuboids,  spheres, hemispheres and right circular cylinders/cones. Frustum of a cone.  2. Problems involving converting one type of metallic solid into another and other mixed  problems. (Problems with combination of not more than two different solids be taken). | 10 |
| STATISTICS (18) Periods  Mean, median and mode of grouped data (bimodal situation to be avoided). Cumulative  frequency graph. | 9 |
| PROBABILITY (10) Periods  Classical definition of probability. Simple problems on finding the probability of an  event. | 7 |