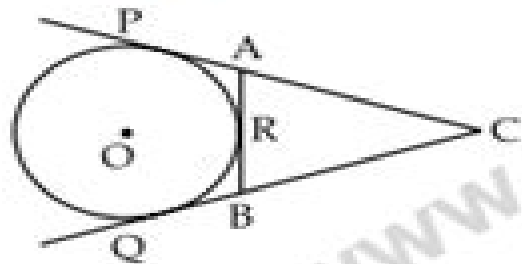


## SECTION - A

Question numbers 1 to 10 carry 1 mark each. Questions 1 to 10 are provided with 4 alternatives out of which only one is correct. Select the correct answer :

1. If  $r = 3$  is a root of quadratic equation  $kr^2 - kr - 3 = 0$  value of  $k$  is :  
 (A)  $\frac{1}{2}$  (B) 2 (C)  $-2$  (D)  $-\frac{1}{2}$
2. The sum of all natural numbers from 1 to 100 is :  
 (A) 4050 (B) 5050 (C) 6050 (D) 7050
3. The length of tangent drawn from a point 8 cm away from centre of circle of radius 6 cm is :  
 (A)  $\sqrt{5}$  cm (B)  $2\sqrt{5}$  cm (C) 5 cm (D)  $2\sqrt{7}$  cm
4. If radii of two concentric circles are 6 cm and 10 cm, then length of chord of the larger circle which is tangent to other is :  
 (A) 8 cm (B) 10 cm (C) 12 cm (D) 16 cm
5. In Fig. 1, CP, CQ are tangents to a circle with centre O. ARB is another tangent to touching the circle at R. If  $CP = 11$  cm,  $BC = 7$  cm. Length of BR is :



- (A) 1 cm (B) 2 cm (C) 3 cm (D) 4 cm

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**Sk. Mustak, Dharmaveer  
Singh, Prashant Kumar Srivastava**

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diagnostic techniques c epidemiological characterization and d population modeling and intervention      **Advanced Remote Sensing for Urban and Landscape Ecology** Sk. Mustak,Dharmaveer Singh,Prashant Kumar Srivastava,2023-06-23 This book introduces the use of various remote sensing data such as microwave hyperspectral and very high resolution VHR satellite imagery mapping techniques including pixel and object based machine learning and geostatistical modelling techniques including cellular automation entropy and land fragmentation Remote sensing plays a vital role in solving urban and environmental challenges at the landscape level Globally more than half of the urban population is facing severe environmental and social challenges especially those relating to climate change agricultural land encroachment green infrastructure and environmental degradation mobility due to rapid rural urban transformation and anthropogenic interventions Mapping and quantification of such threats at the landscape level are challenging for experts using traditional techniques however remote sensing technology provides diverse spatial data at a varying scale volume and accessibility for mapping and modelling and it also analyses challenges at urban and landscape levels Together they address challenges at urban and landscape levels to support the Sustainable Development Goals SDGs      *Women in conservation and restoration ecology 2022* Diana Hamilton,Myriam A. Barbeau,Isabel Marques,Clare Morrison,Alienor Chauvenet,2024-04-30      **Future Oceans Under Multiple Stressors: From Global Change to Anthropogenic Impact** Erik Olsen,Isaac C. Kaplan,Cecilie Hansen Eide,Elizabeth A. Fulton,Michael J. Fogarty,Jamie C. Tam,Saskia Anna Otto,2020-12-30 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact      Current Trends in Dynamical Systems in Biology and Natural Sciences Maira Aguiar,Carlos Braumann,Bob W. Kooi,Andrea Pugliese,Nico Stollenwerk,Ezio Venturino,2020-05-06 This book disseminates the latest results and envisages new challenges in the application of mathematics to various practical situations in biology epidemiology and ecology It comprises a collection of the main results presented at the Ninth Edition of the International Workshop Dynamical Systems Applied to Biology and Natural Sciences DSABNS held from 7 to 9 February 2018 at the Department of Mathematics University of Turin Italy While the principal focus is ecology and epidemiology the coverage extends even to waste recycling and a genetic application The topics covered in the 12 peer reviewed contributions involve such diverse mathematical tools as ordinary and partial differential equations delay equations stochastic equations control and sensitivity analysis The book is intended to help both in disseminating the latest results and in envisaging new challenges in the application of mathematics to various practical situations in biology epidemiology and ecology      **Symmetry and Exact Solutions of Nonlinear Mathematical Physics**

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