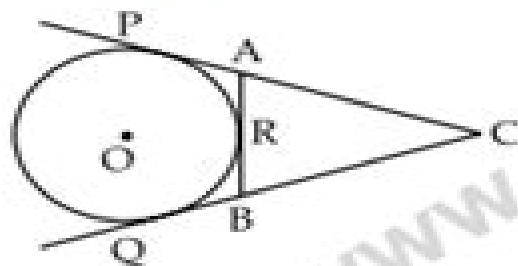


SECTION - A

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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**Diana Hamilton, Myriam A.
Barbeau, Isabel Marques, Clare
Morrison, Alienor Chauvenet**

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Applications of STEM (Science, Technology, Engineering and Mathematics) Tools in Microbiology of Infectious Diseases

Julio Alvarez, Andres Perez, 2017-06-02 Epidemiology is a discipline intended to systematically investigate and ideally quantify disease dynamics in populations. Perez 2015 Epidemiological assessments may be divided into four large areas, namely: a) identification and characterization of a pathogen; b) development of systems for detection of cases; c) descriptive epidemiology and quantification of disease patterns; and d) advanced analytical methods to design intervention strategies. Briefly, there is an initial need for understanding the pathogenicity of a disease and condition, which may also include experimental studies and development of new models of infection and proliferation under different conditions. Subsequently, such knowledge may be applied to support the identification of cases, which typically includes the design, evaluation and validation of diagnostic tests. Diseases may then be quantified in a population, leading to the identification of patterns and application of molecular characterization techniques to understand disease spread and ultimately to identify factors preventing or promoting disease. Finally, those factors may be incorporated into advanced quantitative methods and epidemiological models, which are used to design and evaluate strategies aimed at preventing, controlling or eliminating disease in the population. Recent years have seen a dramatic increase in the application of science, technology, engineering and mathematical STEM tools and approaches intended to enhance such analytical epidemiology process with the ultimate goal of supporting disease prevention, control and eradication. This eBook comprises a series of research articles that, through current state of the art scientific knowledge on the application of STEM tools to the microbiology of infectious diseases, demonstrate their usefulness at the various components of an integral epidemiological approach divided into the four large components of a) experimental studies; b) novel

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 *Symmetry and Exact Solutions of Nonlinear Mathematical Physics Equations* Gangwei

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Why Women Will Save the Planet Friends of the Earth,C40 Cities,2018-03-01 Big cities don t have to mean a dystopian future They can be turned around to be powerhouses of well being and environmental sustainability if we empower women This book is a unique collaboration between C40 and Friends of the Earth showcasing pioneering city mayors key voices in the environmental and feminist movements and academics The essays collectively demonstrate both the need for women s empowerment for climate action and the powerful change it can bring A rallying call for the planet for women for everyone

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