

SECTION A

* Select and write one most appropriate option out of the four options given for each of the questions [19]

1. Rays from Sun converge at a point 15cm in front of a concave mirror. Where should an object be placed so that size of its image is equal to the size of the object?

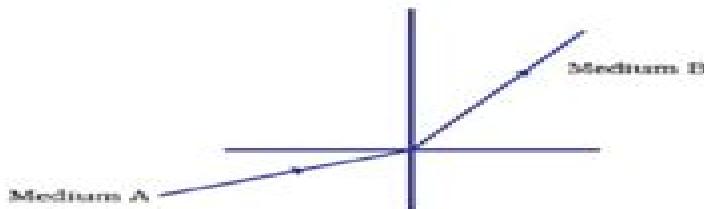
- a. 15cm in front of the mirror.
- b. 30cm in front of the mirror.
- c. Between 15cm and 30cm in front of the mirror.
- d. More than 30cm in front of the mirror.

Ans. :

- b. 30cm in front of the mirror.

Explanation: In this case, $f = -15\text{cm}$ and hence $c = -30\text{cm}$; because radius of curvature is double the focal length. When an object is placed on C, its image is of the same size, inverted and is formed on C.

2. A light ray enters from medium A to medium B as shown in Figure. The refractive index of medium B relative to A will be:



- a. Greater than unity.
- b. Less than unity.
- c. Equal to unity.
- d. Zero.

Ans. :

- a. Greater than unity.

Explanation: Since light rays in medium B goes towards normal. So it has greater refractive index and lesser velocity of light with respect to medium A. So refractive index of medium B with respect to medium A is greater than unity.

3. You are given water, mustard oil, glycerine and kerosene. In which of these media a ray of light incident obliquely at same angle would bend the most?

- a. Kerosene.
- b. Water.
- c. Mustard oil.
- d. Glycerine.

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Science Blogging Christie Wilcox, Bethany Brookshire, Jason G. Goldman, 2016-03-01 Here is the essential how to guide for communicating scientific research and discoveries online ideal for journalists researchers and public information officers looking to reach a wide lay audience Drawing on the cumulative experience of twenty seven of the greatest minds in scientific communication this invaluable handbook targets the specific questions and concerns of the scientific community offering help in a wide range of digital areas including blogging creating podcasts tweeting and more With step by step guidance and one stop expertise this is the book every scientist science writer and practitioner needs to approach the Wild West of the Web with knowledge and confidence

Handbook of Effective Inclusive Schools James McLeskey, Fred

Spooner, Bob Algozzine, Nancy, L. Waldron, 2014-05-16 Over the last decade the educational context for students with disabilities has significantly changed primarily as a result of mandates contained in NCLB and IDEA The purpose of this book is to summarize the research literature regarding how students might be provided classrooms and schools that are both inclusive and effective Inclusive schools are defined as places where students with disabilities are valued and active participants in academic and social activities and are given supports that help them succeed Effectiveness is addressed within the current movement toward multi tiered systems of support and evidence based practices that meet the demands of high stakes accountability

[Content-Based Curriculum for Advanced Learners](#) Joyce VanTassel-Baska, Catherine A.

Little, 2023-01-23 The fourth edition of Content Based Curriculum for Advanced Learners provides readers with a complete and up to date introduction to core elements of curriculum development in gifted education with implications for school based implementation Written by key experts in the field this text is essential to the development of high powered rich and complex curricula that treat content process product and concept development considerations as equal partners in the task of educating gifted learners Along with revised chapters this edition contains new chapters on culturally responsive curriculum the performing arts robotics and engineering design as well as social and emotional learning Additional material concerning talent trajectories across the lifespan accompanies a discussion of honors curriculum in higher education rounding out this comprehensive resource This master text is a must read for educators interested in executing effective curriculum and instructional interventions to support learning for gifted and advanced learners

Stem, steam, computational thinking and coding: Evidence-based research and practice in children's development Stamatis Papadakis, Michail Kalogiannakis, Ali Ibrahim Can Gözüm, 2023-03-13

Sustainable Plastics Joseph P. Greene, 2014-09-22

Providing guidelines for implementing sustainable practices for traditional petroleum based plastics biobased plastics and recycled plastics Sustainable Plastics and the Environment explains what sustainable plastics are why sustainable plastics are needed which sustainable plastics to use and how manufacturing companies can integrate them into their manufacturing operations A vital resource for practitioners scientists researchers and students the text includes impacts of plastics

including Life Cycle Assessments LCA and sustainability strategies related to biobased plastics and petroleum based plastics as well as end of life options for petroleum and biobased plastics *Resources in Education* ,1998 [Handbook of Special Education](#) James M. Kauffman,Daniel P. Hallahan,Paige Cullen Pullen,2017-05-25 The purpose of the Handbook of Special Education is to help profile and bring greater clarity to the already sprawling and continuously expanding field of special education To ensure consistency across the volume chapter authors review and integrate existing research identify strengths and weaknesses note gaps in the literature and discuss implications for practice and future research The second edition has been fully updated throughout to take into account recent changes to federal laws as well as the most current academic research and an entirely new section has been added on research methods in special education *Cumulative Index to Nursing Literature* Cinahl Information Systems Staff,1999 *Physics. Exemplar Materials. Practical Investigations* ,1989

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