

(8) *Physical Constants :*

- (i)  $h = 6.63 \times 10^{-34} \text{ Js}$
- (ii)  $c = 3 \times 10^8 \text{ m/s}$
- (iii)  $\pi = 3.142$
- (iv)  $g = 9.8 \text{ m/s}^2$
- (v)  $\epsilon_0 = 8.85 \times 10^{-12} \text{ C}^2/\text{Nm}^2$
- (vi)  $\mu_0 = 4\pi \times 10^{-7} \text{ Wb/A}\cdot\text{m}$
- (vii)  $\sigma = 5.67 \times 10^{-8} \text{ W/m}^2\text{K}^4$
- (viii)  $1 \text{ atm} = 1.013 \times 10^5 \text{ N/m}^2$
- (ix)  $R = 8.319 \text{ J/mol}\cdot\text{K}$

## SECTION – A

1. Select and write the correct answers for the following multiple choice type of questions :

[10]

- (i) "If two systems are each in thermal equilibrium with a third system, they are also in thermal equilibrium with each other." This statement refers to :
  - (a) zeroth law of thermodynamics
  - (b) first law of thermodynamics
  - (c) second law of thermodynamics
  - (d) Carnot's law
- (ii) In Bernoulli's theorem, which of the following is constant?
  - (a) Linear momentum
  - (b) Angular momentum
  - (c) Mass
  - (d) Energy

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*Disasters, Risks and Revelation* Steve Matthewman, 2016-04-29 Disasters are part of the modern condition a source of physical anxiety and existential angst and they are increasing in frequency cost and severity Drawing on both disaster research and social theory this book offers a critical examination of their causes consequences and future avoidance

**Landscape Architecture and Digital Technologies** Jillian Walliss, Heike Rahmann, 2016-02-12 *Landscape Architecture and Digital Technologies* explores how digital technologies are reshaping design and making in landscape architecture While the potentials of digital technologies are well documented within landscape planning and visualisation their application within design practice is far less understood This book highlights the role of the digital model in encouraging a new design logic that moves from the privileging of the visual to a focus on processes of formation bridging the interface of the conceptual and material the virtual and the physical Drawing on interviews and projects from a range of international designers including Sn hetta Arup Gustafson Porter ASPECT Studios Grant Associates Catherine Mosbach Philippe Rahm PARKKIM LAAC and PEG office of landscape architecture among others the authors explore the influence of parametric modelling scripting real time data simulation prototyping fabrication and Building Information Modelling on the design and construction of contemporary landscapes This engagement with practice is expanded through critical reflection from academics involved in landscape architecture programs around the world that are reshaping their research and pedagogy to reflect an expanded digital realm Crossing critical theory technology and contemporary design the book constructs a picture of an emerging twenty first century practice of landscape architecture practice premised on complexity and performance It also highlights the disciplinary demands and challenges in engaging with a rapidly evolving digital context within practice and education The book is of immense value to professionals and researchers and is a key publication for digital landscape courses at all levels

BESS SB13 Pablo La Roche, 2013-06-27 The Building Enclosure Sustainability Symposium BESS was initiated in 2009 through a partnership of the Department of Architecture at California State Polytechnic University Pomona and Simpson Gumpertz Heger Inc The symposium was designed to bring together

professionals from academia architecture engineering and construction as well as students to discuss state of the art sustainable building enclosure design      *Geoscience for the Public Good and Global Development* Gregory R. Wessel,Jeffrey K. Greenberg,2016-05-18 Offers overview of applications of geosciences to sustainable development and geophilanthropic efforts worldwide and offers advice to guide creation of development projects Primacy of geologic input to all development activities is highlighted along with problems that are encountered and environmental issues that must be addressed

**Political Science** ,2014      The physical environment and health: Implications for the planning and management of healthy cities Linchuan Yang,Bao-Jie He,Long Cheng,Yibin Ao,Ruoyu Wang,2023-08-30      *Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)* Union of International Associations,2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events      **English mechanic and mirror of science** ,1870      *Annual Report - Indian Council of Social Science Research* Indian Council of Social Science Research,2013      **Journal of Economic Literature** ,2014      *Palmer's Index to "The Times" Newspaper* ,1883

**Wallace's Farmer** ,2014      *Liverpool and Manchester Photographic Journal* William Crookes,T.A. Malone,George Shadbolt,J. Traill Taylor,William Blanchard Bolton,Thomas Bedding,1898      **Farmers' Review** ,1895      Official Index to the Times ,1920      **Library Journal** Melvil Dewey,Richard Rogers Bowker,L. Pylodet,Charles Ammi Cutter,Bertine Emma Weston,Karl Brown,Helen E. Wessells,1892 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately

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