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Course Code/Name Regulation

### : PH3201 –Physics for Civil Engineering : 2021

#### <u>UPC – Questions</u>

Unit .No	Name of the Unit	Questions	СО	Grade	
			Mapping	Α	B
Ι	Thermal applications	<ol> <li>The heat conduction through compound media in series &amp; parallel. (12)</li> <li>Radial heat flow in Rubber tube, Cylindrical method (16)</li> <li>The factors affect thermal performance of building. (10)</li> <li>Climate and design of solar radiation. (12)</li> <li>Central heating,(8)</li> <li>Heat gain and heat loss estimation in the components of Buildings (8)</li> <li>The thermal insulation &amp;benefits of thermal insulation.(8)</li> <li>Fenestration system (8)</li> </ol>	C110.1	1 2 3 4 5	6 7 8
п	Ventilation & refrigeration	<ol> <li>Principles of natural ventilation , ventilation measurements and design for natural ventilation.(16)</li> <li>Packaged air conditioner&amp; window air conditioner.(16)</li> <li>The design and working of chilled water plant and fan coil system.(16)</li> <li>Different air conditioning systems for buildings.(16)</li> <li>The common causes of AC fires, The steps to be taken to prevent the fires.(12)</li> <li>Write short notes about water piping &amp; cooling load.(12)</li> </ol>	C110.1	1 2 3 4	5
ш	Acoustics and lighting designs	<ol> <li>Sound absorption&amp; Sound insulation measurements (12)</li> <li>Artificial light sources and ambient, task and accent lighting in buildings.(12)</li> <li>The hemispherical reflectance and transmission spectrum (12)</li> <li>Principles of artificial lighting and supplementary artificial lighting.(12)</li> <li>Daylight Calculation &amp; design of windows.(12)</li> <li>The measurements of day light &amp; Visual field glare.(12)</li> <li>Noise measurements and the impact of noise in multi storied building.(10)</li> </ol>	C110.3	1 2 3 4 5	6 7
IV	New engineering materials	<ol> <li>Composites- FRP &amp; FRM (16)</li> <li>Metallic glasses (16)</li> <li>SMA- Shape memory alloys (16)</li> <li>Ceramics- slip casting. Isostatic &amp;Gas pressure bonding.(16)</li> <li>Ferroelectric &amp; ferromagnetic ceramic.(8)</li> <li>High alumina ceramic.(8)</li> </ol>	C110.4	1 2 3 4	5 6
V	Natural disasters.	<ol> <li>1.Earthquake ground motion. Types, intensity &amp; Site effect.(8)</li> <li>2. Seismic waves &amp; seismology (10)</li> <li>3.Seismic Hazard Analysis- DSHA, PSHA (12)</li> <li>4. Cyclone hazards, flood hazards (12)</li> <li>5. Fire hazards , fire proofing &amp; fighting materials (12)</li> <li>6. Fire safety regulation &amp; prevention of safety measures.(12)</li> </ol>	C110.5	1 2 3 4 5	6

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Course Code/Name Regulation

#### : PH3201 – Physics for Civil Engineering : 2021

### <u> UPC – Student Planner</u>

Slat	Unit .No	Name of the Unit	Questions	СО	Grade	
Slot				Mapping	Α	B
1	v	Natural disasters.	<ol> <li>1.Earthquake ground motion. Types, intensity &amp; Site effect.(8)</li> <li>2. Seismic waves &amp; seismology (10)</li> <li>3.Seismic Hazard Analysis- DSHA, PSHA (12)</li> <li>4. Cyclone hazards, flood hazards (12)</li> <li>5. Fire hazards , fire proofing &amp; fighting materials (12)</li> <li>6. Fire safety regulation &amp; prevention of safety measures.(12)</li> </ol>	C110.5	1 2 3 4 5	6
2	I	Thermal applications	<ol> <li>The heat conduction through compound media in series &amp; parallel. (12)</li> <li>Radial heat flow in Rubber tube, Cylindrical method (16)</li> <li>The factors affect thermal performance of building. (10)</li> <li>Climate and design of solar radiation. (12)</li> <li>Central heating,(8)</li> <li>Heat gain and heat loss estimation in the components of Buildings (8)</li> <li>The thermal insulation &amp;benefits of thermal insulation.(8)</li> <li>Fenestration system (8)</li> </ol>	C110.1	1 2 3 4 5	6 7 8
3	IV	New engineering materials	<ol> <li>Composites- FRP &amp; FRM (16)</li> <li>Metallic glasses (16)</li> <li>SMA- Shape memory alloys (16)</li> <li>Ceramics- slip casting. Isostatic &amp;Gas pressure bonding.(16)</li> <li>Ferroelectric &amp; ferromagnetic ceramic.(8)</li> <li>High alumina ceramic.(8)</li> </ol>	C110.4	$\begin{array}{c}1\\2\\3\\4\end{array}$	5 6
4	п	Ventilation & refrigeration	<ol> <li>Principles of natural ventilation , ventilation measurements and design for natural ventilation.(16)</li> <li>Packaged air conditioner&amp; window air conditioner.(16)</li> <li>The design and working of chilled water plant and fan coil system.(16)</li> <li>Different air conditioning systems for buildings.(16)</li> <li>The common causes of AC fires, The steps to be taken to prevent the fires.(12)</li> <li>Write short notes about water piping &amp; cooling load.(12)</li> </ol>	C110.1	1 2 3 4	5
5	ш	Acoustics and lighting designs	<ol> <li>Sound absorption&amp; Sound insulation measurements (12)</li> <li>Artificial light sources and ambient, task and accent lighting in buildings.(12)</li> <li>The hemispherical reflectance and transmission spectrum (12)</li> <li>Principles of artificial lighting and supplementary artificial lighting.(12)</li> <li>Daylight Calculation &amp; design of windows.(12)</li> <li>The measurements of day light &amp; Visual field glare.(12)</li> <li>Noise measurements and the impact of noise in multi storied building.(10)</li> </ol>	C110.3	1 2 3 4 5	6 7
6			Pending Questions			
7			Part – A Questions			

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