

Roll No.

--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

Total No. of Questions : 08

B.Architecture (2012 & Onwards) (Sem.-6)**BUILDING SERVICES-III****Subject Code : BACH-605****M.Code : 72291****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTIONS TO CANDIDATES :**

1. Attempt 5 questions in all with at least one question from each unit
2. First question is compulsory.
3. Assume any missing data/dimension. Draw neat sketches where necessary.

- Q1.** a) What is artificial ventilation? (2)
- b) Explain briefly cooling load. Which gases are used for refrigeration? (2)
- c) Explain absorption, reverberation time (give formula also), transmission & reflection of sound. (2)
- d) Enlist advantages of acoustic materials. (2)
- e) Explain briefly the applicability of intelligent buildings. (2)

UNIT-I

- Q2.** Discuss air conditioning with respect to its role & importance along with the principles govern the air conditioning? What is cooling load & air cycle? Also explain methods of cooling and heating. (12.5)
- Q3.** A small guest house (20 bedrooms, lobby, dining area etc.) is to be centrally air conditioned. Explain various parts of AC plant to be installed with diagrams. (12.5)

UNIT-II

- Q4.** Explain the acoustical design considerations for a studio & lecture hall with the help of neat diagrams. Also explain the methods of acoustical treatment. (12.5)
- Q5.** What are acoustical materials & their different types of available in the market? Explain each along with its application. (12.5)

UNIT-III

- Q6. Explain the relevance, importance and scope of building automation. (12.5)
- Q7. What is building management system? Explain its functions & applicability to different services. (12.5)
- Q8. Explain limitations, advantages & disadvantages, components & the integration of Building management systems in buildings. (12.5)

www.FirstRanker.com

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.