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## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B. DES. (ID) DEGREE EXAMINATION – NOVEMBER 2019

SUBJECT: ID 4113 – ADVANCED MATERIALS – ELECTIVE 3  
(2018 SCHEME)

Monday, November 11, 2019

Time: 10:00 – 13:00 Hrs.

Max. Marks: 50

- ✍ Answer ALL questions.
- ✍ Answer all parts of a question.

- 1A. Give two examples for artificial flooring material.
- 1B. What are the adverse effects of quarrying on environment?
- 1C. Discuss on the benefits of reusing and recycling construction wastes.

(2+5+3 = 10 marks)

- 2A. Explain the importance of green building rating systems in construction.
- 2B. Explain briefly about any two green building rating systems.

(5+5 = 10 marks)

- 3A. List five types of Luminaires.
- 3B. List any five types of wall finishes.

(5+5 = 10 marks)

- 4A. List any five properties of stainless steel.
- 4B. Define fenestration. Explain briefly on any two types of fenestration.

(5+(1+4) = 10 marks)

- 5A. What are the characteristic properties of Transparent aluminium? List any two applications.
- 5B. List the parameters to be considered while selecting a flooring children's indoor recreation centre.

((3+2)+5 = 10 marks)

