

Total No. of Questions : 4]

SEAT No. :

PB166

[6269]-380

[Total No. of Pages :1

**T.E. (Mechanical) (Insem)
COMPOSITE MATERIALS**

(2019 Pattern) (Elective-II) (Semester - II) (302052-A)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Solve Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Neat diagrams must be drawn whenever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

Q1) a) Explain advantages of composite materials over other materials. [7]

b) Explain classification of Matrices in Composite material. [8]

OR

Q2) a) Compare the properties of composite and standard materials. [7]

b) Difference between hybrid materials and composite materials. [8]

Q3) a) What is polymerization? Explain any one in detail. [7]

b) Describe the pultrusion process with its advantages, disadvantages and applications. [8]

OR

Q4) a) Write short note on Thermoplastic polymer. [7]

b) Describe the Hand lay-up process with its advantages, disadvantages and applications. [8]

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