



QP Code : 3510

(3 Hours)

[Total Marks : 80

- N. B. : (1) Question No. 1 is compulsory.
(2) Attempt any three questions out of remaining five questions.
(3) Figures to the right indicate full marks.
(4) Assume suitable data if required.

1. Explain in brief :- 20
(a) Resin transfer moulding process of composite manufacturing.
(b) Abrasive waterjet machining (AWJM).
(c) Gear finishing processes.
(d) Trueing and dressing of grinding wheel.
2. (a) How automats are classified? Explain in detail the construction, working and application of 3 axis CNC machining center. 10
(b) Briefly explain different types of surface grinding machines. 10
3. (a) Explain the principle of operation, construction, advantages, disadvantages and applications of various thread rolling machines. 10
(b) Describe different types of hobbing techniques. 5
(c) Write a brief note on gear shaping. 5
4. (a) Discuss classification of unconventional machines. Briefly discuss the principle of operation, advantages, limitations and applications of E.C.M. 10
(b) Briefly explain the filament winding and hand by up processes of composite manufacturing. 10
5. (a) What are the factors affecting the selection of grinding wheel? Explain in detail. 10
(b) Explain about the capabilities and characteristics of machining centres. 10
6. (a) Briefly explain the principle of operation, construction, advantages, limitations and applications of 10
(i) A.J.M.
(ii) U.S.M.

Course: S.E. (SEM. IV)(CBSGS) (PRODUCTION ENGG.)
(prog 791 TO 805)

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Correction:

Q6 should carry 20 marks instead of 10 as typed.
There is no Q6 A and Q6 B separately. it is instead
Q6 ----- 20 marks.

Query Update time: 27/05/2015 03:55PM