Roll No. .....

## 337555(37)

BE (5<sup>th</sup> Semester) Examination, April-May, 2017

[New Scheme]

## Manufacturing Science-II

Time Allowed: 3 hours

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Maximum Marks: 80

Minimum Pass Marks: 28

**Note:** (i) Part (a) of each question is compulsory. Attempt any two parts from (b), (c) and (d). Answer very briefly and to the point. Neat sketches will be given credit.

> The figures in the right-hand margin indicate marks.

(a) Define importance of extrusion process. [2]

(b) State briefly the following methods of [7] forging:

- Drop forging
- Press forging (ii)

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- Machine forging
- (c) What are different defects in a forging? State the design considerations in a forging.

(Turn Over)

[3]

(d) What is the importance of jigs and fixtures? Differentiate between them. [7]

(a) Explain dressing and turning of a grinding wheel. [2]

(b) Explain the factors to be kept in mind in selecting a grinding wheel. [7]

(c) With a neat sketch explain briefly external and internal cylindrical grinding and surface grinding.

(d) What are the constituents of a grinding wheel? Explain the procedure manufacturing a grinding wheel.

(a) What is MRR? In which process MRR is high? [2]

(b) Describe the various process parameters that effect the EDM process. **[7]** 

(c) Name seven unconventional machining. Describe any one with neat sketch, advantage, disadvantage and application. [2+5=7]

(d) Explain the following terms in USM (Ultra Sonic Machine): [7]

- Feed mechanism
- (ii)Tool
- (iii) Abrasive slurry

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[7]

[7]

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