

DEPARTMENT OF MECHANICAL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA
(THEORY EXAMINATION)

12 DEC 2018

Month and year of examination: Nov/Dec, 2018

Subject: Engineering Practice (MEIR 11)

Max. Marks: 50

Programme: B. Tech

Semester: 1st

Time Allowed: 3 hours

Instruction:

- The Candidates, before starting to write the answers, should please check the Question Paper for any discrepancy, and also ensure that they have been delivered the question Paper of right course no. and right subject title.
- All questions are compulsory. Briefly explain the answers. Draw neat and well labeled diagrams to support the answers.

Q. 1.	(a) Explain the steps involved in casting process with a block diagram. (b) Explain the advantages and disadvantages of different pattern material. (c) Explain various elements used in sand casting process with neat diagram.	3+2+5
Q. 2.	(a) State the working principle of lathe. (b) Briefly explain the operations performed on lathe with neat sketches. (c) Briefly explain different cutting tools used in fitting shop with neat sketches.	1+4+5
Q. 3.	(a) Draw a well labeled diagram of lathe and explain various parts of it. (b) State the different marking tools, measuring tools and holding tools used in fitting shop. (c) Compare hard wood and soft wood in the context of carpentry.	5+3+2
Q. 4.	(a) State the benefits of seasoning of woods. (b) Briefly explain different seasoning techniques used in carpentry. (c) Explain different oxy-acetylene flames with neat diagrams.	2+4+4
Q. 5.	(a) Write down the advantages and disadvantages of welding. (b) State different measuring tools, marking tools, holding and supporting tools, cutting and drilling tools, and striking tools employed in carpentry shop. (c) Write down the applications of brazing and soldering.	2+6+2

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