

PRODUCTION ENGINEERING

Q1. The following question consists of two statements. While answering these questions choose any one of the given responses.

Statement 1: A pattern is made exactly similar to the part to be cast.

Statement 2: A pattern is used to make mould cavity for pouring in molten metal for casting.

- Both the statements are true and statement 2 is the correct reason for statement 1
- Both the statements are true but statement 2 is not the correct reason for statement 1
- Statement 1 is true and statement 2 is false
- Both the statements are false

Q2. Which of the following principles is the working principle of an optical gauge?

- Polarization
- Reflection of light rays
- Refraction of light rays
- Interference of light rays

Q3. Consider the following components:

1. A dedicated computer 2. Bulk memory 3. Telecommunication lines

Which of these components are required for a DNC system?

- Both 1 and 3
- Both 1 and 2
- Both 2 and 3
- All-1, 2 and 3

Q4. In a turning operation, the change in diameter of the work part is equal to which one of the following?

- Depth of cut
- $2 \times \text{depth of cut}$
- $2 \times \text{feed}$
- None of the above

Q5. Which of the following statements is true regarding the moulding process employed for thermoplastic materials?

- Injection and extrusion methods can be used
- The moulding process is similar to that of thermosetting plastic except that higher temperature is used
- The method is similar to that of thermosetting plastics except that a lower temperature is used
- None of the above