Progress

1 point

1 point

Unit 5 - Week 4

How does an NPTEL online

Processing concepts of

Mechanical properties of

Fracture and toughening of

Sliding wear of SiC Ceramics

Sliding wear of SiC-WC

Quiz : Assignment 4

Solution For Assignment 4

Course outline

course work?

Week 1

Week 2

Week 3

Week 4

ceramics

ceramics

brittle solids

Composites

Week 5

Week 6

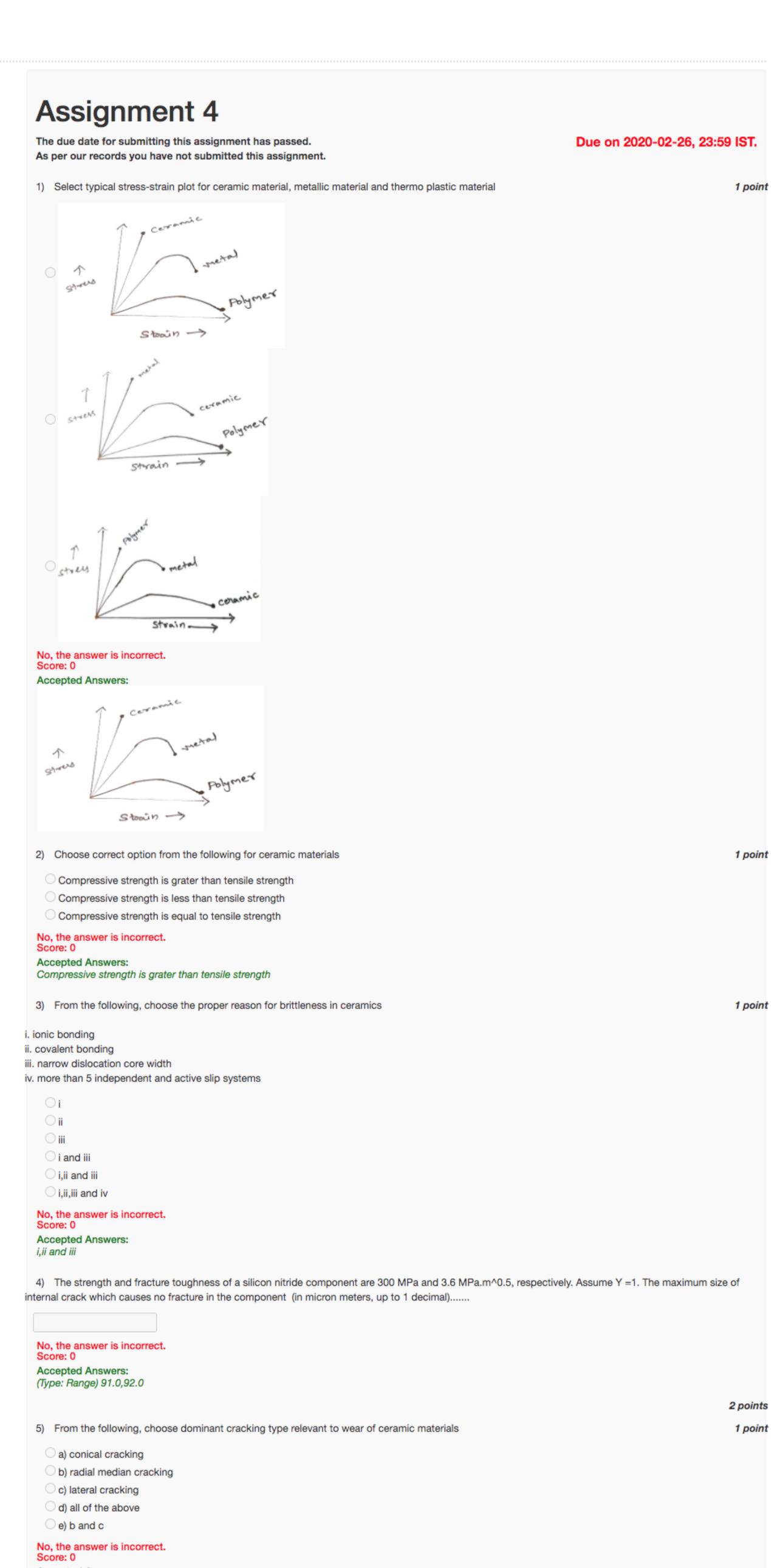
Week 7

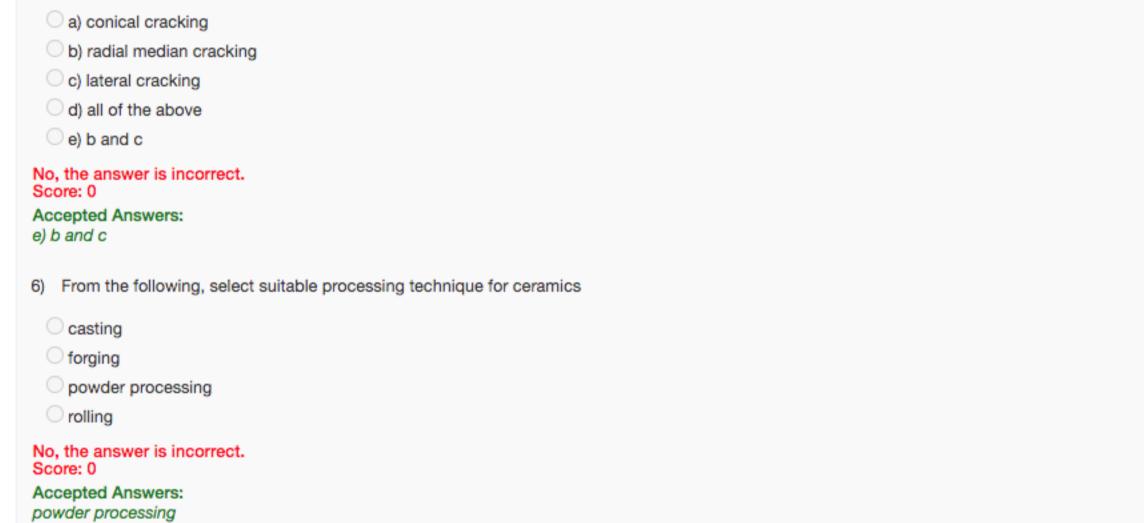
Week 8

Text Transcripts

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WEEKLY FEEDBACK







1. Heating occurs in SPS by Joule effect

increased fracture

onone of the above

Accepted Answers: increased fracture

Score: 0

No, the answer is incorrect.

increased deformation and fracture

7) Sintering refers to the consolidation process of powder compacts by diffusional mass transport possible at a temperature (in absolute scale)

2. Heating occurs in HP by Joule effect
3. Heat and pressure simultaneously applied in HP
4. Compared to SPS, lower temperatures are needed for sintering of powder compacts in pressureless sintering

1 and 3

1 and 2

2 and 4

1 and 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
1 and 3

9) Wear of SiC ceramics in dry unlubricated sliding conditions increases at high loads due to

1 point

increased deformation