

3115

B.Tech.(ME) 4th Semester(G Scheme)

Examination, July-2022

MATERIALS ENGINEERING

Paper-PCC-ME-208-G

Time allowed : 3 hours]

[Maximum marks : 75

Note : Attempt any five questions in total, at least one question from each section. Question No. 1 is compulsory.

1. Explain the following : 6×2.5=15
- (a) Dislocation Strengthening Mechanisms
 - (b) Tensile test
 - (c) Nitriding
 - (d) Fracture with Fatigue
 - (e) Spheroidising
 - (f) S-N Curve

Section-A

2. Explain the Atomic Packing factor of B.C.C. and F.C.C. in detail. 15
3. Explain Rockwell and Brinell hardness test with neat sketch. 15

3115-P-2-Q-9(22)

[P.T.O.]

3086

B.Tech. (CSE) 4th Semester (G Scheme)

Examination, July-2022

COMPUTER ORGANIZATION AND ARCHITECTURE

Paper- PCC-CSE-204-G

Time allowed : 3 hours]

[Maximum marks : 75

Note : Attempt any five questions in all. Questions No. 1 is compulsory.

1. (a) What do you mean by term "register transfer"?
 - (b) Convert octal 736.4 to decimal.
 - (c) What is the requirement of common bus System?
 - (d) Discuss Relative Address Mode.
 - (e) What is role of Strobe Control in asynchronous data transfer?
 - (f) Define Write-through and Write-back cache.
 $6 \times 2.5 = 15$
2. (a) Explain Subtraction of Unsigned Numbers in Complement number system with appropriate example.
8
 - (b) Explain Floating - Point Representation in detail.
7

3086-P-3-Q-9 (22)

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