Roll No.

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B.TECH. IV SEM MAIN / BACK (NEW SCHEME) EXAM 2023-24

COMPUTER SCIENCE ENGINEER ING

(4CS4-06)Introduction to Java Programming

Common to CS, IT, AI, DS, MC, CM, CD, CA, AD, AM, CY, IO [4CS4-06, 4IT4-06, 4AI4-06, 4CD4-06, 4AD4-06, 4AM4-06, 4CY4-06]

Time: 3 Hours]

[Max. Marks: 70

[Min. Passing Marks:

Instructions to Candidates:

Part-A: Short Answer Type Questions (up to 25 words) $10 \times 2 = 20$ marks. All 10

Part-B: Analytical/Problem Solving questions $5 \times 4 = 20$ marks. Candidates have to answer 5 questions out of 7.

Part-C: Descriptive/Analytical/Problem Solving questions 3 × 10 marks = 30 marks. Candidates have to answer 3 questions out of 5.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/ calculated must be stated clearly.

Use of the following supporting materials is permitted during examination. (Mentioned in form no. 205).

Part-A

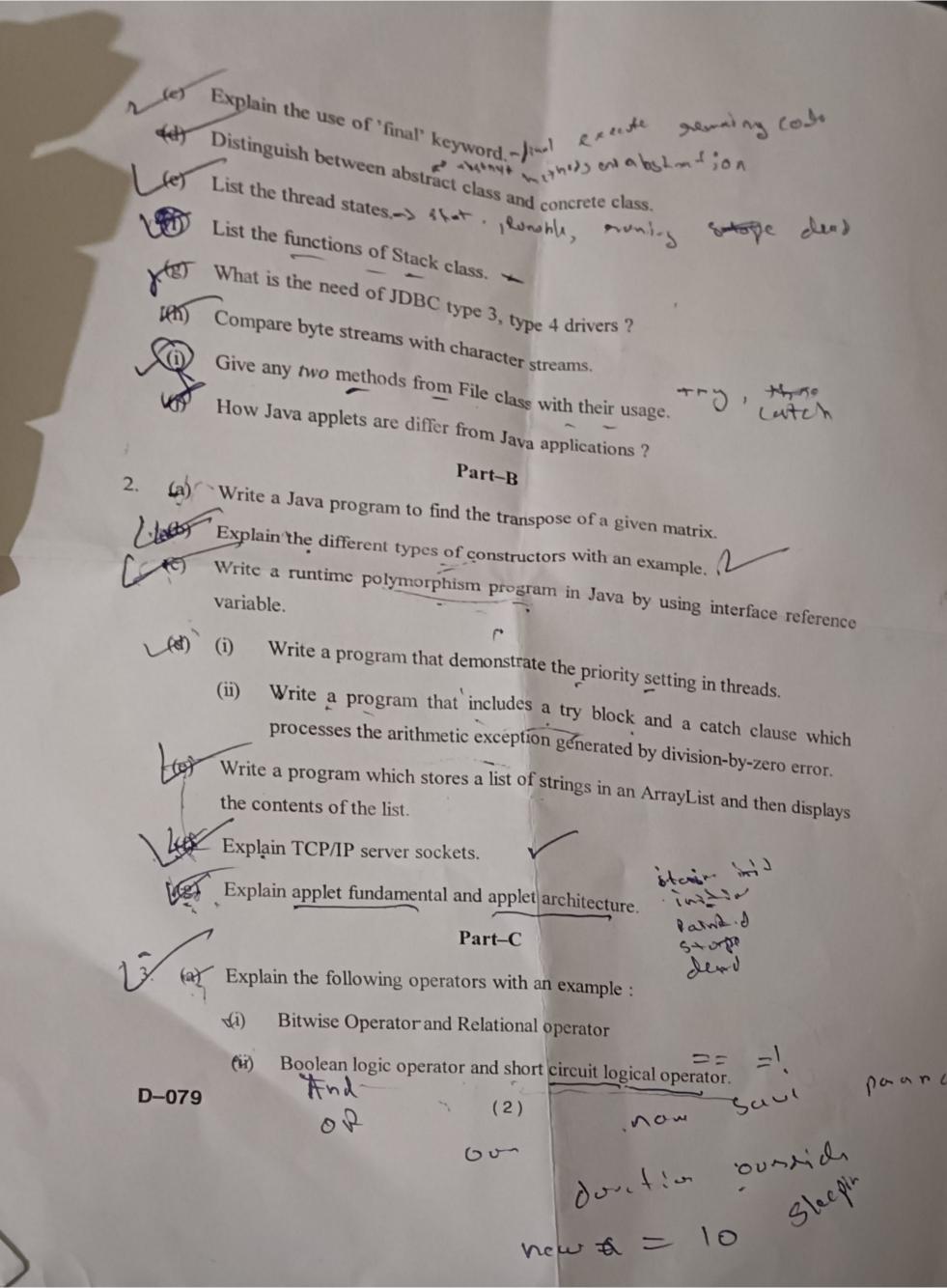
What is the significance of Java's byte code?

Define polymorphism.

D-079

(1)

P.T.O.



What is dynamic method dispatch in method overriding? Explain with example.

Also discuss on garbage collection

What is interface? Give an example to define and implement an interface.

Describe the need of thread synchronization. How is it achieved in Java programming? Explain with a suitable program.

(e) Design an Applet to pass username and password as parameters and check if password contains more than 8 characters.
