2	PRELIMS	DATE	:
TIME: 3hrs	PHYSICS	MARKS	: 70

General Instructions:

- All the questions are compulsory.
- Section A contains Q. No.1 contains ten Multiple Choice type of questions carrying one mark each.

Q No.2 contain eight Very Short Answer type of questions carrying one mark each.

- Section B contains Q No. 3 to 14 of Short Answer type of questions carrying two marks each.
- Section C contains Q no.15 to 26 of Short Answer type of questions carrying three marks each.
- v) <u>Section D</u> contains Q no.27 to 31 of Long Answer type of questions carrying four marks each.

SECTION A

Q1. Select and write correct answers:

- [10]
- In a cirtain unit, the radius of gyration of a uniform disc about its central and transverse axis is √2.5. Its radius of gyration about a tangent in its plane (in the same unit) must be
 - (a) √5
 - (b) 2.5
 - (c) 2√2.5
 - (d) \(\square 12.5 \)
- A hydraulic lift is designed to lift heavy objects of maximum mass 2000kg. The area of cross section of piston carrying the load is 2.25 x 10⁻² m². What is the maximum pressure the piston could have to bear?
 - (a) 0.8711 x 10⁶ N/m²

(b) 0.5862 x 107 N/m2

(c) 0.4869 x 10⁵ N/m²

- (d) 0.3271 x 10⁴ N/m²
- 3. The mean free path λ of molecules is given by
 - (a) $\sqrt{\frac{2}{\pi n d^2}}$
- (b 1 and)

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Ian Robertson Sinclair, David Abbott, Tony Seddon

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