

General Instructions:

- i) All the questions are compulsory.
- ii) **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.
- iii) **Section B** contains Q No. 3 to 14 of Short Answer type of questions carrying two marks each.
- iv) **Section C** contains Q no.15 to 26 of Short Answer type of questions carrying three marks each.
- v) **Section D** 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]**

1. In a certain unit, the radius of gyration of a uniform disc about its central and transverse axis is $\sqrt{2.5}$. Its radius of gyration about a tangent in its plane (in the same unit) must be
 - (a) $\sqrt{5}$
 - (b) 2.5
 - (c) $2\sqrt{2.5}$
 - (d) $\sqrt{12.5}$
2. A hydraulic lift is designed to lift heavy objects of maximum mass 2000kg. The area of cross section of piston carrying the load is $2.25 \times 10^{-2} \text{ m}^2$. What is the maximum pressure the piston could have to bear?

(a) $0.8711 \times 10^6 \text{ N/m}^2$	(b) $0.5862 \times 10^7 \text{ N/m}^2$
(c) $0.4869 \times 10^5 \text{ N/m}^2$	(d) $0.3271 \times 10^4 \text{ N/m}^2$
3. The mean free path λ of molecules is given by

(a) $\sqrt{\frac{2}{\pi n d^2}}$	(b) $\frac{1}{\pi n d^2}$
)

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Roman Wölfel



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