

2**PRELIMS****DATE :****TIME: 3hrs****PHYSICS****MARKS : 70****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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JS Bruner



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web this circuit is used to test n mosfets the power kind e.g. irf830 whether it works or not if it is not working the led will not flash if mosfet is working it will operate in the astable multivibrator circuit causing the led to flash here is the circuit diagram

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web follow the below steps to conduct the diode test 1 for this test set the multimeter in the diode mode 2 for n channel mosfet connect the red probe positive to the source and black one at the drain common the body diode is in forward bias condition this way

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