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Time : 3 hrs.

Answers & Solutions

Max. Marks: 180

for

JEE (Advanced)-2022 (Paper-1)

PART-I : PHYSICS

BY RAMIAH Sir & VNR SIR

SECTION – 1 (Maximum marks : 24)

- This section contains **EIGHT (08)** questions.
- The answer to each question is a **NUMERICAL VALUE**.
- For each question, enter the correct numerical value of the answer using the mouse and the on-screen virtual numeric keypad in the place designated to enter the answer. If the numerical value has more than two decimal places, **truncate/round-off** the value to **TWO** decimal places.
- Answer to each question will be evaluated according to the following marking scheme:

Full Marks	: +3	ONLY if the correct numerical value is entered;
Zero Marks	: 0	In all other cases.

1. Two spherical stars A and B have densities ρ_A and ρ_B , respectively. A and B have the same radius, and their masses M_A and M_B are related by $M_B = 2M_A$. Due to an interaction process, star A loses some of its mass, so that its radius is halved, while its spherical shape is retained, and its density remains ρ_A . The entire mass lost by A is deposited as a thick spherical shell on B with the density of the shell being ρ_A . If v_A and v_B are the escape velocities from A and B after the interaction process, the ratio $\frac{v_B}{v_A} = \sqrt{\frac{10n}{15^{1/3}}}$. The value of n is _____.

Answer (2.30)

Sol. $v_A = \sqrt{\frac{2GM_A}{R}} = \frac{v_0}{2}$

For B , $\frac{4}{3}\pi(r^3 - R^3) = \frac{4}{3}\pi R^3 \cdot \frac{7}{8}$

$\Rightarrow r = \left(\frac{15}{8}\right)^{1/3} R$

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Dr. O. P. Agarwal, Er. Deepak Agarwal

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