

SCIENCE
Part - I : Physical Sciences
(English version)

Parts A and B

[Max. Marks : 40]

Time : 1 hour 30 min.]

Instructions :

- (i) Read the question paper and understand every question thoroughly and write answers in given 1 hr. 30 min. time.
- (ii) 3 very short answer questions are there in **section-I**. Each question carries 2 marks. Answer all the questions. Write answer to each question in 3 to 4 sentences.
- (iii) 3 short answer questions are there in **section-II**. Each question carries 4 marks. Answer all the questions. Write answer to each question in 5 to 6 sentences.
- (iv) 3 essay type questions are there in **section-III**. Each question carries 6 marks. Answer any two questions. Write answer to each question in 8 to 10 sentences.

PART - A

Time : 1 hour 15 minutes

Marks : 30

3 × 2 = 6

SECTION - I

Instructions :

- (i) 3 very short answer questions are there in this **section-I**.
- (ii) Answer all the questions. Each question carries 2 marks.
- (iii) Write answer to each question in 3 to 4 sentences.

1. Write any two daily life uses of Baking soda.
2. Write the required materials, chemicals for "esterification reaction" activity

Physical Science Paper Exemplar Question

B Lingard



Physical Science Paper Exemplar Question:

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web 120 3 mpa inner cylinder σ_t 365 to 244 mpa σ_r 0 to 120 3 mpa outer cylinder σ_t 256 to 135 mpa σ_r 120 3 to 0 mpa maximum internal pressure 395 mpa 5 a cylinder with closed ends has outer diameter d and a wall thickness t 0 1d

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web oct 12 2011 if the cylinder walls are thin and the ratio of the thickness to the internal diameter is less than about then it can be assumed that the hoop and longitudinal stresses are constant across the thickness it may also be assumed that the radial stress is small and can be neglected

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