

CBSE Class 9 Science Sample Paper Set 1

Time: 3 hrs

Total Marks: 80

General Instructions:

- (i) The question paper comprises of five sections – A, B, C, D and E. You are to attempt all the sections.
- (ii) All questions are compulsory.
- (iii) Internal choice is given in sections B, C, D and E.
- (iv) Questions numbers 1 and 2 in Section - A are one mark questions. They are to be answered in one word or in one sentence.
- (v) Question numbers 3 to 5 in Section- B are two marks questions. These are to be answered in about 30 words each.
- (vi) Question numbers 6 to 15 in Section-C are three marks questions. These are to be answered in about 50 words each.
- (vii) Question numbers 16 to 21 in Section-D are 5 marks questions. These are to be answered in about 70 words each.
- (viii) Question numbers 22 to 27 in Section- E are based on practical skills. Each question is a two marks question. These are to be answered in brief.

SECTION – A

1. Mention the various methods of inter-crop hybridisation. [1]
2. Which type of farming system yields healthier grains? [1]

SECTION – B

3. Why does air pollution increase during winter? [2]

OR

Explain how air moves over sea and land during day and night.

4. Mention the elements and the ratio by mass of elements present in: [2]
 - a. Ammonia
 - b. Carbon dioxide

9th Cbse Sample Papers 2011

Thomas Griffiths



9th Cbse Sample Papers 2011:

9th Cbse Sample Papers 2011 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**9th Cbse Sample Papers 2011**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web sep 12 2018 smps operation diagram the diagram above outlines how the smps operates an smps s functionality is more complex than that of a linear regulator but we can break it down into five stages 1 in the first stage the incoming ac power runs through a rectifier and undergoes filtration to produce dc 2

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web fig 3 0 1 typical smps block diagram fig 3 0 1 shows a block diagram example of a typical smps with an ac mains line input and a regulated dc output the output rectification and filter are isolated from the high frequency switching section by a high frequency transformer and voltage control feedback is via an opto isolator

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web the block diagram of a linear power supply is as shown in the following figure in spite of the above disadvantages linear power supplies are widely used in low noise amplifiers test equipment control circuits in addition they

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web smps rely on pwm to control the average value of the output voltage the average value of the repetitive pulse waveform depends on the area under the waveform as load increases output voltage tends to fall most switching power supplies regulate their output using the method called pulse width modulation pwm

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web feb 25 2021 fig block diagram of smps the working of smps is clearly explained in the above block diagram and each block is explained properly in the following section input section the input supply of our

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web below is a conceptual circuit diagram of a typical off line smps this tutorial will introduce you to its basic operation how switching power supply smps works ac power first passes through fuses and a line filter then it is rectified by a full wave bridge rectifier

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web hence a smps can be used to convert ac to dc such as in a desktop computer power supply or dc to dc either step up or step down in many different battery powered systems fig 3 0 1 shows a block diagram example of a typical smps with an ac mains line input and a regulated dc output

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web block diagram of a mains operated ac dc smps with output voltage regulation input rectifier stage ac half wave and full wave rectified signals if the smps has an ac input then the first stage is to convert the input to dc this is called rectification an smps with a dc input does not require this stage

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web apr 29 2020 forward converter in a forward converter the choke carries the current when the transistor is conducting as well as when it is not the diode carries the current during the off period of the transistor therefore energy flows into the load during both the periods

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web the figure given below represents the functional block diagram of smps initially the unregulated ac input signal from the source is provided to the input rectifier and filter circuit here the ac input signal is rectified to generate a dc signal and further smoothed to remove high frequency noise component from it

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web smps regulates the output power by varying the on to off time using minimum voltage so that efficiency is very high compared to the linear power supply what is inside a smps fig 1 simple block diagram showing different function of smps

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