



HIM ACADEMY PUBLIC SCHOOL

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Sample Entrance Test - 2017

Class - 9th

[Set - I]

Time : 2:00 hrs.

M.M.: 80

[Part-1 (English)]

Note : Candidates are required to give their answers in their own words as far as practicable. Marks allotted to each question are indicated against it.

Q.1 Read the passage given below and answer the questions that follow:

The conference lasted one week and went on under total cover of secrecy. First the experts checked and rechecked James Forsyth's calculation with the latest observation of Comet Dutta. He was right: there was no escape from the direct hit predicted by him. There was a small chance that the comet may just graze the atmosphere of the Earth and not collide. In that case the loss of life and property would not be total. But this slight respite was hardly reassuring enough for taking no action. Having decided that some action was needed, what form should it take. The experts dismissed defensive measures like living in underground bunkers. It was simply not a practical proposition. So the only course was to take offensive action. Comet Dutta could be marginally deflected from its path by giving it a push by using nuclear power.

Answer the following questions briefly:

- What did the expert check in the beginning of the conference?
- What had Forsyth predicted in his calculations?
- What conclusion did the expert draw if the Comet Dutta just grazes the atmosphere of the Earth?
- How could Comet Dutta be deflected from its path under the offensive approach?
- Write three forms of the following verbs:

- Collide
- Hit

[5]

Q.2 Write an application to your Principal, requesting him to grant you full fee-concession.

[5]

Q.3 Write a paragraph in about 80 words on any one of the following:

- My Aim in Life
- Morning Walk.

[4]

Q.4 Do as directed:

- I knew him. (*Change into Negative sentence*)
- We will run a race. (*Change into Passive Voice*)
- He is ___honest boy. (*a/an - fill the gap*)
- He said, "She is an intelligent girl." (*Change the narration*)
- She will go to Delhi. (*Change into Present Indefinite Tense*)
- The book is lying ___ the table. (*over/on - fill the gap*)

[6]

प्र01 निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के उत्तर लिखें :

आज मानव-समाज में एक ओर तो विज्ञान को भी चमत्कृत कर देने वाली उपलब्धियों से निरंतर सभ्यता का विकास हो रहा है और दूसरी ओर मानव-मूल्यों का ह्रास होने से समस्या गंभीर होती जा रही है। मनुष्य विवेक और ईमानदारी को त्यागकर भौतिक स्तर से ऊँचा उठने का प्रयत्न कर रहा है। सफलता की लालसा में वह उचित-अनुचित की चिंता नहीं करता। उसे तो बस अपना साध्य चाहिए। इसके लिए वह भयंकर अपराधों के नए-नए रूपों की खोज में लगा है। समस्या यह है कि अपराध वृद्धि पर रोक कैसे लगाई जाए? सदाचार, कर्तव्य-परायणता, त्याग, परोपकार आदि को छोड़कर भला सुखी कैसे रहा जा सकता है?

- क) अपराध करने का मूल कारण क्या है? (2)
- ख) बुद्धि का प्रयोग किन कार्यों में किया जा रहा है? (2)
- ग) सुखी रहने का मूलमंत्र क्या है? (2)
- घ) अनुच्छेद में किस समस्या को उभारा गया है? (2)
- ङ) (1) प्रस्तुत गद्यांश का उपयुक्त शीर्षक लिखें। (1)
- (2) 'साध्य' शब्द का विलोम लिखें। (1)

प्र02 निम्नलिखित में से किसी एक विषय पर संकेत बिन्दुओं पर आधारित 150-200 शब्दों में निबन्ध लिखिए-

- क) विज्ञान-वरदान या अभिशाप : भूमिका, वर्तमान युग विज्ञान का युग, विज्ञान एक वरदान, विज्ञान : एक अभिशाप, उपसंहार।
- ख) परिश्रम-सफलता की कुंजी : भूमिका, परिश्रम के प्रकार, परिश्रम का महत्त्व, परिश्रम एवं सफलता का संबंध, उपसंहार। (10)

[Part-3 (Maths)]

Note : All questions are compulsory.

Q.1 Do as directed.

- a) The multiplicative inverse of $\frac{-13}{19}$ is
- b) Find the value of y in the linear equation $14y - 8 = 13$.
- c) Find the square root of 576.
- d) Complete the identify: $a^2 - b^2 =$ [4×1 = 4]

Q.2 a) Find the product $(a^2 + b)(a + b^2)$.

- b) The diagonals of a rhombus are 7.5 cm and 12 cm. Find its area.
- c) Find four rational numbers between $\frac{-2}{5}$ and $\frac{1}{2}$.
- d) Find the cube root 64.
- e) Solve for y : $15(y - 4) - 2(y - 9) + 5(y + 6) = 0$. [5×2 = 10]

Q.3 a) Using identity $(x + a)(x + b) = x^2 + (a + b)x + ab$. Find 103×98 .

- b) Find the total surface area of cuboidal box with dimensions 80cm × 30cm × 40cm. [2×3 = 6]

[Part-4 (Science)]

1. What is tissue? [1]
2. Which metal is used to wrap food items. [1]
3. Define pressure. [1]
4. Name two green house gases. [1]
5. What is electroplating? [1]
6. Cells are the basic structural units of living organisms. Explain. [2]
7. Sodium and Potassium are stored in Kerosene. [2]
8. In case of a fire, before the firemen use the water hoses, they shut off the main electrical supply for the area. Explain why they do this? [2]
9. Lightning and thunder take place in the sky at the same time and at the same distance from us. Lightning is seen earlier and thunder is heard later. Can you explain why? [2]
10. Write any two musical instruments which produces sound by vibrating string. [2]
11. (a) Differentiate between thermoplastic and thermosetting plastics.
(b) Draw a well labelled diagram of plant cell. [3, 2]