

SSLC MODEL EXAMINATION , FEBRUARY - 2017

SUBJECT - MATHEMATICS ANSWER KEY TIME : 2½ HRS TOTAL SCORE : 80

തയ്യാറാക്കിയത് : ബാബുരാജ്, പി. , എച്ച്.എസ്.എ (മാൽസ്) , പി.എച്ച്.എസ്.എസ് പന്തളം , ചെപ്പുറം ജില്ല.

ഉത്തരം - 1

3 Score

- (a) ഈ ശ്രേണികൾ കൊടുക്കൂടെ എണ്ണം 9 , 12 , 15 എണ്ണിക്കണക്കാത്ത്.
 $\therefore$ അടുത്ത രൂപമുണ്ടാക്കാൻ വേണ്ട കൊടുക്കൂടെ എണ്ണം = **18**
- (b) ഇവിടെ 1 , 2 , 3 എന്ന് സംഖ്യകളിൽ മാരോന്നിന്റെയും 3 കടങ്ങിനോട് 6 കൂട്ടിയതാണ് മൺ , മൺ , മൺ രൂപങ്ങളിൽ രൂപത്താരിച്ച കൊടുക്കൂടെ എണ്ണം.
- (c) 9 , 12 , 15 എന്ന് ശ്രേണിയുടെ $x_n = dn + (x_1 - d)$
 $= 3n + (9 - 3)$
 $= \underline{3n + 6}$

ഉത്തരം - 2

2 Score

- (a) 12 , 23 , 34 എന്ന് ഈ സമാന്തരശ്രേണിയുടെ $x_1 = 12$, $d = x_2 - x_1 = 23 - 12 = 11$
 $\therefore$ പത്താമത്തെ സംഖ്യ = $x_{10} = x_1 + 9d$
 $= 12 + (9 \times 11)$
 $= 12 + 99 = \underline{111}$
- (b) ഒരു സമാന്തരശ്രേണിയിലെ ഏതു പദത്തെയും പൊതുവ്യത്യാസം കൊണ്ട് ഹരിച്ചാൽ ഒരു ശിഷ്യം കിട്ടുന്നു.
 ഇവിടെ $x_1 = 12$, $d = 11$
 $x_1 / d = 12 / 11$ കണക്കാക്കുമ്പോഴുള്ള ഹരണഫലം = 1 , ശിഷ്യം = 1
 അ സംഖ്യ 1111 നെ പൊതുവ്യത്യാസം 11 കൊണ്ട് ഹരിച്ചുവെച്ചുള്ള ഹരണഫലം = 101 , ശിഷ്യം = 0
 ശിഷ്യങ്ങൾ വ്യത്യസ്തങ്ങളായതുകൊണ്ട് 1111 എന്ന് സംഖ്യ ഈ ശ്രേണിയിലെ പദമല്ല.

ഉത്തരം - 3

5 Score

- (a) ഇവിടെ $x_1 = 6$, $S_3 = 66$
 എന്നാൽ $S_3 = (x_1 + x_3) \times 3$ (തുക = ഒരു പദങ്ങൾയിലെ തുക $\times$ പദങ്ങൾക്കുള്ള എണ്ണം)
 അതായത് $66 = (6 + x_3) \times 3$
 $6 + x_3 = 66 / 3$
 $6 + x_3 = 22$
 $\therefore x_3 = 22 - 6 = 16$
 $\therefore$ ഇതിലെ ആറാം പദം = $22 - 6 = 16$
- (b) ഇവിടെ കിട്ടിയ $x_6 = x_1 + 5d$ ആണ്.
 $\therefore 16 = 6 + 5d$
 $\therefore 5d = 16 - 6 = 10$
 $\therefore d = 10 / 5 = 2$
 അതായത് ശ്രേണിയുടെ പൊതുവ്യത്യാസം = 2
- (c) ശ്രേണിയിലെ ആദ്യത്തെ 6 സംഖ്യകൾ = 6 , 8 , 10 , 12 , 14 , 16

ഉത്തരം - 4 A

4 Score

- (a) ഇവിടെ $x_1 = 6$, $d = 4$
ശ്രേണിയുടെ മീതെത്തിയ രൂപം $x_n = dn + (x_1 - d)$
 $= dn + (x_1 - d)$
 $= 4n + (6 - 4)$
 $= \underline{4n + 2}$

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Table of Contents Maths Paper Answer

1. Understanding the eBook Maths Paper Answer
 - The Rise of Digital Reading Maths Paper Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper Answer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Paper Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper Answer
 - Personalized Recommendations
 - Maths Paper Answer User Reviews and Ratings
 - Maths Paper Answer and Bestseller Lists
5. Accessing Maths Paper Answer Free and Paid eBooks
 - Maths Paper Answer Public Domain eBooks
 - Maths Paper Answer eBook Subscription Services

- Maths Paper Answer Budget-Friendly Options
- 6. Navigating Maths Paper Answer eBook Formats
 - ePub, PDF, MOBI, and More
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 - Maths Paper Answer Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper Answer
 - Highlighting and Note-Taking Maths Paper Answer
 - Interactive Elements Maths Paper Answer
- 8. Staying Engaged with Maths Paper Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper Answer
- 9. Balancing eBooks and Physical Books Maths Paper Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper Answer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper Answer
 - Setting Reading Goals Maths Paper Answer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper Answer
 - Fact-Checking eBook Content of Maths Paper Answer
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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