

সময়—৩ ঘণ্টা

পূর্ণমান—৬০ + ৪০ = ১০০

সৃজনশীল প্রশ্ন

মান—৬০

দ্রষ্টব্য :—জান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। প্রতিটি বিভাগ থেকে কমপক্ষে একটি করে প্রশ্ন নিয়ে মোট ছয়টি প্রশ্নের উত্তর দাও।

ক বিভাগ—পাঠ্যগণিত

- |    |  | মান         |
|----|--|-------------|
| ১। | একটি আয়তাকার বাগানের দৈর্ঘ্য ৪০ মিটার এবং প্রস্থ ৩০ মিটার। বাগানের ভেতর চারিদিকে ৩ মিটার চওড়া একটি রাস্তা আছে। ২৫ সে.মি. দৈর্ঘ্য এবং ১২.৫ সে. মি. প্রস্থবিশিষ্ট ইট দিয়ে রাস্তাটি পাকা করা হলো।<br>(ক) বাগানের ক্ষেত্রফল নির্ণয় কর।<br>(খ) রাস্তার ক্ষেত্রফল নির্ণয় কর।<br>(গ) রাস্তাটি পাকাকরণে প্রয়োজনীয় ইটের সংখ্যা বের কর।   | ২<br>৪<br>৪ |
| ২। | বাবুল হোসেন ৮% ক্ষতিতে একটি ছাগল বিক্রয় করলেন। কিন্তু ছাগলটি ৮০০ টাকা বেশি মূল্যে বিক্রয় করলে তাঁর ৮% লাভ হত। পরবর্তীতে তিনি ছাগলটির ক্রয়মূল্যের সমপরিমাণ টাকা বার্ষিক ১০% মুনাফায় ৩ বছরের জন্যে ব্যাংকে জমা রাখলেন।<br>(ক) ৮% সরল মুনাফায় ৮০০ টাকার ৩ বছরের মুনাফা নির্ণয় কর।<br>(খ) ছাগলটির ক্রয়মূল্য নির্ণয় কর।<br>(গ) উক্ত টাকা ব্যাংকে জমা রাখলে সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য কত হবে? | ২<br>৪<br>৪ |

খ বিভাগ—বীজগণিত

- |    |   |             |
|----|---|-------------|
| ৩। | $U = \{x : x \text{ স্বাভাবিক সংখ্যা এবং } x < 8\};$<br>$P = \{1, 3, 5\};$<br>$Q = \{x : x \text{ স্বাভাবিক সংখ্যা এবং } 1 < x \leq 7\}$ এবং<br>$R = \{2, 4, 6\}.$<br>(ক) $P^c$ নির্ণয় কর।<br>(খ) $(P \cap Q) \cup (Q \cup R)$ নির্ণয় কর।<br>(গ) প্রমাণ কর যে, $(Q \cup R)^c = Q^c \cap R^c.$ | ২<br>২<br>৪ |
| ৪। | $3x + 2y = 12, 2x + 3y = 13$ দুটি সমীকরণ—<br>(ক) $(4, 0)$ বিন্দুটি প্রথম সমীকরণকে সিদ্ধ করে কিনা যাচাই কর।<br>(খ) অপনয়ন পদ্ধতিতে সমীকরণদ্বয়ের সমাধান কর।<br>(গ) লেখচিত্র থেকে সমীকরণদ্বয়ের সমাধান নির্ণয় কর।  | ২<br>৪<br>৪ |
| ৫। | $x + \frac{1}{x} = 5$ একটি বীজগণিতিক সমীকরণ যেখানে $x > 0$ .<br>(ক) $3x + \frac{3}{x}$ এর মান নির্ণয় কর।<br>(খ) $x^4 + \frac{1}{x^4}$ এর মান নির্ণয় কর।<br>(গ) প্রমাণ কর যে, $x^2 - \frac{1}{x^2} \neq x^3 + \frac{1}{x^3}$   | ২<br>৪<br>৪ |

গ বিভাগ—জ্যামিতি

- |    |   |             |
|----|---|-------------|
| ৬। | $ABCD$ একটি আয়তক্ষেত্র যার $AB = 3$ সে. মি. উহার $AC$ ও $BD$ কর্ণদ্বয় পরস্পরকে $O$ বিন্দুতে ছেদ করে।<br>(ক) উল্লীপকের তথ্যগুলো ডিহের সাহায্যে প্রকাশ কর।<br>(খ) প্রমাণ কর যে, $AC = BD$ এবং $AO = CO, BO = DO.$<br>(গ) $AB$ কে একটি বাহুর দৈর্ঘ্য এবং $AC = 5$ সে. মি.-কে একটি কর্ণের দৈর্ঘ্য ধরে একটি রহস্য অঙ্কন কর।<br>[অঙ্কনের চিত্র ও বিবরণ আবশ্যিক] | ২<br>৪<br>৪ |
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[পর পৃষ্ঠা দ্রষ্টব্য]

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

# Jsc Question Math 2014

**Hussin A.Rothana**



**Jsc Question Math 2014:**

## Decoding **Jsc Question Math 2014**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Jsc Question Math 2014**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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web mar 31 2021 the rectangular array allows you to define 1d or a 2d array with a defined number of sources in the x and y axis the options available include the number of sources in x and y and the source to source spacing in lens units along each direction

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web jun 1 2013 the design of the individual lenslets was performed using zemax this 3d microlens array in this study contains 1219 microlenses that are evenly distributed on its concave surface with a high fill factor the overall field of view of this microlens array on curved substrates is more than 104

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web lenslet arrays are modeled using the user defined surface basically the ray trace determines which segment of the array is struck then uses the local lens curvature to determine the refraction the sample source code and dll are provided as us array c and us array dll respectively

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web zemax 1 introuction microlens arrays have been applied in many electro optical and micro optical systems such as flexible light field smart phones<sup>1</sup> solar concentrators<sup>2</sup> data storage<sup>3</sup> and integral imaging 3d displays<sup>4</sup> etc these microlens arrays are typically composed of microlens cells arranged in a deterministic pattern<sup>5</sup> the

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web i set up a hybrid modell including sc source and focusing lens and nsc microlens array lenslet array 1 to generate a uniform line transversaly perpendicular to beam propagation in a certain distance now i want to optimize the microlens toric and aspheric coeff parameteres to achive the best line uniformity and smallest line width

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web sep 24 2020 microlens arrays are the key component in imaging systems because the systems exhibit some excellent optical properties such as large fov angles and low aberration and distortion 6 zemax llc

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web mar 31 2021 zemax llc thanks dr reinhard voelkel of suss microoptics sa for the experimental data used in this article setting up the initial design this article describes a commercial fiber coupler which couples two pieces of corning smf 28e fiber using suss microoptics fc q 250 microlens arrays the manufacturers data is as follows

microlens arrays solar concentrator design using zemax - Feb 26 2022

web nov 3 2015 with optical sensor arrays tiny lens systems serve to focus and concentrate the light onto the photodiode surface instead of allowing it to fall on non photosensitive areas of the pixel device fill factor area occupied by the microlens arrays mostly the lens shape is cylindrical or spherical array size strongly depends on the applications

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web oct 16 2021 help me please to model the lens array in sequential mode i mean some lens no microlens in the same plane on the circle radius icon best answer by ray the sequential dll is quite easy to modify non sequential are more complex there are more array types available in this forum post community zemax