সময়-২ ঘন্টা ১০ মিনিট          মান-৬০          বিষয় কোড:  | ১ | ০ | ৯ |

[নির্দেশ : ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক । প্রতিটি বিভাগ থেকে কমপক্ষে ১টি করে নিয়ে মোট ৬টি প্রশ্নের উত্তর দাও ।]

## ক বিভাগ—পাটিগণিত

১। কোনো আসল ৪ বছরের মুনাফা-আসলে ৫৪০০ টাকা এবং মুনাফা, আসলের ⅘ অংশ ।

ক. প্রতীকের পরিচয়সহ মক্রবৃদ্ধির মূলধনের সূত্রটি লিখ ।                    ২

খ. মুনাফার হার নির্ণয় কর ।                    ৪

গ. উক্ত মুনাফা-আসলকে মূলধন ধরে ৫% হারে ৩ বছরের মক্রবৃদ্ধি মুনাফা ও সরল মুনাফা নির্ণয় কর ।                    ৪

২।



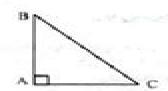ক. −১, ২, ০, ১, ১, ২, ৩ পাটিগণিতির পরবর্তী সংখ্যাটি কত?                    ২

খ. পুকুরের পরিসীমা নির্ণয় কর ।                    ৪

গ. পুকুর পাড়ের প্রতি ৪ বর্গমিটারে ১৫০ টাকা মূল্যের একটি করে গাছ লাগালে কত টাকা খরচ হবে? নির্ণয় কর ।                    ৪

## খ বিভাগ—বীজগণিত

৩। U = {y : y স্বাভাবিক সংখ্যা এবং y ≤ 10}

A = {y : y, 3 এর গুণিতক এবং y < 10}

B = {y : y, 6 এর গুণিতক}

ক. A সেটটিকে তালিকা পদ্ধতিতে প্রকাশ কর ।                    ২

খ. A ∪ B নির্ণয় করে ভেনচিত্রের মাধ্যমে প্রকাশ কর ।                    ৪

গ. দেখাও যে, $(A \cap B)' = A' \cup B'$                    ৪

৪। $a + \frac{1}{a} = 5$ এবং $a > 1$

ক. $\left(a - \frac{1}{a}\right)^2$ এর মান নির্ণয় কর ।                    ২

খ. $a^4 + \frac{1}{a^4}$ এর মান নির্ণয় কর ।                    ৪

গ. দেখাও যে, $a^4 - 110a^2 + 1 = 0$                    ৪

৫। কোনো ভগ্নাংশের লব থেকে 4 বিয়োগ করলে এর মান হয় ½ । আবার, হর থেকে 2 বিয়োগ করলে এর মান হয় 3 ।

ক. ভগ্নাংশটিকে $\frac{x}{y}$ ধরে সমীকরণ জোট গঠন কর ।                    ২

খ. সমীকরণ জোট প্রতিস্থাপন পদ্ধতিতে সমাধান কর ।                    ৪

গ. সমীকরণ জোটের লেখচিত্র অঙ্কন কর ।                    ৪

## গ বিভাগ—জ্যামিতি

৬।



ক. চিত্রসহ ত্রিভুজের মধ্যমার সংজ্ঞা দাও ।                    ২

খ. প্রমাণ কর যে, $BC^2 = AB^2 + AC^2$                    ৪

গ. D, AC এর উপরস্থ একটি বিন্দু হলে, দেখাও যে, $BC^2 + AD^2 = BD^2 + AC^2$                    ৪

৭। O কেন্দ্রবিশিষ্ট বৃত্তের AB ও CD ব্যাস নয় এমন দুইটি জ্যা । [π = 3.1416]

ক. 11 মিটার ব্যাসের বৃত্তাকার একটি বাগানের ক্ষেত্রফল নির্ণয় কর ।                    ২

খ. AB এর মধ্যবিন্দু M হলে, দেখাও যে, OM ⊥ AB.                    ৪

গ. AB ও CD দুটি সমান জ্যা হলে, দেখাও যে, এদের মধ্যবিন্দুগুলো সমদূর ।                    ৪

৮। একটি রম্বসের দুইটি কর্ণ যথাক্রমে 5 সে.মি. ও 4 সে.মি. ।

ক. রম্বসের দুইটি বৈশিষ্ট্য লিখ ।                    ২

খ. অঙ্কনের বিবরণসহ রম্বসটি অঙ্কন কর ।                    ৪

গ. রম্বসের বৃহত্তর কর্ণকে বাহু ধরে একটি বর্গ অঙ্কন কর । (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক)                    ৪

## ঙ বিভাগ—পরিসংখ্যান

৯। ১৪০ জন শিক্ষার্থীর গণিতে প্রাপ্ত নম্বরের সারণি দেওয়া হল:

| প্রাপ্ত নম্বর | ৬-১০ | ১১-১৫ | ১৬-২০ | ২১-২৫ | ২৬-৩০ | ৩১-৩৫ | ৩৬-৪০ |
|---|---|---|---|---|---|---|---|
| ছাত্রসংখ্যা | ৫ | ১৬ | ৫০ | ৪৮ | ৩৩ | ১১ | ৭ |

ক. উদাহরণসহ কেন্দ্রীয় প্রবণতার সংজ্ঞা দাও ।                    ২

খ. সারণি থেকে গড় নির্ণয় কর ।                    ৪

গ. সারণি থেকে আয়তলেখ অঙ্কন কর ।                    ৪

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**Padhraic Smyth**

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