

বহুনির্বাচনি অজীক্স

পশিত

[২০২৩ সালের নিম্নোক্ত অনুযায়ী]

সময়—৩০ মিনিট

পূর্ণমান—৩০

চট্টগ্রাম বোর্ড

বিষয় কোড :

1 0 9

সেট :

ক

[বিশেষ শ্রুতি: সমস্তপ্রদত্ত বহুনির্বাচনি অজীক্সের উত্তরপত্রের প্রশ্নের ত্রুটিসহ সমস্ত প্রশ্নের বিশদীকৃত প্রশ্ন বহুনির্বাচনী বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বসে পয়েন্ট কলাম দ্বারা সম্পূর্ণ করতে। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নপত্রের কোনো প্রকার মাপ/মিছ দেয়া যাবে না।

১। 0.0332 সংখ্যাটির বৈজ্ঞানিক রূপ কোনটি?

(ক) 332×10^{-2} (খ) 3.32×10^{-2} (গ) 33.2×10^{-3} (ঘ) 0.332×10^{-1}

২। কোনো রেখির উপস্থিতি 37 এবং রেখির মধ্যস্থান 34 হলে, ঐ রেখির দৈর্ঘ্য কত?

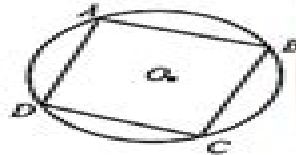
(ক) 40

(খ) 35.5

(গ) 34

(ঘ) 31

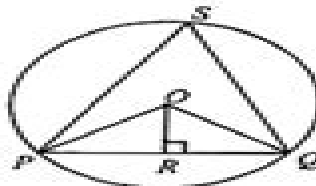
৩।



চিত্রে ABCD বৃত্তের কেন্দ্র O হলে, $\angle BAD + \angle BCD$ এর মান কত?

(ক) 90° (খ) 180° (গ) 270° (ঘ) 360°

নিচের চিত্রের আলেখ্যকে ৪ ও ৫ না প্রশ্নের উত্তর দাও :



চিত্রের PQS বৃত্তের কেন্দ্র O, $OR = 3$ সে.মি. ও $PR = 4$ সে.মি.।

৪। OP-এর দৈর্ঘ্য কত?

(ক) 3 সে.মি.

(খ) 4 সে.মি.

(গ) 5 সে.মি.

(ঘ) 7 সে.মি.

৫। চিত্রানুসারে—

I. PQ-এর সমবিশেষক OR

II. PQ চাপের ওপর দূরত্বমান বৃত্তস্থ $\angle PSQ$ III. $PQ < OP + OQ$

নিচের কোনটি সঠিক?

(ক) I ও II

(খ) I ও III

(গ) II ও III

(ঘ) I, II ও III

৬। $\frac{1 + \tan^2 \theta}{1 - \sin^2 \theta}$ এর মান নিচের কোনটি?(ক) $\sin^4 \theta$ (খ) $\cos^4 \theta$ (গ) $\tan^4 \theta$ (ঘ) $\sec^4 \theta$

৭। সমবাহু ত্রিভুজের—

I. পরিবৃত্তের কেন্দ্র হতে শীর্ষকেন্দ্রের দূরত্ব সমান

II. অন্তর্বৃত্তের কেন্দ্র হতে বাহুকেন্দ্রের দূরত্ব সমান

III. কোণকেন্দ্রের সমবিশেষকত্রয় অন্তর্বৃত্তের কেন্দ্র নিয়ে যায়

নিচের কোনটি সঠিক?

(ক) I ও II

(খ) I ও III

(গ) II ও III

(ঘ) I, II ও III

৮। $A = \{2, 4, 6\}$, $B = \{1, 3, 5\}$ হলে, $A \times B$ এর উপাদান সংখ্যা কতটি?

(ক) ৫ টি

(খ) ৪ টি

(গ) ৯ টি

(ঘ) 16 টি

৯। 81 এর $\sqrt{3}$ ভিত্তিক লগারিদম কত?

(ক) ৪

(খ) 4

(গ) $\frac{1}{4}$ (ঘ) $\frac{1}{8}$ ১০। $\sin \theta = \frac{1}{2}$ হলে, $\cos^2 \theta = ?$ (ক) $\frac{2}{\sqrt{3}}$ (খ) $\frac{\sqrt{3}}{2}$ (গ) $\frac{3}{4}$ (ঘ) $\frac{1}{4}$

নিচের তথ্যের আলেখ্যকে ১১ ও ১২ না প্রশ্নের উত্তর দাও :

 $3^x = a$, $9^{-x} = b$.১১। $a = b$ হলে, $x =$ কত?

(ক) -2

(খ) -1

(গ) 0

(ঘ) 1

১২। নিচের কোন সম্পর্কটি সঠিক?

(ক) $ab^2 = 1$ (খ) $\frac{a}{b^2} = 1$ (গ) $\frac{b^2}{a} = 3$ (ঘ) $a^2b = 1$

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Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **2015new Math Suggestion Ctg Board**

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