

১. 'ক' সংখ্যক ত্রিভুজ স্বাভাবিক বিজোড় সংখ্যার যোগফল কত?
- ক ২০-ক
খ ক^২
গ ২ক + ১
ঘ ২ক
২. নিচের উদ্ভীপকের আলোকে ২ ও ৩ নং প্রশ্নের উত্তর দাও :

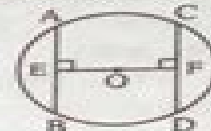
১২	১৯	১৪
১৭	২	১০
১৬	১১	১৮

← একটি ম্যাট্রিক বর্গ

২. ম্যাট্রিক বর্গটির ম্যাট্রিক সংখ্যা কত?
- ক ১৫ খ ৩৪ গ ৩৫ ঘ ৪৫
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- ক ৩ খ ৮
গ ১৫ ঘ ১৭
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- ক ১০ পূণ খ ১০০ পূণ
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৫. বার্ষিক ১০% সরল মুদাফার ১২০০ টাকার ৩ বছরের সরল মুদাফা কত?
- ক ৩৬০ টাকা খ ১২০ টাকা
গ ২৪০ টাকা ঘ ৪৮০ টাকা
৬. ৪ সে.মি. ব্যাসবিশিষ্ট ঘনকের সম্পূর্ণ পৃষ্ঠের ক্ষেত্রফল কত বর্গসে.মি.?
- ক ১৬ খ ২৪ গ ৬৪ ঘ ৯৬
৭. $\frac{x^2y^2}{ab}$ ও $\frac{c^2d^2}{xy}$ এর গুণফল কত হবে?
- ক $\frac{x^2y^2c^2d^2}{abx^2y^2}$ খ $\frac{c^2d^2}{abx^2y^2}$
গ $\frac{x^2y^2c^2}{ab}$ ঘ $\frac{xyd^2}{ab}$
৮. $\frac{x^2-2x+1}{x^2-2x+1}$ কে $\frac{x-1}{a-1}$ দ্বারা ভাগ করলে ভাগফল কত হবে?
- ক $\frac{x+1}{a-1}$ খ $\frac{x-1}{a-1}$
গ $\frac{x-1}{a+1}$ ঘ $\frac{a-1}{x-1}$
৯. সামান্যত্রিকের জন্য নিচের কোনটি সঠিক?
- ক বিশদীত বায়ুগুলো অসামান্যতাল
খ একটি কোণ সমকোণ হলে, তা আয়ত
গ বিশদীত বায়ুদ্বয় অসমান
ঘ কর্ণদ্বয় পরস্পর সমান
১০. নিচের কোনটি রহস্যের বৈশিষ্ট্য?
- ক কর্ণদ্বয় পরস্পর সমান
খ প্রত্যেক কোণই সমকোণ
গ বিশদীত কোণদ্বয় অসমান
ঘ প্রত্যেকটি বায়ুই সমান

১১. একটি চতুর্ভুজ আঁকতে কয়টি অনন্য নির্দেশক উপাত্তের প্রয়োজন?
- ক ৩টি খ ৪টি
গ ৫টি ঘ ৬টি
১২. ১০০০ টাকার ৮% নিচের কোনটি?
- ক ৮০ টাকা খ ৮২ টাকা
গ ৮৪ টাকা ঘ ৮৬ টাকা
১৩. টাকায় ৫টি মরে ক্রয় করে ৪টি মরে বিক্রয় করলে শতকরা কত লাভ বা ক্ষতি হবে?
- ক লাভ ২৫% খ ক্ষতি ২৫%
গ লাভ ২০% ঘ ক্ষতি ২০%
১৪. মুদাফা হিসাবের ক্ষেত্রে-
- i. মুদাফা = মুদাফা-আসল - আসল
আসল × মুদাফার হার × সময়
ii. মুদাফা =
iii. চক্রবৃদ্ধি মুদাফা = চক্রবৃদ্ধি মূলদল - মূলদল
নিচের কোনটি সঠিক?
- ক i ও ii খ i ও iii
গ ii ও iii ঘ i, ii ও iii
১৫. $-5 - y$ এর বর্গ নিচের কোনটি?
- ক $y^2 + 10y + 25$
খ $y^2 - 10y + 25$
গ $25 - 10y + y^2$
ঘ $y^2 - 10y - 25$
১৬. $x^2 - 2x - 3$ ও $x^2 + 2x - 3$ এর গ.সা.পু. কত?
- ক $x + 1$ খ $x - 1$
গ ১ ঘ ০
১৭. $x^2 - \sqrt{3}x + 1 = 0$ হলে
- ক $x + \frac{1}{x}$ এর মান নিচের কোনটি?
খ $-\sqrt{3}x$ ঘ $\sqrt{3}x$
গ $-\sqrt{3}$ ঘ $\sqrt{3}$
১৮. $x^2 + \frac{1}{x}$ এর মান নিচের কোনটি?
- ক ১ খ ৫ গ ৭ ঘ ১১
১৯. পানিপূর্ণ একটি গৌবাচ্চার দৈর্ঘ্য ৩ মিটার, প্রস্থ ২ মিটার ও উচ্চতা ১ মিটার হলে-
- i. গৌবাচ্চার আয়তন ৬ ঘনমিটার
ii. গৌবাচ্চার পানির ওজন ৬০০০ কিলোগ্রাম।
iii. পানি ভর্তি গৌবাচ্চার পানির আয়তন ৬০০০ মিটার
নিচের কোনটি সঠিক?
- ক i ও ii খ ii ও iii
গ ii ও iii ঘ i, ii ও iii
২০. $x + y = 5$, $x - y = 3$ হলে (x, y) এর মান নিচের কোনটি?
- ক (৪, ১) খ (১, ৪)
গ (২, ৩) ঘ (৩, ২)

২১. $x + 2y = 30$ সমীকরণের লেখচিত্রের উপর অবস্থিত বিন্দু
- i. (১০, ১০) ii. (০, ১৫) iii. (১০, ২০)
নিচের কোনটি সঠিক?
- ক i ও ii খ i ও iii
গ ii ও iii ঘ i, ii ও iii
২২. সেট প্রকাশের পদ্ধতি কয়টি?
- ক ১ টি খ ২ টি
গ ৩ টি ঘ ৪ টি
২৩. $S = \{x : x \text{ জোড় সংখ্যক এবং } 1 \leq x \leq 7\}$ সেটটি তালিকা পদ্ধতিতে নিচের কোনটি সঠিক?
- ক {২, ৩, ৪} খ {২, ৪, ৬}
গ {১, ৩, ৫} ঘ {৩, ৫, ৭}
২৪. $2x$ ব্যাসার্ধ বিশিষ্ট বৃত্তের-
- i. পরিধি 4π একক ii. ব্যাস $4r$ একক
iii. ক্ষেত্রফল $= 2\pi r^2$ বর্গ একক
নিচের কোনটি সঠিক?
- ক i ও ii খ i ও iii
গ ii ও iii ঘ i, ii ও iii
২৫. নিচের আলোকে (২৫-২৭) নং প্রশ্নের উত্তর দাও :



- চিত্রে O বৃত্তের কেন্দ্র। $BE = 4$ cm
২৫. $OE = OF$ হলে, $CD =$ কত সে.মি.?
- ক ৩ cm খ ৪ cm
গ ৬ cm ঘ ৮ cm
২৬. $AB = CD$ এবং $OE = 3$ সে.মি. হলে, বৃত্তটির ব্যাসার্ধ কত সে.মি.?
- ক ৩ খ ৪
গ ৫ ঘ ৬
২৭. $AB > CD$ হলে নিচের কোনটি সঠিক?
- ক $CF < BE$ খ $OE > OF$
গ $OE < OF$ ঘ $OE = OF$
২৮. একটি ত্রিভুজের বাহুগুলোর অনুপাত $1 : 1 : \sqrt{2}$ হলে বৃহত্তম কোণটির মান কত?
- ক 80° খ 90° গ 100° ঘ 120°
২৯. ৮, ১২, ১৬, ১৭, ২০ সংখ্যাগুলোর গড় কত?
- ক ১০-৫ খ ১২-৫
গ ১০-৬ ঘ ১৪-৬
৩০. ১০, ১২, ১৪, ১৬, ১৮, ২৫ সংখ্যাগুলোর মধ্যক কত?
- ক ১১-৫ খ ১৪-৬
গ ১৬ ঘ ১৮-৬

উত্তরমালা (মেধা বাচাইয়ের ছক)

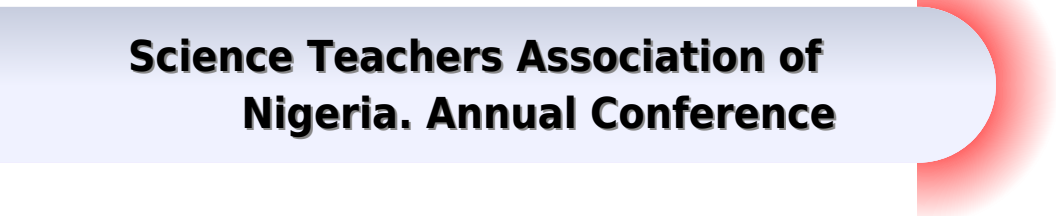
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