

জে এস সি পরীক্ষা ২০১৭ এর মডেল প্রশ্ন (সকল বোর্ডের জন্য)

গণিত

বিষয় কোড : ১০৭

সময়-৩০ মিনিট

বহুনির্বাচনি অভীক্ষা

মান-৩০

[বিশেষ দৃষ্টব্য : সরবরাহকৃত বহুনির্বাচনি অভীক্ষার উত্তরপত্রের প্রথমে ক্রমিক নম্বরের বিশদীতে সঠিক উত্তরের বর্ণটিতে টিক(✓) চিহ্ন দাও। প্রতিটি প্রশ্নের মান ১। সকল প্রশ্নের উত্তর দিতে হবে।]

- $\frac{a}{b} + \frac{b^2}{c^2} =$ কত?
ক) ১ খ) $\frac{a}{b}$ গ) $\frac{a^2}{b^2}$ ঘ) $\frac{b}{a}$
- $x^2 - 2$ এর সাথে কত যোগ করলে যোগফল একটি পূর্ণবর্গ সংখ্যা হবে?
ক) $x^2 + 4$ খ) ৪
গ) $2x$ ঘ) $\frac{1}{x^2}$
- ABCD সামান্তরিকের $\angle B = 100^\circ$ হলে, $\angle C =$?
ক) 80° খ) 90°
গ) 100° ঘ) 110°
- সুদ্রুতম মৌলিক সংখ্যা কোনটি?
ক) ১ খ) ২
গ) ৩ ঘ) ৪
- $a^2 - (-b)^2$ এর উৎপাদক কোনটির সমান?
ক) $(a+b)^2$ খ) $a^2 - b^2$
গ) $(a+b)(a^2 - ab + b^2)$ ঘ) $(a-b)(a^2 + ab + b^2)$
- নিচের তথ্যের ভিত্তিতে ৬ ও ৭ নং প্রশ্নের উত্তর দাও :
যদি $x + y = 8$ এবং $x - y = 2$ হয়, তবে
- $2x^2 + 2y^2 =$ কত?
ক) ৬০ খ) ৬২
গ) ৬৪ ঘ) ৬৪
- $4xy$ -এর মান কত?
ক) ৬০ খ) ৬২
গ) ৬৪ ঘ) ৬৪
- ৩৯ সংখ্যাটি কোন সংখ্যার ৬৫%?
ক) ৯৫ খ) ৭৫
গ) ৬০ ঘ) ৫৫
- টাকায় ৩টি দরে কিনে টাকায় ২ দরে বিক্রয়

করলে লাভ হবে?

- ক) ৬০% খ) ৫০%
গ) ৩০% ঘ) ২০%

১০. $x - \frac{1}{x} = 4$ হলে, $\left(x + \frac{1}{x}\right)^2$ -এর মান কত?

- ক) ২০ খ) ১৪
গ) ১৬ ঘ) ১২

১১. একটি চতুর্ভুজের কর্ণদ্বয় সমান এবং পরস্পরকে সমকোণে সমদ্বিখলিত করলে চতুর্ভুজটি অবশ্যই—

- ক) রম্বস খ) বর্গ
গ) আয়ত ঘ) সামান্তরিক

১২. $\sqrt{3}$ -এর মান কত?

- ক) $\sqrt[3]{3}$ খ) $3\sqrt{3}$
গ) ৩ ঘ) $2\sqrt{3}$

- নিচের তথ্যের ভিত্তিতে ১৩ ও ১৪ নং প্রশ্নের উত্তর দাও :

শ্রেণি	৪২-৪৭	৪৮-৫৩	৫৪-৫৯	৬০-৬৫	৬৬-৭১
পদসংখ্যা	৩	১০	৭	৪	১

১৩. শ্রেণি ব্যবধান কত?

- ক) ৪ খ) ৫
গ) ৬ ঘ) ৭

১৪. মধ্যক শ্রেণি কোনটি?

- ক) ৪৮-৫৩ খ) ৫৪-৫৯
গ) ৬০-৬৫ ঘ) ৪২-৪৭

১৫. $4a^2b^2c^2$, $2a^2bc$ রাশি দুইটির—

- i. সাধারণ উৎপাদক a^2bc
ii. গ.সা.গু. $2a^2bc$
iii. ল.সা.গু. $4a^2b^2c^2$

নিচের কোনটি সঠিক?

- ক) i ও ii খ) i ও iii গ) ii ও iii ঘ) i, ii ও iii

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