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1. Which of the following cannot be the probability of an event?

[IB Security Assist. 2018]

- (a)  $\frac{2}{3}$  (b)  $-1.5$   
(c) 15% (d) 0.7

2. If a dice is thrown, then what will be the probability of getting number smaller than 4?

- (a)  $\frac{1}{6}$  (b)  $\frac{1}{2}$   
(c)  $\frac{1}{3}$  (d)  $\frac{1}{4}$

3. The tickets numbered from 1 to 20 are properly mixed in a bag. What is the probability of choosing a ticket which is multiple of 3?

[SSC CGL 2013]

- (a)  $\frac{1}{20}$  (b)  $\frac{1}{10}$   
(c)  $\frac{3}{20}$  (d)  $\frac{3}{10}$

4. What is the probability of getting an undivisible number after adding two different one digit numbers?

[NDA 2015 II]

- (a)  $\frac{5}{27}$  (b)  $\frac{7}{18}$   
(c)  $\frac{1}{3}$  (d) None of these

5. A dice is thrown what is probability of not getting number 3?

- (a) 1 (b)  $\frac{3}{5}$   
(c)  $\frac{5}{6}$  (d)  $\frac{1}{6}$

6. If  $P(A) = \frac{1}{3}$ ,  $P(B) = \frac{1}{2}$  and  $P(A \cup B) = \frac{5}{6}$ , then events A and B are

(a) mutually exclusive

- (b) independent as well as mutually exhaustive  
(c) independent  
(d) dependent only on A

7. From a well-shuffled pack of 52 cards, a card is drawn at random. Find the probability that it is either a heart or a king.

- (a)  $\frac{4}{13}$  (b)  $\frac{2}{13}$   
(c)  $\frac{1}{13}$  (d)  $\frac{17}{52}$

8. If  $P(A) = 0.25$ ,  $P(B) = 0.50$  and  $P(A \cap B) = 0.14$ , then  $P(A \cap \bar{B})$  is equal to

- (a) 0.61 (b) 0.39  
(c) 0.48 (d) None of these

9. A card is chosen at random from a standard deck of 52 playing cards. Without replacing it, a second card is chosen. What is probability that the first card is king and second is queen?

- (a)  $\frac{5}{663}$  (b)  $\frac{3}{662}$   
(c)  $\frac{4}{661}$  (d)  $\frac{4}{663}$

10. One dice and one coin are tossed simultaneously. The probability of getting 6 on dice and head on coin is

[Airforce X & Y 2017]

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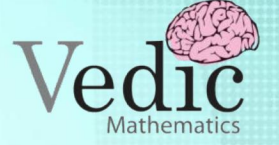
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(a)  $\frac{1}{2}$

(c)  $\frac{1}{12}$

(b)  $\frac{1}{6}$

(d) None of these

11. A bag contains 4 red, 6 green and 5 blue colour balls. If three balls are chosen at random, then what is the probability of getting 2 green and 1 blue colour ball?

(a)  $\frac{20}{91}$

(c)  $\frac{15}{91}$

(b)  $\frac{10}{91}$

(d)  $\frac{5}{91}$

12. Among 15 players, 8 are batsmen and 7 are bowlers. The probability of choosing a team of 6 batsmen and 5 bowlers, is

(a)  $\frac{{}^8C_6 \times {}^7C_5}{{}^{15}C_{11}}$

(c)  $\frac{15}{28}$

(b)  $\frac{{}^8C_6 + {}^7C_5}{{}^{15}C_{11}}$

(d) None of these

13. A boy can pass 2 out of 3 exams. If he passed 4 exams, then what is the probability that he passes the exam twice?

(a)  $\frac{8}{27}$

(c)  $\frac{8}{81}$

(b)  $\frac{9}{23}$

(d)  $\frac{8}{9}$

14. If a dice is thrown twice, then probability of occurrence of 4 at least once, is

(a)  $\frac{11}{36}$

(c)  $\frac{35}{36}$

[RRB Group D 2018]

(b)  $\frac{7}{12}$

(d) None of these

15. A coin is tossed 10 times. The probability of getting exactly six heads is

(a)  $\frac{512}{513}$

(c)  $\frac{100}{153}$

(b)  $\frac{105}{512}$

(d)  ${}^{10}C_6$

