

► General Multiple Choice Questions and Answers

1. Convert $0.\dot{2}3\dot{4}$ into common fraction. [D.B.-19]
 (a) $\frac{211}{900}$ (b) $\frac{234}{909}$ (c) $\frac{234}{900}$ (d) $\frac{26}{111}$ (d)
2. Which is the simple fraction of $0.5\dot{5}\dot{5}$? [R.B.-19]
 (a) $\frac{5}{9}$ (b) $\frac{11}{18}$ (c) $\frac{11}{9}$ (d) $\frac{50}{99}$ (d)
3. Which one is simple fraction of $0.5\dot{7}$? [Dj.B.-19]
 (a) $\frac{31}{45}$ (b) $\frac{26}{45}$ (c) $\frac{52}{99}$ (d) $\frac{57}{90}$ (b)
4. What kind of number $\sqrt{\frac{12}{75}}$ is? [Dj.B.-19]
 (a) Natural (b) Rational
 (c) Irrational (d) Prime (b)
5. Which one of the following is the rational number? [Ctg.B.-19]
 (a) $\frac{\sqrt{5}}{\sqrt{10}}$ (b) $\frac{\sqrt{27}}{\sqrt{48}}$ (c) $\frac{\sqrt{6}}{3}$ (d) $\frac{\sqrt{8}}{\sqrt{7}}$ (b)
6. Which one of the following is the common fraction of $0.3\dot{1}$. [Ctg.B.-19]
 (a) $\frac{28}{99}$ (b) $\frac{31}{100}$ (c) $\frac{14}{45}$ (d) $\frac{31}{90}$ (c)
7. Which one is simple fraction of $3.2\dot{2}$? [S.B.-19]
 (a) $3\frac{1}{3}$ (b) $3\frac{2}{9}$ (c) $3\frac{5}{9}$ (d) $3\frac{7}{9}$ (b)
8. $0.2\dot{7} + 0.3\dot{3} = ?$ [J.B.-19]
 (a) 5.4 (b) 0.54 (c) 0.50 (d) 0.17 (c)
9. Which one is the irrational number? [J.B.-19]
 (a) $\sqrt{9}$ (b) $\sqrt{7}$ (c) 0.5 (d) 0.10 (b)
10. $0.4\dot{4} \times 0.3\dot{3} = ?$ [B.B.-19]
 (a) 1.2 (b) 0.12
 (c) 0.102 (d) 0.148 (d)
11. If $a, b, c \in \mathbb{R}$; $a > b > 0$ and $c < 0$, Which one of the following is correct? [B.B.-19]
 (a) $ac = bc$ (b) $ac > bc$
 (c) $ac < bc$ (d) $ab < bc$ (c)
12. Which one is a natural number? [All B.-18]
 (a) -1 (b) $\sqrt{2}$ (c) $\frac{5}{2}$ (d) 3 (d)
13. Which one of the following is rational number? [D.B.17]
 (a) $2\sqrt{3}$ (b) $\sqrt{7}$ (c) $\frac{\sqrt{3}}{\sqrt{2}}$ (d) $\frac{\sqrt{12}}{\sqrt{3}}$ (d)

14. Which one of the following is a rational number? [R.B.17]
 (a) $\sqrt{11}$ (b) $\frac{\sqrt{6}}{3}$ (c) $\frac{\sqrt{8}}{\sqrt{7}}$ (d) $\frac{\sqrt{27}}{\sqrt{48}}$ (d)
15. Which one is the rational number? [Dj.B.17]
 (a) $\sqrt{5}$ (b) $\sqrt[3]{8}$ (c) $\sqrt{3}$ (d) $\sqrt[3]{7}$ (b)
16. Which one below is a rational number? [Ctg.B.17]
 (a) $\frac{\sqrt{12}}{3}$ (b) $\frac{\sqrt{8}}{2}$ (c) $\frac{5}{\sqrt{5}}$ (d) $\frac{\sqrt{18}}{\sqrt{2}}$ (d)
17. Which one of the following is a rational number? [C.B.17]
 (a) $\sqrt{729}$ (b) $\sqrt{11}$
 (c) $\frac{\sqrt{7}}{3}$ (d) 3.2354678..... (a)
18. Which one is the simple fraction of $0.4\dot{5}$? [Dj.B.17]
 (a) $\frac{4}{9}$ (b) $\frac{9}{20}$ (c) $\frac{5}{11}$ (d) $\frac{9}{11}$ (c)
19. Which one of the following is simple fraction of $0.2\dot{4}$? [Ctg.B.17]
 (a) $\frac{8}{33}$ (b) $\frac{11}{45}$ (c) $\frac{4}{15}$ (d) $\frac{8}{3}$ (b)
20. Which one is the simple fraction of $0.6\dot{9}$? [S.B.17]
 (a) $\frac{7}{11}$ (b) $\frac{69}{100}$ (c) $\frac{23}{30}$ (d) $\frac{7}{10}$ (d)
21. Which one is the simple fraction of $0.01\dot{2}$? [J.B.17]
 (a) $\frac{11}{900}$ (b) $\frac{11}{990}$ (c) $\frac{11}{999}$ (d) $\frac{11}{1000}$ (a)
22. If $A = \phi$, $B = \{a\}$, $A \cup B =$ what? [Ctg.B.17]
 (a) ϕ (b) $\{\phi\}$
 (c) $\{a\}$ (d) $\{a, \phi\}$ (c)
23. Which one is simple fraction of $0.2\dot{4}$? [R.B. 16]
 (a) $\frac{8}{3}$ (b) $\frac{8}{33}$ (c) $\frac{8}{5}$ (d) 5 (b)
24. Which one of the following is a rational number? [B.B. 16]
 (a) $\sqrt{0.4}$ (b) $\sqrt{0.9}$
 (c) $\sqrt{0.04}$ (d) $\sqrt{0.025}$ (c)
25. Which one of the following is irrational? [Ch.B. 16]
 (a) $\frac{\sqrt{5}}{\sqrt{4}}$ (b) $\frac{\sqrt{75}}{\sqrt{27}}$ (c) $\frac{\sqrt{32}}{\sqrt{8}}$ (d) $\frac{\sqrt{18}}{\sqrt{2}}$ (d)
26. All integers and fractional numbers are— [J.B. 16]
 (a) Irrational number (b) Rational number
 (c) Natural number (d) Non-negative number (b)

Chapter-Wise Revision

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27. If the number of subsets of U is 64, what is the number of elements of U? [J.B.17]
 (a) 2 (b) 4 (c) 5 (d) 6 (b)
28. What is the simple fraction form of $0.\dot{3}6\dot{9}$? [Ctg.B.16]
 (a) $\frac{41}{100}$ (b) $\frac{41}{101}$ (c) $\frac{41}{110}$ (d) $\frac{41}{111}$ (d)
29. Which one is the value of $4.\dot{3}\dot{5}$? [Mirzapur Cadet College, Tangail-18]
 (a) $\frac{392}{90}$ (b) $\frac{329}{100}$ (c) $\frac{478}{90}$ (d) $\frac{478}{100}$ (b)
30. What is the simple fraction form of $0.\dot{3}6\dot{9}$? [Mymensingh Girls' Cadet College, Mymensingh-18]
 (a) $\frac{41}{100}$ (b) $\frac{41}{101}$ (c) $\frac{41}{110}$ (d) $\frac{41}{111}$ (d)
31. How many real numbers of the numbers 0.3 , $2 + \sqrt{3}$, $2 - \sqrt{3}$, $\frac{17}{90}$ are there? [Rajshahi Cadet College, Rajshahi-18]
 (a) 1 (b) 2 (c) 3 (d) 4 (b)
32. What is the value of $5.\dot{1}\dot{2} - 3.\dot{4}\dot{5}$? [Joypurhat Girls' Cadet College, Joypurhat-18]
 (a) $1.\dot{6}\dot{5}$ (b) $1.6\dot{6}$ (c) 1.65 (d) $1.6\dot{6}\dot{5}$ (b)
33. Which number is irrational? [Joypurhat Girls' Cadet College, Joypurhat-18]
 (a) $0.\dot{3}$ (b) $\sqrt{\frac{16}{9}}$ (c) $\sqrt[3]{\frac{8}{27}}$ (d) $\frac{5}{\sqrt{3}}$ (d)
34. What is the simple fraction of $0.\dot{4}\dot{5}$? [Joypurhat Girls' Cadet College, Joypurhat-18]
 (a) $\frac{4}{9}$ (b) $\frac{9}{20}$ (c) $\frac{5}{11}$ (d) $\frac{9}{11}$ (c)
35. What is the product of $0.\dot{3}$ and $0.\dot{6}$? [Cumilla Cadet College, Cumilla-18]
 (a) $0.\dot{3}$ (b) $0.01\dot{8}$ (c) 0.18 (d) 0.5 (b)
36. Which one is the rational number in between 0.1 and 0.12 ? [Shaheed Bir Uttam Lt. Anwar Girls' College, Dhaka-18]
 (a) 0.10 (b) 0.11 (c) 0.20 (d) 0.21 (b)
37. What is the value of $2.\dot{4} \times 0.\dot{8}\dot{1}$? [Shaheed Bir Uttam Lt. Anwar Girls' College, Dhaka-18]
 (a) 2 (b) 0.12 (c) $0.\dot{2}$ (d) $1.\dot{2}$ (c)

► Multiple Completion Based Questions and Answers

38. If $x = 0.\dot{4}$ and $y = 0.\dot{8}$, then— [C.B.-19]
 i. $x + y = 1.\dot{3}$
 ii. $xy = \frac{32}{81}$ iii. $\frac{x}{y} = 0.5$
 Which one is correct?
 (a) i and ii (b) i and iii (c) ii and iii (d) i, ii and iii (d)
39. In case of real number— [S.B.17]
 i. $\sqrt{81}$ is an odd number
 ii. 0.21 is an improper fraction
 iii. 0 is an integer
 Which one of the following is correct?
 (a) i and ii (b) i and iii (c) ii and iii (d) i, ii and iii (d)
40. Of two irrational numbers — [B.B.16]
 i. sum is always an irrational number
 ii. difference is always an irrational number
 iii. product can be either rational or irrational
 Which one of the following is correct?
 (a) i and ii (b) i and iii (c) ii and iii (d) i, ii and iii (d)
41. If a, b, c are real numbers, then — [R.B.17]
 i. $a(b + c) = ab + ac$
 ii. If $a < b$ then $a + c < b + c$
 iii. If $a < b$ and $c < 0$ then $ac > bc$
 In the light of the above information which one of the following is correct?
 (a) i and ii (b) i and iii (c) ii and iii (d) i, ii and iii (d)
42. Zero is— [Mymensingh Girls' Cadet College, Mymensingh-18]
 i. Non-negative number
 ii. Rational number
 iii. Integer number
 Which one of the following is correct?
 (a) i, ii (b) i, iii (c) ii, iii (d) i, ii, iii (d)
43. An irrational number between 1 and 2 is— [Rajshahi Cadet College, Rajshahi-18]
 i. $\sqrt{3}$
 ii. 1.45
 iii. $\sqrt{2}$
 Identify the correct option on the basis of the above information.
 (a) i, ii (b) ii, iii (c) i, iii (d) i, ii, iii (c)
44. The simple fraction $\frac{p}{q}$ is the proper fraction, where a & b are mutually prime and— [Viqarunnisa Noon School & College, Dhaka-18]
 i. $b > a$
 ii. $b \neq 1$ iii. $b \neq 0$
 Which one of the following is correct?
 (a) i & ii (b) ii & iii (c) i & iii (d) i, ii & iii (d)
45. Observe the following information— [Viqarunnisa Noon School & College, Dhaka-18]
 i. 5.32 is a rational number
 ii. $\sqrt{-25}$ is an imaginary number
 iii. $\sqrt{\frac{36}{49}}$ is an irrational number
 Which one of the following is correct?
 (a) i & ii (b) ii & iii (c) i & iii (d) i, ii & iii (d)
46. Observe the following— [Scholars' School & College, Dhaka-18]
 i. 0 is a natural number
 ii. $\sqrt{8}$ is an irrational number
 iii. all the natural numbers are real numbers
 Which one is correct?
 (a) i & ii (b) i & iii (c) ii & iii (d) i, ii & iii (d)