

KAUN BANEGA CHAMPION E-BOOK



BY
KBC FOUNDATION

CLASS 8



SESSION 2026-27

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Conjunctions & Interjections :

Select the suitable option :

Q.1 Take the umbrella ___ it is raining outside.

- (A) because**
- (B) and**
- (C) but**
- (D) so**

Q.2 ___ Rakesh or Sandeep will receive you.

- (A) but**
- (B) either**
- (C) and**
- (D) none of the above**

Q.3 Priya is good both singing ___ dancing.

- (A) so**
- (B) but**
- (C) and**
- (D) or**

Q.4 Mr. Banerjee is rich ___ he does not help others.

- (A) so**
- (B) and**
- (C) but**
- (D) none of the above**

Q.5 You will be successful ___ you work hard.

- (A) yet**
- (B) but**
- (C) and**
- (D) if**

Q.6 ___! We have won the competition.

(A) Hurrah!

(B) Alas!

(C) Oops!

(D) Ouch!

Q.7 ___! You are hurting me.

(A) Hurrah!

(B) Alas!

(C) Oops!

(D) Ouch!

Q.8 ___! I forgot my umbrella.

(A) Hurrah!

(B) Wow!

(C) Oops!

(D) Ouch!

Q.9 ___! Her mother died yesterday.

(A) Hurrah!

(B) Alas!

(C) Oops!

(D) Ouch!

Q.10 ___! It's unbelievable!

(A) Wow!

(B) Yuck!

(C) Oops!

(D) Ouch!

Prepositions & Agreement of Verbs :

Select the suitable preposition..

Q.11 The lion was killed _____ the hunter.

- (A) in**
- (B) on**
- (C) by**
- (D) with**

Q.12 Father divided his property _____ four sons.

- (A) between**
- (B) among**
- (C) of**
- (D) in**

Q.13 He has been living in this house _____ 1985.

- (A) for**
- (B) since**
- (C) in**
- (D) on**

Q.14 I shall return _____ a month.

- (A) In**
- (B) Of**
- (C) On**
- (D) for**

Q.15 The Ramayana is lying _____ the table.

- (A) In**
- (B) Of**
- (C) On**
- (D) for**

Q.16 The farmers _____ ploughing their field.

- (A) is**
- (B) were**
- (C) have**
- (D) had**

Q.17 One of the students _____ talking.

- (A) were**
- (B) was**
- (C) are**
- (D) has**

Q.18 The jury _____ divided in their opinion.

- (A) were**
- (B) was**
- (C) are**
- (D) has**

Q.19 There _____ many exceptions to this rule.

- (A) is**
- (B) was**
- (C) are**
- (D) has**

Q.20 The boys _____ gone to school.

- (A) has**
- (B) have**
- (C) are**
- (D) is**

Tenses :

Select the suitable option :

Q.21 The fire _____ the huts before the fire brigade came.

- (A) had burnt**
- (B) will burn**
- (C) has burnt**
- (D) bums**

Q.22 I have _____ my work.

- (A) do**
- (B) does**
- (C) will do**
- (D) done**

Q.23 Don't make a noise, she _____.

- (A) sleep**
- (B) will sleep**
- (C) is sleeping**
- (D) none**

Q.24 Will you go _____ a movie ?

- (A) to see**
- (B) seen**
- (C) to seeing**
- (D) none**

Q.25 They _____ to Shimla last year.

- (A) will go**
- (B) went**
- (C) will have gone**
- (D) none**

Q.26 I met Mohan when he _____ to the post office.

- (A) is going**
- (B) has gone**
- (C) was going**
- (D) none**

Q.27 He _____ us to go out in the boat yesterday.

- (A) does not allow**
- (B) allows**
- (C) did not allow**
- (D) has not allowed**

Q.28 When I saw him he _____ a portrait.

- (A) is painting**
- (B) painted**
- (C) was painting**
- (D) had painting**

Q.29 He risked _____ out in the rain.

- (A) to go**
- (B) going**
- (C) will go**
- (D) none**

Q.30 The bus _____ before we reached the bus stand.

- (A) left**
- (B) has left**
- (C) had left**
- (D) will have left**

In the following questions, the sentences have been given in Active/Passive voice. From the given alternatives, choose the one which best expresses the given sentence in Passive/Active voice.

Q.31 I am waiting for my friend.

- (A) My friend is being waited for by me**
- (B) My friend is waited for by me.**
- (C) My friend was being waited for by me.**
- (D) My friend is waiting for me.**

Q.32 Is he not painting the picture?

- (A) Is the picture not being painted by him?**
- (B) The picture was not being painted by him.**
- (C) The picture is painted by him.**
- (D) Is The picture painted by him?**

Q.33 Who was making a noise?

- (A) By whom is a noise be made?**
- (B) By whom is a noise being made?**
- (C) By whom was a noise being made?**
- (D) By whom is a noise being made?**

Q.34 I have taken tea.

- (A) Tea have been taken by me.**
- (B) Tea has been taken by us.**
- (C) Tea had been taken by me.**
- (D) Tea has been taken by me.**

Q.35 Who has called you?

- (A) By whom had you been called?**
- (B) By whom have you been called?**
- (C) By whom are you been called?**
- (D) By whom were you been called?**

Q.36 The jug contains milk.

- (A) The milk is contained in the jug.**
- (B) Milk is contained by the jug.**
- (C) Milk is contained in the jug.**
- (D) Milk has been contained in the jug.**

Q.37 She knows me very well.

- (A) I am known very well by her.**
- (B) I was known to her very well.**
- (C) I am known to her very well.**
- (D) She is known to very well.**

Q.38 The play was liked by all.

- (A) All like the play.**
- (B) All play is liked.**
- (C) All liked the play.**
- (D) All like the play.**

Q.39 I am known by him.

- (A) She is known to me.**
- (B) He is known by me.**
- (C) He is known to me.**
- (D) He knows me.**

Q.40 They look at the map.

- (A) The map is looked at by them.**
- (B) The map was looked at by them.**
- (C) The map is looked by them.**
- (D) The map is being looked at by them.**

Direct and Indirect Speech :

Select the suitable Direct to Indirect Speech :

Q.41 She will say, "I am playing football."

- (A) She will say that I am playing football.**
- (B) She will say that she is playing football.**
- (C) She will say she was playing football.**
- (D) She will say that she was playing football.**

Q.42 Ram said, "I always speak the truth."

- (A) Ram said I always speak the truth.**
- (B) Ram said that he always speaks the truth.**
- (C) Ram said that he always spoke the truth.**
- (D) Ram said that he always had spoken the truth.**

Q.43 He said, "I don't need this pen."

- (A) He said that he doesn't need that pen.**
- (B) He said that he didn't need this pen.**
- (C) He said that he didn't need that pen.**
- (D) He said that I didn't need that pen.**

Q.44 Ram said, "I am rich."

- (A) Ram said that I was rich.**
- (B) Ram said that he is rich.**
- (C) Ram said that he is rich.**
- (D) Ram said that he was rich.**

Q.45 The teacher said, "The sun rises in the east."

- (A) The teacher said that the sun rose in the east.**
- (B) The teacher said that the sun had risen in the east.**
- (C) The teacher said that the sun rises in the east.**
- (D) The teacher said that the sun risen in the east.**

Q.46 Sohan said to me, "We have won the match."

- (A) Sohan told me we have won the match.**
- (B) Sohan told me if they have won the match.**
- (C) Sohan told me that they had won the match.**
- (D) Sohan said to me that they had won the match.**

Q.47 She said to me, "You lost my book."

- (A) She said to me that I lost my book,**
- (B) She told me that I lost her book.**
- (C) She told me that I had lost her book.**
- (D) She told me that she had lost my book.**

Q.48 He said to me, "You can take my slate."

- (A) He said to me that you could take his slate.**
- (B) He told me that I could take his slate.**
- (C) He told me that he could take my slate.**
- (D) He told me that I could take my slate.**

Q.49 Mohan said, “I don’t smoke a cigarette.”

(A) Mohan said that he didn’t smoke a cigarette.

(B) Mohan said that I didn’t smoke a cigarette.

(C) Mohan said that he does not smoke a cigarette.

(D) Mohan asked that he does not smoke a cigarette.

Q.50 The old man said, “God is everywhere.”

(A) The old man said that God was everywhere.

(B) The old man said that God has been everywhere.

(C) The old man asked that God is everywhere.

(D) The old man said that God is everywhere.

Answers :

**1. (A), 2. (B), 3. (C), 4. (C), 5. (D), 6. (A), 7. (D), 8. (C),
9. (B), 10. (A), 11. (C), 12. (B), 13. (B), 14. (D), 15. (C), 16.
(B), 17. (B), 18. (A), 19. (C), 20. (B), 21. (A), 22. (D), 23.
(C), 24. (A), 25. (B), 26. (C), 27. (C), 28. (C),
29. (A), 30. (C), 31. (A), 32. (A), 33. (C), 34. (D),
35. (B), 36. (B), 37. (A), 38. (C), 39. (D), 40. (C),
41. (B), 42. (C), 43. (C), 44. (D), 45. (C), 46. (C),
47. (C), 48. (B), 49. (A), 50. (D)**

Idioms & Phrases :

Pick the right meanings of the following idioms and phrases.

Q.1 At the drop of the hat:

- (A) As soon as it was spoken**
- (B) Done easily**
- (C) Done instantly without any delay**
- (D) After something is done**

Q.2 Keep at bay:

- (A) Keep someone at a distance**
- (B) Keep at the sea-shore**
- (C) Keep in mind**
- (D) Keep thinking about something**

Q.3 A man of straw:

- (A) A man with no means**
- (B) A generous man**
- (C) A man of character**
- (D) A man of no substance**

Q.4 Give cold shoulder:

- (A) Shiver**
- (B) Cold meat**
- (C) To ignore**
- (D) To support**

Q.5 Hold one's horse:

- (A) Keep one's expectations**
- (B) Keep one's gift**
- (C) Have patience**
- (D) High on energy**

Q.6 Hornet's nest:

- (A) A bee's house**
- (B) An unpleasant situation**
- (C) A busy house**
- (D) A dangerous place**

Q.7 Never-never land

- (A) An imaginary place**
- (B) Grass land**
- (C) A worthless place**
- (D) A useless situation**

Q.8 Cap it all:

- (A) To cover everything**
- (B) To seize everything**
- (C) To finish**
- (D) To occur**

Q.9 Like a sitting duck:

- (A) Lazy**
- (B) Fat**
- (C) Easy to attack**
- (D) Ignorant**

Q.10 Pull your socks up

- (A) To get ready**
- (B) To improve**
- (C) To start**
- (D) To finish**

Antonyms :

Select the suitable antonym :

Q.11 What is the antonym of "Bright"?

- (A) Light**
- (B) Sharp**
- (C) Dull**
- (D) Tight**

Q.12 Antonym for "Fast".

- (A) Quick**
- (B) Slow**
- (C) Swift**
- (D) High**

Q.13 What is the antonym of "Dirty"?

- (A) Filthy**
- (B) Clean**
- (C) Dusty**
- (D) Spotty**

Q.14 Antonym for "Hardworking".

- (A) Smart**
- (B) Active**
- (C) Lazy**
- (D) Busy**

Q.15 What is the antonym of "Empty"?

- (A) Full**
- (B) Hot**
- (C) Big**
- (D) High**

Synonyms :

Select the suitable synonym :

Q.16 Choose the synonym for "Happy":

- (A) Sad**
- (B) Joyful**
- (C) Angry**
- (D) Tired**

Q.17 Choose the synonym for "Fast":

- (A) Slow**
- (B) Swift**
- (C) Lazy**
- (D) Quiet**

Q.18 Choose the synonym for "Big":

- (A) Huge**
- (B) Small**
- (C) Tiny**
- (D) Thin**

Q.19 Choose the synonym for "Easy":

- (A) Hard**
- (B) Difficult**
- (C) Simple**
- (D) Rough**

Q.20 Choose the synonym for "Clean":

- (A) Dirty**
- (B) Neat**
- (C) Filthy**
- (D) Messy**

Non-Finite Verbs :

Select the suitable option for non-finite verbs :

Q.21 "Giving is better than receiving."

- (A) giving**
- (B) is**
- (C) receiving**
- (D) giving, receiving**

Q.22 "Climbing a tree to pluck mangoes is a thrilling experience."

- (A) climbing**
- (B) to pluck**
- (C) thrilling, climbing**
- (D) climbing, to pluck,**

Q.23 "Our salvation lies in realizing our kinship with all of humanity."

- (A) salvation**
- (B) lies**
- (C) realizing**
- (D) lies, realizing**

Q.24 "The broken mirror reflected the images in a distorted manner."

- (A) broken**
- (B) broken, distorted**
- (C) reflected**
- (D) distorted**

Q.25 "We practice meditation to liberate ourselves from the burden of craving and ignorance."

- (A) practice**
- (B) to liberate**
- (C) craving**
- (D) to liberate, craving**

Q.26 You don't need _____ yet, there's still some time left for the guests to come.

- (A) Cooking**
- (B) To cook**
- (C) Cooked**
- (D) To be cooked**

Q.27 Which is not an infinitive?

- (A) to visualize**
- (B) to understand**
- (C) to wonder**
- (D) to wind**

Q.28 I arranged ____ the American businessmen for my country.

- (A) meeting**
- (B) to meeting**
- (C) to meet**
- (D) to be met**

Q.29 I planed ____ to the theatre myself as the others. didn't want to come with me.

- (A) to go**
- (B) going**
- (C) being gone**
- (D) to going**

Q.30 They rescued a wounded soldier.

- (A) Gerund**
- (B) Past Participle**
- (C) Present participle**
- (D) Infinitive**

Adverb :

Select the suitable option for adverb :

Q.31 She smiled at me beautifully.

- (A) Smiled**
- (B) At**
- (C) She**
- (D) Beautifully**

Q.32 She is going to come to class tomorrow.

- (A) Going**
- (B) Come**
- (C) Tomorrow**
- (D) Class**

Q.33 I was extremely sad about the whole situation.

- (A) Sad**
- (B) About**
- (C) Whole**
- (D) Extremely**

Q.34 I really like the way he talks to everyone.

- (A) Really**
- (B) Like**
- (C) Way**
- (D) Everyone**

Q.35 He danced graciously at her wedding.

- (A) Danced**
- (B) Graciously**
- (C) Her**
- (D) Wedding**

Q.36 He has habit of driving cars fast.

- (A) Cars**
- (B) Habit**
- (C) Fast**
- (D) Driving**

Q.37 She must be busy right now.

- (A) Now**
- (B) Busy**
- (C) Must**
- (D) She**

Q.38 I have already known the truth before you told me.

- (A) Already**
- (B) Truth**
- (C) Before**
- (D) Told**

Q.39 They visited their farm house yesterday.

- (A) Visited**
- (B) Farm**
- (C) Yesterday**
- (D) They**

Q.40 Please read the instructions carefully.

- (A) Carefully**
- (B) Read**
- (C) Please**
- (D) Instructions**

Sentence & its Parts :

Select the suitable option :

Q.41 Last year Ali's brother walked the Appalachian Trail.

- (A) Exclamatory**
- (B) Declarative**
- (C) Imperative**
- (D) Interrogative**

Q.42 Our family is planning a trip to the mountains.

- (A) Exclamatory**
- (B) Imperative**
- (C) Declarative**
- (D) Interrogative**

Q.43 Is snowboarding as much fun as it looks?

- (A) Exclamatory**
- (B) Interrogative**
- (C) Imperative**
- (D) Declarative**

Q.44 Wow! I've never been in a city this huge!

- (A) Exclamatory**
- (B) Declarative**
- (C) Imperative**
- (D) Interrogative**

Q.45 What would happen if you had an accident?

- (A) Exclamatory**
- (B) Declarative**
- (C) Imperative**
- (D) Interrogative**

Q.46 Watch your step when you get off the train.

- (A) Exclamatory**
- (B) Declarative**
- (C) Imperative**
- (D) Interrogative**

Q.47 Buy you tickets here for the Statue of Liberty.

- (A) Exclamatory**
- (B) Declarative**
- (C) Imperative**
- (D) Interrogative**

Q.48 How wonderful the statue looks from the sea!

- (A) Exclamatory**
- (B) Declarative**
- (C) Imperative**
- (D) Interrogative**

Q.49 Don't miss the bus tour of the city.

- (A) Exclamatory**
- (B) Declarative**
- (C) Imperative**
- (D) Interrogative**

Q.50 Take plenty of pictures.

- (A) Exclamatory**
- (B) Declarative**
- (C) Imperative**
- (D) Interrogative**

Answers :

1. (C), 2. (A), 3. (D), 4. (C), 5. (C), 6. (B), 7. (A), 8. (C),
9. (D), 10. (B), 11. (C), 12. (B), 13. (B), 14. (C), 15. (A),
16. (B), 17. (B), 18. (A), 19. (C), 20. (B), 21. (D), 22. (D),
23. (C), 24. (B), 25. (D), 26. (B), 27. (D), 28. (A),
29. (A), 30. (B), 31. (D), 32. (C), 33. (D), 34. (A),
35. (B), 36. (C), 37. (A), 38. (A), 39. (C), 40. (A),
41. (B), 42. (C), 43. (B), 44. (A), 45. (D), 46. (C),
47. (C), 48. (A), 49. (C), 50. (C)

Mathematics :

A Square & A Cube :

Select the suitable option :

Q.1 What is the square of 15?

- (A) 125**
- (B) 225**
- (C) 625**
- (D) 255**

Q.2 Which is a perfect square?

- (A) 32**
- (B) 66**
- (C) 81**
- (D) 48**

Q.3 The square root of 1.44 is:

- (A) 1.2**
- (B) 12**
- (C) 0.12**
- (D) 1.12**

Q.4 What is the smallest number by which 72 must be multiplied to make it a perfect square?

- (A) 2**
- (B) 3**
- (C) 4**
- (D) 6**

Q.5 A perfect square number never ends with the digit:

- (A) 1**
- (B) 4**
- (C) 6**
- (D) 8**

Q.6 What is the cube of 0.3?

- (A) 0.9**
- (B) 0.09**
- (C) 0.027**
- (D) 0.27**

Q.7 Which is a perfect cube?

- (A) 100**
- (B) 1000**
- (C) 500**
- (D) 243**

Q.8 The cube root of 512 is:

- (A) 6**
- (B) 7**
- (C) 8**
- (D) 9**

Q.9 The cube of a negative number is always:

- (A) Positive**
- (B) Negative**
- (C) Zero**
- (D) 1**

Q.10 Find the smallest number by which 81 must be divided to get a perfect cube:

- (A) 3**
- (B) 9**
- (C) 27**
- (D) 2**

Power Play :

Select the suitable option :

Q.11 $5^0 = ?$

- (A) 12
- (B) 1
- (C) 215
- (D) 5

Q.12 The value of 2^{-4} is

- (A) 16
- (B) $1/16$
- (C) 8
- (D) -8

Q.13 The multiplicative inverse of 7^{-n} is:

- (A) $1/n$
- (B) $7n$
- (C) $1/7^n$
- (D) 7^n

Q.14 Find the value of $2^4 \times 2^{-5} \times 2^6$

- (A) 8^{40}
- (B) 2^5
- (C) 2^8
- (D) $1/2^8$

Q.15 $5^8/5^4$ is equal to _____ .

- (A) 5
- (B) 5^4
- (C) 125
- (D) 5^{-4}

Q.16 Find the value of $(5^8)^{-5}$

- (A) 5^{40}**
- (B) 5^{-40}**
- (C) 125**
- (D) 625**

Q.17 $100^0 + 5^0 + 3^0$ is equal to _____ .

- (A) 108**
- (B) 3**
- (C) 4**
- (D) 5**

Q.18 If $5^{n+4} \times 5^{40} = 5^4$ then $n = ?$

- (A) -40**
- (B) 14**
- (C) 38**
- (D) 16**

Q.19 What is the value of $(2^4 + 3^0 + 4^4)^0$?

- (A) 9**
- (B) 24**
- (C) 1**
- (D) 27**

Q.20 $(-1)^{56}$ is equal to:

- (A) -1**
- (B) 1**
- (C) 56**
- (D) -56**

A Story of Numbers :

Select the suitable option :

Q.21 If a number ends in 0, it is always divisible by:

- (A) 2 and 5 only**
- (B) 5 and 10 only**
- (C) 2, 5, and 10**
- (D) 3 and 9**

Q.22 A number is divisible by 9 if the sum of its digits is divisible by:

- (A) 3**
- (B) 6**
- (C) 9**
- (D) 2**

Q.23 Which number is divisible by 3?

- (A) 1234**
- (B) 5612**
- (C) 7890**
- (D) 4321**

Q.24 If the three-digit number $24x$ is divisible by 9, what is the value of x ?

- (A) 3**
- (B) 4**
- (C) 5**
- (D) 2**

Q.25 The sum of a two-digit number and the number obtained by reversing its digits is always divisible by:

- (A) 9**
- (B) 10**
- (C) 11**
- (D) 7**

Q.26 The difference between a two-digit number and the number obtained by reversing its digits is always divisible by:

- (A) 11**
- (B) 9**
- (C) 5**
- (D) 2**

Q.27 A number is divisible by 5 if its units digit is:

- (A) 0 or 2**
- (B) 0 or 5**
- (C) 5 only**
- (D) Any even number**

Q.28 If a number is divisible by 10, it must also be divisible by:

- (A) 3**
- (B) 4**
- (C) 5**
- (D) 8**

Q.29 The Mesopotamian number system is based on which number?

- (A) 10**
- (B) 20**
- (C) 60**
- (D) 100**

Q.30 In the Egyptian number system, each landmark number is how many times its previous number?

- (A) 2 times**
- (B) 5 times**
- (C) 10 times**
- (D) 60 times**

Factorisation :

Select the suitable option :

Q.31 The factorisation of $12a^2b+15ab^2$ gives:

- (A) $3ab(4ab+5)$**
- (B) $3ab(4a+5b)$**
- (C) $3a(4a+5b)$**
- (D) $3b(4a + 5b)$**

Q.32 The factorisation of $12x+36$ is

- (A) $12(x+3)$**
- (B) $12(3x)$**
- (C) $12(3x+1)$**
- (D) $x(12+36x)$**

Q.33 On factorisation $14pq + 35pqr$, we get:

- (A) $pq(14+35r)$**
- (B) $p(14q+35qr)$**
- (C) $q(14p+35pr)$**
- (D) $7pq(2+5r)$**

Q.34 The factors of $6xy - 4y + 6 - 9x$ are:

- (A) $(3x + 2)(2y + 3)$**
- (B) $(3x - 2)(2y - 3)$**
- (C) $(3x - 2)(2y + 3)$**
- (D) $(3x - +2)(2y - 3)$**

Q.35 The factors of $x^2+xy+8x+8y$ are:

- (A) $(x+y)(x+8)$**
- (B) $(2x+y)(x+8)$**
- (C) $(x+2y)(x+8)$**
- (D) $(x+y)(2x+8)$**

Q.36 The factors of $4y^2 - 12y + 9$ is:

- (A) $(2y+3)(2y+3)$**
- (B) $(2y-3)(2y-3)$**
- (C) $(2y-3)(2y+3)$**
- (D) None of the above**

Q.37 The factors of $49p^2 - 36$ are:

- (A) $(7p+6)(7p+6)$**
- (B) $(7p-6)(7p-6)$**
- (C) $(7p - 6)(7p + 6)$**
- (D) None of the above**

Q.38 The factors of $m^2 - 256$ are:

- (A) $(m + 4)(m + 4)$**
- (B) $(m - 4)(m - 4)$**
- (C) $(m - 4)(m+4)$**
- (D) None of the above**

Q.39 When we factorise x^2+5x+6 , then we get:

- (A) $(x + 2)(x + 3)$**
- (B) $(x - 2)(x - 3)$**
- (C) $(x + 2)(x - 3)$**
- (D) $(x + 3)(x + 4)$**

Q.40 The factors of $3m^2 + 9m + 6$ are:

- (A) $(m + 1)(m + 2)$**
- (B) $3(m + 1)(m + 2)$**
- (C) $6(m + 1)(m + 2)$**
- (D) $9(m + 1)(m + 2)$**

We Distribute Yet Things Multiply :

Select the suitable option :

Q.41 $a(b+c)= ?$

- (A) $ab+c$**
- (B) $ab+bc$**
- (C) abc**
- (D) $ab+ac$**

Q.42 $5(x+3)-2(x-1)=?$

- (A) $3x+13$**
- (B) $3x+15$**
- (C) $3x+17$**
- (D) $5x+13$**

Q.43 If the product of two numbers a and b is ab and both numbers are increased by 1, then product:

- (A) $ab+b+1$**
- (B) $ab+a+1$**
- (C) $ab+a+b+1$**
- (D) $ab+1$**

Q.44 Evaluate $99 \times 101 = ?$

- (A) 9999**
- (B) 10000**
- (C) 9901**
- (D) 9990**

Q.45 $(a - b)(a + b) = ?$

- (A) $a^2 + b^2$**
- (B) ab**
- (C) $a^2 - b^2$**
- (D) $2ab$**

Q.46 $(p - 1)(p + 11) = ?$

- (A) $p^2 + 10p - 11$**
- (B) $p^2 + 10p + 11$**
- (C) $p^2 - 10p - 11$**
- (D) $p^2 - 1$**

Q.47 Which represent the digital pattern $2(a^2 + b^2)$?

- (A) $(a + b)^2 - (a - b)^2$**
- (B) $(a + b)^2 + (a - b)^2$**
- (C) $2ab$**
- (D) $a^2 - b^2$**

Q.48 In a pattern of circles, if step k has $k^2 + 2k$ circles, how many circles are there in step 15?

- (A) 225**
- (B) 30**
- (C) 255**
- (D) 285**

Q.49 A square has side $(x+5)$, a smaller square of side x is cut out. What is the remaining area?

- (A) $10x+25$
- (B) $25-10x$
- (C) $x+25$
- (D) $5x+10$

Q.50 If $a=7$ and $b=4$, then $(a + b)^2 + (a - b)^2 = ?$

- (A) 65
- (B) 130
- (C) 140
- (D) 25

Answers:

1. (B), 2. (C), 3. (A), 4. (A), 5. (D), 6. (C), 7. (B), 8. (C),
9. (B), 10. (A), 11. (B), 12. (B), 13. (D), 14. (B), 15. (B),
16. (B), 17. (B), 18. (A), 19. (C), 20. (B), 21. (C), 22. (C),
23. (C), 24. (A), 25. (C), 26. (B), 27. (B), 28. (C),
29. (C), 30. (C), 31. (D), 32. (A), 33. (D), 34. (B),
35. (A), 36. (B), 37. (C), 38. (D), 39. (A), 40. (B),
41. (D), 42. (C), 43. (C), 44. (A), 45. (C), 46. (A),
47. (B), 48. (C), 49. (A), 50. (B)

Fractions in Disguise :

Select the suitable option :

Q.1 Express fraction $\frac{3}{5}$ as a percentage:

- (A) 30%**
- (B) 50%**
- (C) 60%**
- (D) 75%**

Q.2 Convert 25% into a fraction in its simplest form.

- (A) $\frac{25}{10}$**
- (B) $\frac{1}{4}$**
- (C) $\frac{1}{2}$**
- (D) $\frac{1}{5}$**

Q.3 If a student scores 45 out of 60, what is their percentage?

- (A) 60%**
- (B) 70%**
- (C) 75%**
- (D) 80%**

Q.4 What is 20% of 360?

- (A) 60**
- (B) 72**
- (C) 80**
- (D) 90**

Q.5 Express 0.05 as a fraction:

- (A) $\frac{1}{5}$**
- (B) $\frac{1}{20}$**
- (C) $\frac{1}{2}$**
- (D) $\frac{1}{50}$**

Q.6 If 40% of a number is 80, what is the number?

- (A) 120**
- (B) 160**
- (C) 200**
- (D) 320**

Q.7 A shopkeeper sells a shirt for Rs. 500 after a discount of 20%. What was the original price?

- (A) Rs. 600**
- (B) Rs. 625**
- (C) Rs. 650**
- (D) Rs. 700**

Q.8 In a class of 40 students, 25% are girls. How many boys are there?

- (A) 10**
- (B) 20**
- (C) 25**
- (D) 30**

Q.9 Which is equivalent to 150%?

- (A) $\frac{1}{2}$**
- (B) $\frac{3}{2}$**
- (C) $\frac{2}{3}$**
- (D) $\frac{3}{4}$**

Q.10 A bag contains 20 blue marbles and 30 red marbles. What is the percentage of blue marbles?

- (A) 20%**
- (B) 30%**
- (C) 40%**
- (D) 50%**

Algebraic Expressions & Identities :

Select the suitable option :

Q.11 An algebraic expression that contains only one term is called:

- (A) Monomial**
- (B) Binomial**
- (C) Trinomial**
- (D) None of the above**

Q.12 $5x+6y$ is a:

- (A) Monomial**
- (B) Binomial**
- (C) Trinomial**
- (D) None of the above**

Q.13 The algebraic expression $3x+2y+6$ is a:

- (A) Monomial**
- (B) Binomial**
- (C) Trinomial**
- (D) None of the above**

Q.14 A polynomial contains _____ number of terms:

- (A) One**
- (B) Two**
- (C) Three**
- (D) Any**

Q.15 In which of the following, the two expressions are like terms?

- (A) $7x$ and $7y$**
- (B) $7x$ and $9x$**
- (C) $7x$ and $7x^3$**
- (D) $7x$ and $7xy$**

Q.16 If we add, $7xy + 5yz - 3zx$, $4yz + 9zx - 4y$ and $-3xz + 5x - 2xy$, then the answer is:

- (A) $5xy + 9yz + 3zx + 5x - 4y$
- (B) $5xy - 9yz + 3zx - 5x - 4y$
- (C) $5xy + 10yz + 3zx + 15x - 4y$
- (D) $5xy + 10yz + 3zx + 5x - 6y$

Q.17 If we subtract $4a - 7ab + 3b + 12$ from $12a - 9ab + 5b - 3$, then the answer is:

- (A) $8a + 2ab + 2b + 15$
- (B) $8a + 2ab + 2b - 15$
- (C) $8a - 2ab + 2b - 15$
- (D) $8a - 2ab - 2b - 15$

Q.18 The product of $4x$ and 0 is:

- (A) $4x$
- (B) 4
- (C) 0
- (D) None of the above

Q.19 The product of $5x$ and $3y$ is:

- (A) xy
- (B) $2xy$
- (C) $5xy$
- (D) $15xy$

Q.20 The area of a rectangle that has length $2a^2b$ and breadth $3ab^2$ is:

- (A) $6a^3b^3$
- (B) a^3b^3
- (C) $2a^3b^3$
- (D) $4a^3b^3$

Comparing Quantities :

Select the suitable option :

Q.21 The ratio of speed of cycle 12 km per hour to the speed of scooter 36 km per hour is

- (A) 1:2**
- (B) 1:3**
- (C) 1:4**
- (D) None of the above**

Q.22 The ratio of 10m to 10 km is:

- (A) 1/10**
- (B) 1/100**
- (C) 1/1000**
- (D) 1000**

Q.23 The percentage of 1:4 is:

- (A) 75%**
- (B) 50%**
- (C) 25%**
- (D) 100%**

Q.24 The percentage of 2:5

- (A) 20%**
- (B) 50%**
- (C) 60%**
- (D) 40%**

Q.25 If 50% of students are good at science out of 20 students. Then the number of students good at science is:

- (A) 10**
- (B) 15**
- (C) 5**
- (D) 11**

Q.26 The price of a motorcycle was Rs. 34,000 last year. It has increased by 20% this year. The price of motorcycle now is:

- (A)** Rs. 36,000
- (B)** Rs. 38,800
- (C)** Rs. 40,800
- (D)** Rs. 32,000

Q.27 An item marked at Rs. 840 is sold for Rs. 714. The discount % is:

- (A)** 10%
- (B)** 15%
- (C)** 20%
- (D)** 25%

Q.28 A person got a 10% increase in his salary. If his salary was Rs. 50000, then the new salary is:

- (A)** Rs. 55000
- (B)** Rs. 60000
- (C)** Rs. 45000
- (D)** Rs. 65000

Q.29 The cost of the article was Rs. 15500 and Rs. 500 was spent on its repairing. If it is sold for a profit of 15%. The selling price of the article is:

- (A)** Rs.16400
- (B)** Rs.17400
- (C)** Rs.18400
- (D)** Rs.19400

Q.30 Waheeda bought an air cooler for Rs. 3300 including a tax of 10%. The price of the air cooler before VAT was added is:

- (A)** Rs. 2000
- (B)** Rs. 3000
- (C)** Rs. 2500
- (D)** Rs. 2800

Mensuration :

Select the suitable option :

Q.31 Area of a triangle with base (b) and height (h) is:

- (A) $b.h$**
- (B) $\frac{1}{2} b.h$**
- (C) $2b.h$**
- (D) None of these**

Q.32 Area of the square with side-length 'a' is:

- (A) $2a$**
- (B) $4a$**
- (C) $a/2$**
- (D) a^2**

Q.33 The area of a parallelogram with base (b) and height (h) is:

- (A) $\frac{1}{2} b.h$**
- (B) $2b.h$**
- (C) $b.h$**
- (D) $(b+h)$**

Q.34 Area of a circle with radius 'r' is:

- (A) πr^2**
- (B) $\frac{1}{2} \pi r^2$**
- (C) $2\pi r^2$**
- (D) $4\pi r^2$**

Q.35 1 cm = _____ millimeters.

- (A) 10**
- (B) 100**
- (C) $1/10$**
- (D) $1/100$**

Q.36 Surface area of cube of edge 'a' is:

- (A) $4a^2$**
- (B) $6a^2$**
- (C) $3a^2$**
- (D) a^2**

Q.37 Volume of a cuboid of length l, breadth b and height h is:

- (A) lbh**
- (B) $lb + bh + hl$**
- (C) $2(lb + bh + hl)$**
- (D) $2(l + b)h$**

Q.38 Volume of a cylinder with base radius = r and height = h, is:

- (A) $2\pi rh$**
- (B) $\pi r^2 h$**
- (C) $2\pi r(r + h)$**
- (D) $\frac{1}{3}\pi r^2 h$**

Q.39 1 litre = _____ cubic centimeters.

- (A) 10 cu.cm**
- (B) 100 cu.cm**
- (C) 1000 cu.cm**
- (D) 10000 cu.cm**

Q.40 If the length and breadth of a rectangle are 15cm and 10cm, respectively, then its area is:

- (A) 100 sq.cm**
- (B) 150 sq.cm**
- (C) 115 sq.cm**
- (D) 200 sq.cm**

Probability :

Select the suitable option :

Q.41 The range of the data: 6,14,20,16,6,5,4,18,25,15, and 5 is:

- (A) 4**
- (B) 21**
- (C) 25**
- (D) 20**

Q.42 The class mark of the class 20-30 is:

- (A) 20**
- (B) 30**
- (C) 25**
- (D) 10**

Q.43 The difference between the highest and the lowest value of the observations in a data is called:

- (A) Mean**
- (B) Range**
- (C) Total frequency**
- (D) Sum of observation**

Q.44 In the interval 35-45, 45 is called:

- (A) Upper limit**
- (B) Lower limit**
- (C) Range**
- (D) Frequency**

Q.45 Which is the probability of an impossible event?

- (A) 0**
- (B) 1**
- (C) 2**
- (D) None of these**

Q.46 Which is the probability of a sure event?

- (A) 0**
- (B) 1**
- (C) 2**
- (D) None of these**

Q.47 A coin is tossed. Which is the probability of getting a head or tail?

- (A) 0**
- (B) 1**
- (C) $1/2$**
- (D) None of these**

Q.48 The number of times a particular observation occurs in a given data is called its:

- (A) frequency**
- (B) range**
- (C) mean**
- (D) None of these**

Q.49 In history which is represented by the heights of the rectangles?

- (A) Frequency**
- (B) Class interval**
- (C) Class size**
- (D) Range**

Q.50 Tally marks are used to find:

- (A) Frequency**
- (B) Lower limits**
- (C) Upper limits**
- (D) Class marks**

Answers :

1. (C), 2. (B), 3. (C), 4. (B), 5. (B), 6. (C), 7. (B), 8. (D),
9. (B), 10. (C), 11. (A), 12. (B), 13. (C), 14. (D), 15. (B),
16. (A), 17. (C), 18. (C), 19. (D), 20. (A), 21. (B), 22. (C),
23. (C), 24. (D), 25. (A), 26. (C), 27. (B), 28. (B),
29. (C), 30. (B), 31. (B), 32. (D), 33. (C), 34. (A),
35. (A), 36. (B), 37. (A), 38. (B), 39. (C), 40. (B),
41. (B), 42. (C), 43. (B), 44. (A), 45. (A), 46. (B),
47. (C), 48. (A), 49. (A), 50. (A)

Science :

Crop Production & Management :

Select the suitable option :

Q.1 The branch of science that deals with growing plants and raising livestock for human use is

- (A) agriculture**
- (B) horticulture**
- (C) pisciculture**
- (D) animal husbandry**

Q.2 Products obtained from the crops are called

- (A) yield**
- (B) produce**
- (C) crop**
- (D) fertilisers**

Q.3 The practice of growing two or more dissimilar crops in the same field one after another is

- (A) crop rotation**
- (B) tilling**
- (C) plantation**
- (D) weeding**

Q.4 The unwanted plants that grow along with the crops are called

- (A) fertilisers**
- (B) manure**
- (C) weeds**
- (D) kharif crops**

Q.5 The ideal months for harvesting kharif crop are

- (A) June/July**
- (B) August/September**
- (C) September/October**
- (D) November/December**

Q.6 Which is an example of rabi crop?

- (A) Potato**
- (B) Onion**
- (C) Pulses**
- (D) All of these**

Q.7 The method of loosening the soil is called :

- (A) harvesting**
- (B) ploughing**
- (C) levelling**
- (D) threshing**

Q.8 Levelling of soil helps to prevent :

- (A) soil erosion**
- (B) cultivation**
- (C) sowing**
- (D) drought**

Q.9 Which is not a kharif crop?

- (A) Paddy**
- (B) Maize**
- (C) Groundnut**
- (D) Peas**

Q.10 Which of are agricultural implements?

- (A) Seed drills**
- (B) Silos**
- (C) Harrow**
- (D) All of these**

Microorganisms :

Select the suitable option :

Q.11 Microorganisms that cause diseases are called:

- (A) Pathogens**
- (B) Antibodies**
- (C) Probiotics**
- (D) Algae**

Q.12 Which of the following is a fungus?

- (A) Amoeba**
- (B) Spirogyra**
- (C) Penicillium**
- (D) Paramecium**

Q.13 The process of conversion of sugar into alcohol is known as:

- (A) Nitrogen fixation**
- (B) Pasteurization**
- (C) Fermentation**
- (D) Sterilization**

Q.14 The medicine used to kill or stop the growth of disease-causing microorganisms is called:

- (A) Vaccine**
- (B) Antibiotic**
- (C) Antibody**
- (D) Antiseptic**

Q.15 Yeast is used in the production of:

- (A) Sugar**
- (B) Alcohol**
- (C) Hydrochloric acid**
- (D) Oxygen**

Q.16 The simplest group of organisms that contain chlorophyll are:

- (A) Bacteria**
- (B) Fungi**
- (C) Algae**
- (D) Protozoa**

Q.17 Which is not used as a food preservative?

- (A) Salt**
- (B) Sugar**
- (C) Methane**
- (D) Vinegar**

Q.18 Amoeba and Paramecium belong to the group:

- (A) Algae**
- (B) Fungi**
- (C) Protozoa**
- (D) Bacteria**

Q.19 Which reproduce only inside the cells of a host organism?

- (A) Bacteria**
- (B) Virus**
- (C) Mushroom**
- (D) Spirogyra**

Q.20 Mushroom belongs to the group of:

- (A) Algae**
- (B) Protozoa**
- (C) Fungi**
- (D) Bacteria**

Metals & Non-Metals :

Select the suitable option :

Q.21 Which is a non-renewable natural resource?

- (A) Air**
- (B) Sunlight**
- (C) Coal**
- (D) Water**

Q.22 The process of conversion of dead vegetation into coal is called:

- (A) Carbonization**
- (B) Distillation**
- (C) Refining**
- (D) Fossilization**

Q.23 Which substance is almost a pure form of carbon?

- (A) Coal tar**
- (B) Coke**
- (C) Coal gas**
- (D) Petrol**

Q.24 Coal tar is used in the manufacture of:

- (A) Synthetic dyes**
- (B) Drugs**
- (C) Explosives**
- (D) All of these**

Q.25 Petroleum is also known as:

- (A) Black gold**
- (B) Liquid silver**
- (C) Black diamond**
- (D) Fossil wax**

Q.26 Which is used for surfacing roads these days instead of coal tar?

- (A) Coke**
- (B) Bitumen**
- (C) Paraffin wax**
- (D) Diesel**

Q.27 The process of separating various constituents of petroleum is known as:

- (A) Carbonization**
- (B) Refining**
- (C) Fractionalization**
- (D) Cleaning**

Q.28 Natural gas is stored under high pressure as:

- (A) LPG**
- (B) CNG**
- (C) PNG**
- (D) LNG**

Q.29 Which gas is mainly present in LPG?

- (A) Methane**
- (B) Ethane**
- (C) Butane**
- (D) Hydrogen**

Q.30 Which is a fossil fuel?

- (A) Wood**
- (B) Coal**
- (C) Cow dung**
- (D) All of these**

Conservation of Plants & Animals :

Select the suitable option :

Q.31 The variety of organisms living on the earth is referred to as:

- (A) Ecosystem**
- (B) Biodiversity**
- (C) Biosphere**
- (D) Habitat**

Q.32 Species of plants and animals which are found exclusively in a particular area are called:

- (A) Exotic species**
- (B) Endangered species**
- (C) Endemic species**
- (D) Extinct species**

Q.33 The Red Data Book keeps a record of all the:

- (A) Endemic species**
- (B) Extinct species**
- (C) Endangered species**
- (D) Native species**

Q.34 Deforestation usually leads to:

- (A) Increase in rainfall**
- (B) Increase in groundwater level**
- (C) Increase in Earth's temperature**
- (D) Increase in soil fertility**

Q.35 The process of conversion of fertile land into deserts is known as:

- (A) Deforestation**
- (B) Desertification**
- (C) Erosion**
- (D) Conservation**

Q.36 Migratory birds fly to faraway places because of _____ changes.

- (A) Population**
- (B) Climatic**
- (C) Political**
- (D) Social**

Q.37 Restocking of the destroyed forests by planting new trees is called:

- (A) Deforestation**
- (B) Afforestation**
- (C) Reforestation**
- (D) Both (b) and (c)**

Q.38 Part of the earth in which living organisms exist is called:

- (A) Lithosphere**
- (B) Biosphere**
- (C) Atmosphere**
- (D) Hydrosphere**

Q.39 Project Tiger was launched by the government to:

- (A) Count the number of tigers**
- (B) Protect the tiger population in the country**
- (C) Tame tigers for zoos**
- (D) Export tiger skin**

Q.40 Which gas in the atmosphere causes global warming by trapping heat?

- (A) Oxygen**
- (B) Nitrogen**
- (C) Carbon dioxide**
- (D) Hydrogen**

Reproduction in Animals :

Select the suitable option :

Q.41 Animals that give birth to young ones are called:

- (A) Oviparous**
- (B) Viviparous**
- (C) Hermaphrodite**
- (D) None of these**

Q.42 The process of fusion of the male and female gametes is called:

- (A) Reproduction**
- (B) Fertilization**
- (C) Metamorphosis**
- (D) Budding**

Q.43 In humans, the site of fertilization is the:

- (A) Ovary**
- (B) Uterus**
- (C) Fallopian tube (Oviduct)**
- (D) Vagina**

Q.44 Which is an example of an oviparous animal?

- (A) Human**
- (B) Cow**
- (C) Hen**
- (D) Dog**

Q.45 External fertilization is common in:

- (A) Humans**
- (B) Birds**
- (C) Frogs and Fish**
- (D) Cats**

Q.46 The male gamete is called:

- (A) Egg**
- (B) Ovum**
- (C) Sperm**
- (D) Zygote**

Q.47 Budding is a method of reproduction found in:

- (A) Amoeba**
- (B) Hydra**
- (C) Bacteria**
- (D) Human beings**

Q.48 Binary fission is observed in:

- (A) Hydra**
- (B) Yeast**
- (C) Amoeba**
- (D) Starfish**

Q.49 The stage of the embryo in which all the body parts can be identified is called:

- (A) Zygote**
- (B) Foetus**
- (C) Egg**
- (D) Larva**

Q.50 Cloning of an animal was first successfully performed on a sheep named:

- (A) Molly**
- (B) Polly**
- (C) Dolly**
- (D) Holly**

Answers :

**1. (A), 2. (B), 3. (A), 4. (C), 5. (C), 6. (D), 7. (B), 8. (A),
9. (D), 10. (D), 11. (A), 12. (C), 13. (C), 14. (B), 15. (B),
16. (C), 17. (C), 18. (C), 19. (B), 20. (C), 21. (C), 22. (A),
23. (B), 24. (D), 25. (A), 26. (B), 27. (B), 28. (B),
29. (C), 30. (B), 31. (B), 32. (C), 33. (C), 34. (C),
35. (B), 36. (B), 37. (A), 38. (B), 39. (B), 40. (C),
41. (B), 42. (B), 43. (C), 44. (B), 45. (C), 46. (C),
47. (B), 48. (C), 49. (B), 50. (C)**

Force & Pressure :

Select the suitable option :

Q.1 What is force?

- (A) pull**
- (B) push**
- (C) push and pull both**
- (D) none of these**

Q.2 What is state of motion?

- (A) position of rest**
- (B) position of motion**
- (C) both by the state of rest or motion**
- (D) none of these**

Q.3 The strength of force is expressed by?

- (A) weight**
- (B) mass**
- (C) magnitude**
- (D) longitudinal force**

Q.4 The force between two charged bodies is called ____ .

- (A) muscular force**
- (B) gravitational force**
- (C) magnetic force**
- (D) electrostatic force**

Q.5 When two forces act in opposite directions, then net force acting

- (A) sum of two forces**
- (B) difference between two forces**
- (C) both of these**
- (D) none of these**

Q.6 Magnetic force is _____ .

- (A) contact force**
- (B) non-contact force**
- (C) both (A) and (B)**
- (D) none of these**

Q.7 Force acts on an object may change _____ .

- (A) direction**
- (B) shape**
- (C) speed**
- (D) all of above**

Q.8 Leaves or fruits fall on the ground due to _____ .

- (A) magnetic force**
- (B) gravitational force**
- (C) electrostatic force**
- (D) muscular force**

Q.9 The force exerted by our muscle is called ____ .

- (A) electrostatic force**
- (B) muscular force**
- (C) gravitational force**
- (D) non-contact force**

Q.10 1 kilogram weight is equal to _____ .

- (A) 98 N**
- (B) 9.8 N**
- (C) 0.98 N**
- (D) 0.098 N**

Friction :

Select the suitable option :

Q.11 Complete the sentence. Friction always _____ .

- (A) helps the motion**
- (B) opposes the motion**
- (C) both of these**
- (D) none of these**

Q.12 Which one of these characteristics does a smooth surface has?

- (A) Less frictional force**
- (B) More frictional force**
- (C) Sometimes less and sometimes more force**
- (D) All of above**

Q.13 Friction is a _____

- (A) Contact force**
- (B) Non-contact force**
- (C) Magnetic force**
- (D) None of these**

Q.14 What kind of substances are known as lubricants

- (A) Increase friction**
- (B) Decrease friction**
- (C) Increase or decrease friction**
- (D) None of these**

Q.15 Fluid are_____

- (A) Gases**
- (B) Liquids**
- (C) Gases and liquids both**
- (D) None of these**

Q.16 On what force of friction depends?

- (A) Smoothness of surface**
- (B) Roughness of surface**
- (C) Inclination of surface**
- (D) All of the above**

Q.17 Friction is a /an_____ .

- (A) Evil**
- (B) Foe**
- (C) Both (A) and (B)**
- (D) None of these**

Q.18 Lubricants _____ .

- (A) Increase friction**
- (B) Reduce friction**
- (C) Both (A) and (B)**
- (D) None**

Q.19 Rolling friction is smaller than?

- (A) Sliding friction**
- (B) Static friction**
- (C) Fluid friction**
- (D) All of the above**

Q.20 The shape of the airplane is like a

- (A) Bird**
- (B) Car**
- (C) Dog**
- (D) All of the above**

Sound :

Select the suitable option :

Q.21 Eardrum is a part of

- (A) Sound producing organ**
- (B) Skeletal system**
- (C) Hearing organ**
- (D) Reproductive organ**

Q.22 The hearing range of human ear is

- (A) 20 Hz to 20,000 Hz**
- (B) Less than 20 Hz**
- (C) More than 20,000 Hz**
- (D) 20 Hz to 25,000 Hz**

Q.23 The voice box is called:

- (A) Stomach**
- (B) Heart**
- (C) Larynx**
- (D) Mouth**

Q.24 Large amplitude of sound vibrations will produce:

- (A) Loud sound**
- (B) Meak sound**
- (C) Slow sound**
- (D) Shreak**

Q.25 The pitch of sound depends on

- (A) frequency**
- (B) amplitude**
- (C) both (A) and (B)**
- (D) none of these**

Q.26 Sound is kind of

- (A) Work**
- (B) Energy**
- (C) Force**
- (D) None of these**

Q.27 To an fro motion of an object is called

- (A) Waves**
- (B) Amplitude**
- (C) Vibration**
- (D) All of the above**

Q.28 Voice box or larynx of human process

- (A) Sound**
- (B) Wind**
- (C) Loudness**
- (D) None of these**

Q.29 Sound propagates maximum in

- (A) Gas**
- (B) Liquid**
- (C) Solid**
- (D) All of the above**

Q.30 Noise pollution is harmful for

- (A) Human**
- (B) Cat**
- (C) Bird**
- (D) All of the above**

Chemical Effects of Electric Current :

Select the suitable option :

Q.31 Which of the following is a bad conductor of electricity?

- (A) Distilled water**
- (B) Silver nitrate**
- (C) Sulphuric acid**
- (D) Copper sulphate**

Q.32 Which of the following does not conduct electricity?

- (A) Sugar solution**
- (B) Vinegar solution**
- (C) Lemon juice solution**
- (D) Caustic soda solution**

Q.33 An electric current can produce

- (A) heating effect**
- (B) chemical effect**
- (C) magnetic effect**
- (D) all of these**

Q.34 Pure or distilled water is a

- (A) poor conductor**
- (B) good conductor**
- (C) both (a) and (b)**
- (D) none of these**

Q.35 Which of the following is a good conductor?

- (A) Brick**
- (B) Steel**
- (C) Plastic**
- (D) Cotton**

Q.36 Polythene is

- (A) a conductor**
- (B) an insulator**
- (C) both (A) and (B)**
- (D) none of these**

Q.37 Electroplating is based on

- (A) heating effect of electricity**
- (B) chemical effect of electricity**
- (C) physical effect of electricity**
- (D) magnetic effect of electricity**

Q.38 Copper is
(A) a good conductor
(B) an insulator
(C) both (A) and (B)
(D) none of these

Q.39 An electrolyte is
(A) a metal
(B) a liquid that conducts current
(C) a non-metal
(D) none of these

Q.40 Flow of electron is called
(A) electrolyte
(B) electroplating
(C) electrodes
(D) electric current

Light :

Select the suitable option :

Q.41 We are able to see an object due to the presence of
(A) light
(B) dark
(C) refraction
(D) object

Q.42 The bouncing back of light into the same medium is called

- (A) refraction**
- (B) reflection**
- (C) dispersion**
- (D) diffraction**

Q.43 A mirror has _____ surface.

- (A) rough**
- (B) polished**
- (C) dark**
- (D) all of these**

Q.44 Maximum part of light is reflected by

- (a) opaque object**
- (B) translucent object**
- (C) transparent object**
- (D) all of these**

Q.45 Beam of light striking the reflecting surface is called:

- (A) reflected ray**
- (B) incident ray**
- (C) refracted ray**
- (D) normal ray**

Q.46 The back side of a plane mirror contains:

- (A) gold coating**
- (B) silver coating**
- (C) aluminium coating**
- (D) copper coating**

Q.47 The perpendicular drawn to the reflecting surface is called

- (A) normal**
- (B) incident ray**
- (C) reflected ray**
- (D) none of these**

Q.48 There are _____ laws of reflection.

- (A) one**
- (B) two**
- (C) three**
- (D) four**

Q.49 The angle of incidence is always _____ to the angle of reflection.

- (A) greater**
- (B) smaller**
- (C) equal**
- (D) none of these**

Q.50 The angle between the reflected ray and the normal is called

- (A) angle of incidence**
- (B) reflected ray**
- (C) angle of reflection**
- (D) point of incidence**

Answers :

1. (C), 2. (C), 3. (C), 4. (D), 5. (B), 6. (B), 7. (D), 8. (B),
9. (B), 10. (B), 11. (B), 12. (A), 13. (A), 14. (D), 15. (C),
16. (D), 17. (A), 18. (B), 19. (A), 20. (A), 21. (C), 22. (A),
23. (C), 24. (A), 25. (C), 26. (B), 27. (C), 28. (A),
29. (C), 30. (D), 31. (A), 32. (A), 33. (D), 34. (A),
35. (B), 36. (B), 37. (B), 38. (A), 39. (B), 40. (D),
41. (A), 42. (B), 43. (B), 44. (A), 45. (B), 46. (B),
47. (A), 48. (B), 49. (C), 50. (C)

General Knowledge :

Awards & Honors :

Select the suitable option :

Q.1 Kenton Cool and Kami Rita who were seen in the news, are associated with which field?

- [A] Business**
- [B] Literature**
- [C] Mountaineering**
- [D] Technology**

Q.2 Who was selected for the 'Dr. V Shantaram Lifetime Achievement Award' in the Mumbai International Film Festival 2022?

- [A] Hemamalini**
- [B] Asha Parekh**
- [C] Sanjit Narwekar**
- [D] Gulzar**

Q.3 Shinde Sambhaji Shiwaji, Ujjal Bhuyan, Amjad Ahtesham Sayed, who were seen in the news recently, are associated with which profession?

- [A] Scientists**
- [B] Judges**
- [C] Politicians**
- [D] Bureaucrats**

Q.4 Which institution has won UNESCO's recognition for use of Information And Communication Technology in Education?

- [A] Central Institute of Educational Technology**
- [B] Central Board of Secondary Education**
- [C] University Grants Commission**
- [D] All India Council for Technical Education**

Q.5 Who has been appointed as the Chairperson of the Press Council of India?

- [A] Justice Ranjana Prakash Desai**
- [B] Justice Ajay Kumar Sikri**
- [C] Justice Sadasivan**
- [D] Justice Y Chandrachud**

Q.6 Which is the most valuable Global Brand from India, as per the Kantar Brandz report?

- [A] LIC**
- [B] HDFC Bank**
- [C] Reliance**
- [D] Mahindra**

Q.7 As per 'Hurun India Future Unicorn Index 2022', which city is the start-up capital of India?

- [A] New Delhi**
- [B] Mumbai**
- [C] Bengaluru**
- [D] Hyderabad**

Q.8 Japan Government has awarded 'Supreme Order of the Chrysanthemum' to which personality?

- [A] Narendra Modi**
- [B] Shinzo Abe**
- [C] Ramnath Govind**
- [D] Joe Biden**

Q.9 Enamul Haque, who recently passed away recently, was associated with which profession?

- [A] Business person**
- [B] Archaeologist**
- [C] Sports person**
- [D] Politician**

Q.10 Monty Norman, who recently passed away, was associated with which field?

- [A] Music**
- [B] Politics**
- [C] Sports**
- [D] Business**

Indian Language :

Select the suitable option :

Q.11 How many languages and dialects are spoken by people all over the world?

- (A) 4500**
- (B) 9300**
- (C) 6200**
- (D) 7100**

Q.12 Which language is not spoken in Sikkim?

- (A) Punjabi**
- (B) Bhutia**
- (C) Lepcha**
- (D) None of these**

Q.13 English Language have more than _____ words

- (A) Thousand**
- (B) Lakh**
- (C) Ten lakhs**
- (D) None of these**

Q.14 Sanskrit is first official language of _____.

- (A) Himachal Pradesh**
- (B) Uttarakhand**
- (C) Karnataka**
- (D) Madhya Pradesh**

Q.15 LIPI/Script of Hindi Language is _____ .

- (A) Devanagari**
- (B) Gurumukhi**
- (C) Urdu**
- (D) Sanskrit**

Q.16 Approximately, how many people speak Chinese language?

- (A) 1 million**
- (B) 1 billion**
- (C) 1 thousand**
- (D) 1 lakh**

Q.17 In which language vande matram was written?

- (A) Bengali**
- (B) Hindi**
- (C) Marathi**
- (D) Sanskrit**

Q.18 The language with the richest vocabulary is :

- (A) English**
- (B) Tamil**
- (C) Hindi**
- (D) German**

Q.19 Angami is a language of _____ .

- (A) Nagaland**
- (B) West Bengal**
- (C) Goa**
- (D) Assam**

Q.20 _____ is the language that is widely spoken in West Bengal.

- (A) English**
- (B) Mizo**
- (C) Gujarati**
- (D) Bengali**

Books & Authors :

Select the suitable option :

Q.21 Who is the author of the book “India After Gandhi The History of the World’s Largest Democracy”?

- (A) Madhav Gandhi**
- (B) Ramachandra Guha**
- (C) Romila Thapar**
- (D) Sujit Mukherjee**

Q.22 Which one of the below is not a novel written by R.K Narayan?

- (A) Such a long journey**
- (B) Swami and friends**
- (C) The Bachelor of arts**
- (D) The English teacher**

Q.23 Who is the author of the novel “2 states: The story of my marriage”?

- (A) Chetan Bhagat**
- (B) Ravindra Singh**
- (C) Sudeep Nagarkar**
- (D) None of these**

Q.24 Which is the autobiography of A.P.J. Abdul Kalam?

- (A) My truth**
- (B) Wings of fire**
- (C) The story of my life**
- (D) None of these**

Q.25 Who is the author of the novel “The Serpent and the Rope”?

- (A) Raja Rao**
- (B) Arundhati Roy**
- (C) Anita Desai**
- (D) Vikram Singh**

Q.26 Which is the First novel written by Ruskin Bond?

- (A) Angry River**
- (B) Delhi is not Far**
- (C) The Room on the Roof**
- (D) The blue umbrella**

Q.27 Who is the author of the novel “A Bend in the Ganges”?

- (A) Manohar Malgonkar**
- (B) Amitav Ghosh**
- (C) Salman Rushdie**
- (D) None of these**

Q.28 Who is the author of the novel “Train to Pakistan”?

- (A) Manohar Malgonkar**
- (B) Salman Rushdie**
- (C) Khushwant Singh**
- (D) Amrita Pritam**

Q.29 Who is the author of the novel “Em and the Big Hoom”?

- (A) Keshava Guha**
- (B) Jerry Pinto**
- (C) Manu Joseph**
- (D) None of these**

Q.30 Which book was written by Kalhana?

- (A) Harshacharita**
- (B) Arthashastra**
- (C) Indika**
- (D) Rajatarangini**

Indian Constitution :

Select the suitable option :

Q.31 Which among the following is an example of the unitary system of government?

- (A) Belgium**
- (B) Sri Lanka**
- (C) Both Sri Lanka and Belgium**
- (D) None of the above**

Q.32 How many of the world’s 193 countries have federal political systems?

- (A) 25**
- (B) 100**
- (C) 145**
- (D) 70**

Q.33 _____ made the shift from a unitary to a federal system of government.

- (A) Sri Lanka**
- (B) Belgium**
- (C) Both Belgium and Sri Lanka**
- (D) None of the above**

Q.34 Which of the following does not have a federal system of government?

- (A) India**
- (B) USA**
- (C) Russia**
- (D) None of the above**

Q.35 Which does not have a federal political system?

- (A) China**
- (B) New Zealand**
- (C) Japan**
- (D) All of the above**

Q.36 Which of the following is an example of 'coming together' federations?

- (A) Spain**
- (B) Belgium**
- (C) USA**
- (D) All the above.**

Q.37 Which is included in the Union List?

- (A) Banking**
- (B) Foreign Affairs**
- (C) Defence of the country**
- (D) All of the above**

Q.38 Which of the following subjects are included in the State List?

- (A) Agriculture**
- (B) Irrigation**
- (C) Police**
- (D) All of the above**

Q.39 If there is a conflict in the laws made for the subjects in the Concurrent List, then the decision made by _____ will prevail.

- (A) State Government**
- (B) Union Government**
- (C) President**
- (D) All of the above**

Q.40 Which of the following states in India enjoys a special status?

- (A) Arunachal Pradesh**
- (B) Mizoram**
- (C) Nagaland**
- (D) All of the above**

Indian Economy :

Select the suitable option :

Q.41 Agriculture, dairy, fishing, and forestry are examples of _____.

- (A) tertiary Sector**
- (B) secondary Sector**
- (C) primary Sector**
- (D) None of the above**

Q.42 _____ shows how big the economy of a country is.

- (A) GSDP**
- (B) GDP**
- (C) PPP**
- (D) None of the above**

Q.43 In India, _____ was the least producing sector in 2010-11.

- (A) primary sector**
- (B) secondary sector**
- (C) tertiary sector**
- (D) quaternary sector**

Q.44 In India, which sector grew the maximum from 1970-71 to 2010-11?

- (A) primary sector**
- (B) secondary sector**
- (C) tertiary sector**
- (D) quaternary sector**

Q.45 Workers in _____ sector are under-employed.

- (A) IT**
- (B) agricultural**
- (C) manufacturing**
- (D) none of the above**

Q.46 More than half of the workers in the country are working in the primary sector, mainly in _____.

- (A) fishing**
- (B) mining**
- (C) agriculture**
- (D) none of the above**

Q.47 The National Rural Employment Guarantee Act was passed by the Government of India in _____.

- (A) 2005**
- (B) 2010**
- (C) 2004**
- (D) 2014**

Q.48 Under NREGA 2005, all those who are able to and are in need of work are guaranteed _____ of employment in a year by the government.

- (A) 180 days**
- (B) 50 days**
- (C) 200 days**
- (D) 100 days**

Q.49 In 1970-71, which sector produced the maximum in India?

- (A) tertiary sector**
- (B) secondary sector**
- (C) primary sector**
- (D) quaternary sector**

Q.50 The _____ continues to be the largest employer in India.

- (A) quaternary sector**
- (B) tertiary sector**
- (C) secondary sector**
- (D) primary sector**

Answers :

1. (C), 2. (C), 3. (B), 4. (A), 5. (A), 6. (B), 7. (C), 8. (B), 9. (B), 10. (A), 11. (D), 12. (A), 13. (C), 14. (B), 15. (A), 16. (B), 17. (D), 18. (A), 19. (A), 20. (D), 21. (B), 22. (A), 23. (A), 24. (B), 25. (A), 26. (C), 27. (A), 28. (C), 29. (B), 30. (D), 31. (B), 32. (A), 33. (B), 34. (D), 35. (A), 36. (C), 37. (D), 38. (D), 39. (B), 40. (D), 41. (C), 42. (B), 43. (A), 44. (C), 45. (B), 46. (C), 47. (A), 48. (D), 49. (C), 50. (D)

Sports :

Select the suitable option :

Q.1 For which of the following sports Maulana Abul Kalam Azad (MAKA) Trophy' is given ?

- [A] Inter school**
- [B] Inter state**
- [C] Inter university**
- [D] None of the above**

Q.2 Which among the following tournament is also known as World Team Championships for Women?

- [A] Thomas Cup**
- [B] Uber cup**
- [C] Helvetia Cup**
- [D] Spanish Open Badminton**

Q.3 Which was the first brand, Sachin Tendulkar endorsed in the beginning of his career?

- [A] Boost**
- [B] Pepsi**
- [C] Nike**
- [D] None of them**

Q.4 Who was the first marketing director of the International Olympic Committee?

- [A] Michael Payne**
- [B] Juan Antonio**
- [C] Richard Pound**
- [D] Avery Brundage**

Q.5 Who is the top scorer in Indian National Football Team?

- [A] Sunil Chhetri**
- [B] Gurpreet Singh Sandhu**
- [C] Nishu Kumar**
- [D] Udanta Singh**

Q.6 How many teams currently participate in the Commonwealth Games 22?

- [A] 53**
- [B] 62**
- [C] 72**
- [D] 64**

Q.7 The Olympics Games are normally held every how many years?

- [A] 2 Years**
- [B] 4 Years**
- [C] 6 Years**
- [D] 8 Years**

Q.8 In which year, the first Summer Olympic Games was conducted?

- [A] 1892**
- [B] 1894**
- [C] 1896**
- [D] 1898**

Q.9 Which Olympic Games is also known as the “Millenium Olympic Games”?

- [A] 1996 Summer Olympics, Atlanta**
- [B] 2000 Summer Olympics, Sydney**
- [C] 2004 Summer Olympics, Athens**
- [D] 2008 Summer Olympics, Beijing**

Q.10 Which country hosted the 2018 Commonwealth Games?

- [A] New Zealand**
- [B] Ireland**
- [C] Canada**
- [D] Australia**

Cities & Rivers :

Select the suitable option :

Q.11 Madurai is located on the bank of which river?

- [A] Tunga**
- [B] Jhelum**
- [C] Krishna**
- [D] Vaigai**

Q.12 Rajahmundry is located on the bank of.....

- [A] Krishna**
- [B] Godavari**
- [C] Ganga**
- [D] Nagavali**

Q.13 Agra is located on the bank of which river?

- [A] Yamuna**
- [B] Sabarmati**
- [C] Tapi**
- [D] Ganga**

Q.14 Bareilly is located on the bank of which river?

- [A] Ganga**
- [B] Ramganga**
- [C] Yamuna**
- [D] Kali**

Q.15 Jaunpur is located on the bank of which river?

- [A] Manair**
- [B] Sarayu**
- [C] Gomti**
- [D] Narmada**

Q.16 Rourkela is located on the bank of which river?

- [A] Jhelum**
- [B] Chambal**
- [C] Gomti**
- [D] Brahmani**

Q.17 Srinagar is located on the bank of which river?

[A] Chinab

[B] Sutlej

[C] Jhelum

[D] Purna

Q.18 Delhi is located on the bank of which river?

[A] Yamuna

[B] Pennar

[C] Ganga

[D] Chambal

Q.19 Panji is located on the bank of which river?

[A] Haindavi

[B] Kali

[C] Tapi

[D] Mandovi

Q.20 Amaravati is located on the bank of

[A] Cauveri

[B] Krishna

[C] Ganga

[D] Ram Ganga

Leading Producers :

Select the suitable option :

Q.21 Which of the following is not a top Cotton growing state in India?

- [A] Gujarat**
- [B] Maharashtra**
- [C] Andhra Pradesh**
- [D] Bihar**

Q.22 Which one below is an example of the overlapping crop?

- [A] Tobacco**
- [B] Wheat**
- [C] Millets**
- [D] Sugarcane**

Q.23 Heavy retentive soil is favorable for which type of crop?

- [A] Sugarcane and Rice**
- [B] Maize**
- [C] Gram and fodder crops**
- [D] Cotton**

Q.24 What is the crop ratio of Kharif to rabi crops?

- [A] 1:2**
- [B] 1:4**
- [C] 1:3**
- [D] 2:1**

Q.25 Which one the following combination is incorrect?

- [A] Kharif crops – Rice, maize**
- [B] Rabi crops – Wheat, mustard**
- [C] Zaid crops – cotton, sugarcane**
- [D] Cash crops – jute, tobacco**

Q.26 Who is the ‘Father of Indian Green Revolution’?

- [A] Dr. William Gaude**
- [B] Dr. M.S Swaminathan**
- [C] Norman Borlaug**
- [D] Dr. Varghese Kurien**

Q.27 Which Indian state is Worlds first organic state?

- [A] Punjab**
- [B] Assam**
- [C] Arunachal Pradesh**
- [D] Sikkim**

Q.28 Which state leads to the consumption of fertilizers?

- [A] Punjab**
- [B] Haryana**
- [C] Andhra Pradesh**
- [D] Uttar Pradesh**

Q.29 In crop-rotation, a cash crop may be followed by a fodder crop, which is then followed by soil renovating crop like _____

- [A] Rice**
- [B] Maize**
- [C] Oats**
- [D] Grams and pulses**

Q.30 What are the climatic conditions required for growing rice?

- [A] Fertile clay soil, 70-200 cm rainfall, temperature 20°C-27°C**
- [B] Fertile soil, 50-75 cm rainfall, temperature 20°C-25°C**
- [C] Nitrogen-rich soil, 50-80 cm rainfall, temperature 25°C-30°C**
- [D] Sulfur-rich soil, 150-200 cm rainfall, temperature 15°C-20°C**

Headquarters :

Select the suitable option :

Q.31 Which one of the following organisations is directly related to child welfare?

- [A] UNICEF**
- [B] WTO**
- [C] WHO**
- [D] UNESCO**

Q.32 Which is not a member of the Organization of the Petroleum Exporting Countries (OPEC)?

- [A] Nigeria**
- [B] Brazil**
- [C] Algeria**
- [D] Ecuador**

Q.33 The Indian Red Cross Society was established in the year _____ .

- [A] 1932**
- [B] 1890**
- [C] 1945**
- [D] 1920**

Q.34 Which is not an agency of U.N.?

- [A] World Trade Organisation**
- [B] Food and Agricultural Organisation**
- [C] International Monetary Fund**
- [D] International Committee of the Red Cross**

Q.35 ADB headquarters located in which city?

- [A] Mandaluyong**
- [B] Paris**
- [C] London**
- [D] New York**

Q.36 Which institution is known as 'soft loan window' of the World Bank?

- [A] International Finance Corporation**
- [B] Indian Development Forum**
- [C] International Monetary Fund**
- [D] International Development Association**

Q.37 The main function of the World Trade Organisation (WTO) is:

- [A] Administering trade dispute settlement procedures**
- [B] Enforcing of Uruguay Round Agreements**
- [C] Facilitating multi-lateral trade relations of member countries and reviewing trade policies**
- [D] None of the above**

Q.38 When was SAARC founded?

- [A] 1982**
- [B] 1984**
- [C] 1985**
- [D] 1983**

Q.39 The headquarters of UNESCO is located at:

- [A] Geneva**
- [B] Paris**
- [C] New York**
- [D] Bangkok**

Q.40 The International Criminal Police Organisation (INTERPOL) has its headquarters at

- [A] Bonn**
- [B] London**
- [C] Montreal**
- [D] Lyon**

Festivals & Fairs :

Select the suitable option :

Q.41 The International Kite Festival in Gujarat is held in the month of -

- [A] November**
- [B] January**
- [C] August**
- [D] March**

Q.42 In which State is the Madhavpur Mela held annually?

- [A] Gujarat**
- [B] Chhattisgarh**
- [C] Haryana**
- [D] Rajasthan**

Q.43 Jallikattu is bull taming event held mainly in -

- [A] Tamil Nadu**
- [B] Karnataka**
- [C] Goa**
- [D] Telangana**

Q.44 In which country is the Salzburg Festival held every year?

- [A] Austria**
- [B] France**
- [C] Bangladesh**
- [D] Switzerland**

Q.45 Which one of the following festivals is not celebrated almost simultaneously in the month of January each year?

- [A] Gudi Padwa**
- [B] Lohri**
- [C] Pongal**
- [D] Makar Sankranti**

Q.46 Which city is famous for Bali Jatra festival?

- [A] Patna**
- [B] Raipur**
- [C] Cuttack**
- [D] Ranchi**

Q.47 The Jewish festival of lights is :

- [A] Nikkahanu**
- [B] Hanuhakk**
- [C] Hakukkah**
- [D] Hanukkah**

Q.48 The Festival of Naag Panchami comes in

- [A] May - Jun**
- [B] Sep - Oct**
- [C] Jan -Feb**
- [D] Jul - Aug**

Q.49 In 1893 he started using the traditional religious Ganapati festival to stimulate nationalism among young Maharashtrains?. This passage refers to :

- [A] Bal Gangadhar Tilak**
- [B] V.D. Savarkar**
- [C] Vishnu Shastri Chiplunkar**
- [D] Gopal Krishna Gokhale**

Q.50 At Puhar or Kaveripumpattinam, a great festival described vividly by the Sandam Epics, was held in honour of Lord :

- [A] Murugan**
- [B] Venkateshwara**
- [C] Indra**
- [D] Svamimalai**

Answers :

**1. (C), 2. (B), 3. (A), 4. (A), 5. (A), 6. (C), 7. (B), 8. (C),
9. (B), 10. (D), 11. (D), 12. (B), 13. (A), 14. (B), 15. (C),
16. (D), 17. (C), 18. (A), 19. (D), 20. (B), 21. (D),
22. (D), 23. (A), 24. (A), 25. (C), 26. (B), 27. (D),
28. (A), 29. (D), 30. (A), 31. (A), 32. (B), 33. (D),
34. (A), 35. (A), 36. (D), 37. (C), 38. (C), 39. (B),
40. (D), 41. (B), 42. (A), 43. (A), 44. (A), 45. (A),
46. (C), 47. (D), 48. (D), 49. (A), 50. (C)**

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