

KAUN BANEGA CHAMPION E-BOOK



BY
KBC FOUNDATION

CLASS 9



SESSION 2026-27

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Modals :

Select the suitable modal.

Q.1 When Juan was two, he _____ already speak very well.

- (A) might**
- (B) could**
- (C) can**
- (D) should**

Q.2 She _____ visit her grandparents' house during holidays.

- (A) dare to**
- (B) ought to**
- (C) can**
- (D) might**

Q.3 _____ I talk to the manager?

- (A) Might**
- (B) May**
- (C) Could**
- (D) Shall**

Q.4 During peak hours, it _____ take more than two hours

- (A) can**
- (B) should**
- (C) shall**
- (D) will**

Q.5 There has been a landslide. You _____ be careful while driving there.

- (A) can**
- (B) must**
- (C) could**
- (D) would**

Q.6 I _____ have won the tournament.

- (A) need to**
- (B) will**
- (C) could**
- (D) dare to**

Q.7 You _____ speak in the library.

- (A) must not**
- (B) dare not**
- (C) need not**
- (D) could not**

**Q.8 “We _____ definitely look into the matter”,
the officer affirmed.**

- (A) need to**
- (B) would**
- (C) will**
- (D) dare to**

Q.9 It’s time we _____ leave.

- (A) might**
- (B) should**
- (C) might have**
- (D) could have**

**Q.10 We are _____ wait in the lobby until the
receptionist calls again.**

- (A) supposed to**
- (B) used to**
- (C) obliged to**
- (D) able to**

Prepositions:

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 We shall finish this work _____ 5 p.m. today.

- (A) In**
- (B) By**
- (C) On**
- (D) at**

Q.17 Send me letters _____ this address.

- (A) By**
- (B) In**
- (C) To**
- (D) On**

Q.18 You should listen _____ what your parents say.

- (A) Among**
- (B) In**
- (C) To**
- (D) Between**

Q.19 Sita writes _____ ink.

- (A) With**
- (B) On**
- (C) In**
- (D) At**

Q.20 He did not listen _____ my advice.

- (A) At**
- (B) To**
- (C) In**
- (D) On**

Tenses :

Select the suitable option with the help of tenses

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**

Subject Verb concord :
Select the suitable option

Q.31 The farmers _____ ploughing their field.

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

Q.32 One of the students _____ talking.

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

Q.33 The jury _____ divided in their opinion.

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

Q.34 There _____ many exceptions to this rule.

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

Q.35 The boys _____ gone to school.

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

Q.36 He _____ this scenery.

- (A) likes**
- (B) liking**
- (C) like**
- (D) is liking**

Q.37 Honesty _____ the best policy.

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

Q.38 The aims of the course ____ me willing to begin.

- (A) makes**
- (B) make**
- (C) were made**
- (D) making**

Q.39 The weight of the mangoes _____ .

- (A) vary**
- (B) might have varied**
- (C) varies**
- (D) were varied**

Q.40 Do you know the person _____ next to window?

- (A) stands**
- (B) standing**
- (C) stood**
- (D) is standing**

Clauses :

Complete the following conversation with appropriate clauses:

The reporter interviewed the child who had won the National Gallantry Award. The reporter said to Varun, “Do you think that (Q.41)?” “Varun replied. “Yes, life is very uncertain especially when (Q.42)” “The reporter, “Varun, did you know the child whom (Q.43)?” “Varun, “(Q.44) I had neither met nor seen the child before.” The reporter wanted to know, “Do you think that (Q.45)?” “Yes, such acts should be honoured”, said Varun.

Q.41

- (A) life is boring**
- (B) life is interesting**
- (C) life is uncertain**
- (D) life is short**

Q.42

- (A) you are all alone**
- (B) you are unhappy**
- (C) you are weak**
- (D) you are sick**

Q.43

- (A) you saves**
- (B) you saved**
- (C) you will save**
- (D) you were to save**

Q.44

- (A) I frankly say that**
- (B) I do not say**
- (C) I can easily say**
- (D) I admit**

Q.45

- (A) such acts is honoured**
- (B) such acts should be honoured**
- (C) such acts will be honoured**
- (D) such acts honourable**

Complete the dialogue with the correct clauses given at the end:

Swati: Listen! Listen! Listen!

Pragya: What is the thing (Q.46)?

Swati: Our house has bagged the first prize in the competition (Q.47)

Pragya: (Q.48)it is the occasion for celebration.

Swati: Any suggestion (Q.49)?

Pragya: I propose that (Q.50)

Q.46

- (A) that makes you unhappy**
- (B) that makes you sad**
- (C) that makes you ecstatic**
- (D) that annoys you**

Q.47

- (A) that was held yesterday `**
- (B) that was held tomorrow**
- (C) that we lost yesterday**
- (D) that will be held tomorrow**

Q.48

- (A) If not true**
- (B) If it is true**
- (C) If you enjoyed**
- (D) If that will be true**

Q.49

- (A) that would be expensive**
- (B) that would be practical**
- (C) that we can ignore**
- (D) that we like**

Q.50

- (A) we should not go outside**
- (B) we should see a movie**
- (C) we should better remain at home**
- (D) we saw a movie**

Answers :

- 1. (B), 2. (D), 3. (B), 4. (A), 5. (B), 6. (C), 7. (A), 8. (C), 9. (B), 10. (A), 11. (C), 12. (B), 13. (B), 14. (D), 15. (C), 16. (B), 17. (C), 18. (C), 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. (B), 32. (B), 33. (A), 34. (C), 35. (B), 36. (A), 37. (C), 38. (B), 39. (C), 40. (B), 41. (C), 42. (A), 43. (B), 44. (A), 45. (B), 46. (C), 47. (A), 48. (B), 49. (B), 50. (B)**

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**

Determiners :

Select the suitable determiner ;

Q.21 _____ of the people who came have left.

- (A) Most**
- (B) Many**
- (C) Every**
- (D) Each**

Q.22 We need to do _____ of work before the event starts.

- (A) much**
- (B) a lot**
- (C) more**
- (D) some**

Q23. There are _____ messages for you.

- (A) none**
- (B) no**
- (C) much**
- (D) little**

Q24. _____ people who migrated here died in the floods.

- (A) A few**
- (B) Few**
- (C) The few**
- (D) Many**

Q.25 Not _____ is known about these legends.

- (A) little**
- (B) all**
- (C) many**
- (D) much**

Q.26 There is not _____ space for others here.

- (A) some**
- (B) enough**
- (C) many**
- (D) little**

Q.27 Is there _____ at the door?

- (A) nobody**
- (B) somebody**
- (C) someone**
- (D) everybody**

Q.28 _____ Shatabdi express will arrive at eight o'clock.

- (A) A**
- (B) Any**
- (C) Some**
- (D) The**

Q.29 It is _____ heirloom of the family.

- (A) a**
- (B) an**
- (C) some**
- (D) none**

Q.30 He will be there in _____ hour.

- (A) the**
- (B) an**
- (C) a**
- (D) two**

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. (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. (A), 22. (B),
23. (B), 24. (A), 25. (D), 26. (B), 27. (C), 28. (D),
29. (B), 30. (B), 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)**

Mathematics :

Number System :

Select the suitable option :

Q.1 Can we write 0 in the form of p/q ?

- (A) Yes**
- (B) No**
- (C) Cannot be explained**
- (D) None of the above**

Q.2 The three rational numbers between 3 and 4 are:

- (A) $5/2$, $6/2$, $7/2$**
- (B) $13/4$, $14/4$, $15/4$**
- (C) $12/7$, $13/7$, $14/7$**
- (D) $11/4$, $12/4$, $13/4$**

Q.3 In between any two numbers, there are:

- (A) Only one rational number**
- (B) Two rational numbers**
- (C) Infinite rational numbers**
- (D) No rational number**

Q.4 Every rational number is:

- (A) Whole number**
- (B) Natural number**
- (D) Integer**
- (D) Real number**

Q.5 $\sqrt{9}$ is _____ number.

- (A) A rational**
- (B) An irrational**
- (C) Neither rational nor irrational**
- (D) None of the above**

Q.6 Which is an irrational number?

- (A) $\sqrt{16}$**
- (B) $\sqrt{(12/3)}$**
- (C) $\sqrt{12}$**
- (D) $\sqrt{100}$**

Q.7 $3\sqrt{6} + 4\sqrt{6}$ is equal to:

- (A) $6\sqrt{6}$**
- (B) $7\sqrt{6}$**
- (C) $4\sqrt{12}$**
- (D) $7\sqrt{12}$**

Q.8 $\sqrt{6} \times \sqrt{27}$ is equal to:

- (A) $9\sqrt{2}$**
- (B) $3\sqrt{3}$**
- (C) $2\sqrt{2}$**
- (D) $9\sqrt{3}$**

Q.9 Which is rational number?

- (A) $4/0$**
- (B) $0/4$**
- (C) $\sqrt{3}$**
- (D) π (Pie)**

Q.10 The irrational number between 2 and 2.5 is :

- (A) $\sqrt{11}$**
- (B) $\sqrt{5}$**
- (C) $\sqrt{22.5}$**
- (D) $\sqrt{12.5}$**

Polynomials :

Select the suitable option :

Q.11 A polynomial with one degree is called:

- (A) Linear polynomial**
- (B) Quadratic polynomial**
- (C) Monomial**
- (D) Binomial**

Q.12 $\sqrt{3}$ is a polynomial of degree:

- (A) 2**
- (B) 0**
- (C) 1**
- (D) $1/2$**

Q.13 What is the degree of a zero polynomial?

- (A) 0**
- (B) 1**
- (C) Any natural number**
- (D) Not defined**

Q.14 The zero of the polynomial $p(x) = -9x + 9$ is :

- (A) 0**
- (B) -9**
- (C) -1**
- (D) 1**

Q.15 $\sqrt{12} \times \sqrt{15}$ is equal to:

- (A) $5\sqrt{6}$**
- (B) $6\sqrt{5}$**
- (c) $10\sqrt{5}$**
- (D) $\sqrt{25}$**

Q.16 If $x + 1$ is a factor of the polynomial $2x^2 + kx$, then the value of k is:

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

Q.17 The value of $(99)^2 - (98)^2$ is:

- (A) 1**
- (B) 197**
- (C) 187**
- (D) 207**

Q.18 The factorization of $6x^2 + 11x + 3$ is:

- (A) $(3x + 1)(2x + 3)$**
- (B) $(x + 1)(2x + 3)$**
- (C) $(x + 3)(2x + 1)$**
- (D) $(3x + 3)(x + 1)$**

Q.19 The polynomial which has only one term is called

- (A) Monic polynomial**
- (B) Quadratic polynomial**
- (C) Linear polynomial**
- (D) Monomial**

Q.20 Polynomial is the algebraic equation in the form of _____ variable

- (A) Two**
- (B) Three**
- (C) Many**
- (D) Single**

Coordinate Geometry :

Select the suitable option ;

Q.21 The name of the horizontal line in the cartesian plane which determines the position of a point is called:

- (A) Origin**
- (B) X-axis**
- (C) Y-axis**
- (D) Quadrants**

Q.22 The name of the vertical line in the cartesian plane which determines the position of a point is called:

- (A) Origin**
- (B) X-axis**
- (C) Y-axis**
- (D) Quadrants**

Q.23 The section formed by horizontal and vertical lines determining the position of the point in a cartesian plane is called:

- (A) Origin**
- (B) X-axis**
- (C) Y-axis**
- (D) Quadrants**

Q.24 The point of intersection of horizontal and vertical lines determining the position of a point in a cartesian plane is called:

- (A) Origin**
- (B) X-axis**
- (C) Y-axis**
- (D) Quadrants**

Q.25 If the coordinates of a point are $(0, -4)$, then it lies in:

- (A) X-axis**
- (B) Y-axis**
- (C) At origin**
- (D) Between x-axis and y-axis**

Q.26 If the coordinates of a point are $(3, 0)$, then it lies in:

- (A) X-axis**
- (B) Y-axis**
- (C) At origin**
- (D) Between x-axis and y-axis**

Q.27 If the coordinates of a point are $(-3, 4)$, then it lies in:

- (A) First quadrant**
- (B) Second quadrant**
- (C) Third quadrant**
- (D) Fourth quadrant**

Q.28 If the coordinates of a point are $(-3, -4)$, then it lies in:

- (A) First quadrant**
- (B) Second quadrant**
- (C) Third quadrant**
- (D) Fourth quadrant**

Q.29 Points $(1, 2)$, $(-2, -3)$, $(2, -3)$:

- (A) First quadrant**
- (B) Do not lie in the same quadrant**
- (C) Third quadrant**
- (D) Fourth quadrant**

Q.30 If x coordinate of a point is zero, then the point lies on:

- (A) First quadrant**
- (B) Second quadrant**
- (C) X-axis**
- (D) Y-axis**

Sequences & progressions :

Select the suitable option :

Q.31 The next term in sequence 2, 4, 6, 8 is

- (A) 9**
- (B) 10**
- (C) 12**
- (D) 14**

Q.32 The sequence 3, 6, 9, 12 is

- (A) GP**
- (B) AP**
- (C) Both**
- (D) None of these**

Q.33 Common difference of 5, 9, 13 is

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

Q.34 The 5th term of AP: 2, 4, 6,...

- (A) 8**
- (B) 10**
- (C) 12**
- (D) 14**

Q.35 Which is a GP?

- (A) 2,4,6**
- (B) 3,9,27**
- (C) 5,10,15**
- (D) 1,3,5**

Q.36 Common ratio of 2, 6, 18

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

Q.37 GP example

- (A) 1,2,4,8**
- (B) 2,4,6,8**
- (C) 3,6,9**
- (D) 5,7,9**

Q.38 7th term of AP: $a=1$, $d=2$

- (A) 11**
- (B) 12**
- (C) 13**
- (D) 14**

Q.39 If $r=1$, GP becomes

- (A) Constant**
- (B) Increasing**
- (C) Decreasing**
- (D) Zero**

Q.40 Tower of Hanoi is related to

- (A) AP**
- (B) GP**
- (C) Both (A)& (B)**
- (D) None**

Answers :

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

Exploring Algebraic Identities :

Select the suitable option :

Q.1 Which one is not a polynomial?

- (A) $4x^2 + 2x - 1$
- (B) $y + (3/y)$
- (C) $x^3 - 1$
- (D) $y^2 + 5y + 1$

Q.2 The polynomial $px^2 + qx + rx^4 + 5$ is type of:

- (A) Linear
- (B) Quadratic
- (C) Cubic
- (D) Biquadratic

Q.3 Identify the polynomial

- (A) $x^{-2} + x^{-1} + 5$
- (B) $x^2 + x^{1/2} + 5$
- (C) $x^{-3} + x^{1/2} + 5$
- (D) $3x^2 + 7$

Q.4 The zero of the polynomial $p(x) = 2x + 5$ is:

- (A) 2
- (B) 5
- (C) $2/5$
- (D) $-5/2$

Q.5 The number of zeros of $x^2 + 4x + 2$

- (A) 1
- (B) 2
- (C) 3
- (D) none of these

Q.6 The value of k, if $(x - 1)$ is a factor of $4x^3 + 3x^2 - 4x + k$, is:

- (A) 1**
- (B) 2**
- (C) -3**
- (D) 3**

Q.7 If $3 + 5 + (-8) = 0$, then find $(3)^3 + (5)^3 + (-8)^3 = ?$

- (A) 260**
- (B) -360**
- (C) -160**
- (D) 160**

Q.8 Find the value of 104×96

- (A) 9984**
- (B) 9469**
- (C) 10234**
- (D) 11324**

Q.9 $5.63 \times 5.63 + 11.26 \times 2.37 + 2.37 \times 2.37 = ?$

- (A) 237**
- (B) 126**
- (C) 56**
- (D) 64**

Q.10 If $x + y = 3$, $x^2 + y^2 = 5$ then $xy = ?$

- (A) 1**
- (B) 3**
- (C) 2**
- (D) 5**

Surface Areas & Volumes :

Select the suitable option :

Q.11 The formula to find the surface area of a cuboid of length (l), breadth (b) and height (h) is:

- (A) $lb+bh+hl$**
- (B) $2(lb+bh+hl)$**
- (C) $2(lbh)$**
- (D) $lbh/2$**

Q.12 The surface area of a cube whose edge equals to 3cm is:

- (A) 62 sq.cm**
- (B) 30 sq.cm**
- (C) 54 sq.cm**
- (D) 90 sq.cm**

Q.13 The surface area of cuboid-shaped box having length=80 cm, breadth=40cm and height=20cm is:

- (A) 11200 sq.cm**
- (B) 13000 sq.cm**
- (C) 13400 sq.cm**
- (D) 12000 sq.cm**

Q.14 If the radius of a cylinder is 4cm and height is 10cm, then the total surface area of a cylinder is:

- (A) 440 sq.cm**
- (B) 352 sq.cm.**
- (C) 400 sq.cm**
- (D) 412 sq.cm**

Q.15 The curved surface area of a right circular cylinder of height 14 cm is 88 sq.cm. The diameter of the base is:

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

Q.16 The curved surface area of a right circular cylinder is 4.4 sq.cm. The radius of the base is 0.7 cm. The height of the cylinder will be:

- (A) 2 cm**
- (B) 3 cm**
- (C) 1 cm**
- (D) 1.5 cm**

Q.17 The diameter of the base of a cone is 10.5 cm, and its slant height is 10 cm. The curved surface area is:

- (A) 150 sq.cm**
- (B) 165 sq.cm**
- (C) 177 sq.cm**
- (D) 180 sq.cm**

Q.18 The diameter of the base of a cone is 1.4 cm, and its slant height is 4.2 cm. The curved surface area is:

- (A) 2.24 sq.cm**
- (B) 9.24 sq.cm**
- (C) 8.14 sq.cm**
- (D) 6.94 sq.cm**

Q.19 The surface area of a sphere of radius 14 cm is:

- (A) 1386 sq.cm**
- (B) 1400 sq.cm**
- (C) 2464 sq.cm**
- (D) 2000 sq.cm**

Q.20 The total surface area of a cube is 96 sq.cm. The volume of the cube is:

- (A) 8 cubic cm**
- (B) 512 cubic cm**
- (C) 64 cubic cm**
- (D) 27 cubic cm**

Statistics :

Select the suitable option :

Q.21 The ratio of the sum of observations and the total number of observations is called:

- (A) Mean**
- (B) Median**
- (C) Mode**
- (D) Central tendency**

Q.22 The mean of $x+2$, $x+3$, $x+4$ and $x-2$ is:

- (A) $(x+7)/4$**
- (B) $(2x+7)/4$**
- (C) $(3x+7)/4$**
- (D) $(4x+7)/4$**

Q.23 The median of the data: 4, 6, 8, 9, 11 is

- (A) 6**
- (B) 8**
- (C) 9**
- (D) 11**

Q.24 The median of the data: 155, 160, 145, 149, 150, 147, 152, 144, 148 is

- (A) 149**
- (B) 150**
- (C) 147**
- (D) 144**

Q.25 The median of the data: 17, 2, 7, 27, 15, 5, 14, 8, 10, 24, 48, 10, 8, 7, 18, 28 is:

- (A) 10**
- (B) 24**
- (C) 12**
- (D) 8**

Q.26 The mode of the given data: 4, 6, 5, 9, 3, 2, 7, 7, 6, 5, 4, 9, 10, 10, 3, 4, 7, 6, 9, 9 is;

- (A) 7**
- (B) 9**
- (C) 10**
- (D) 6**

Q.27 The value which appears very frequently in a data is called:

- (A) Mean**
- (B) Median**
- (C) Mode**
- (D) Central tendency**

Q.28 The collection of information, collected for a purpose is called:

- (A) Mean**
- (B) Median**
- (C) Mode**
- (D) Data**

Q.29 The mean of the data 2, 3, 4, 5, 0, 1, 3, 3, 4, 3 is

- (A) 2**
- (B) 2.2**
- (C) 2.4**
- (D) 2.8**

Q.30 Which is not a measure of central tendency?

- (A) Standard deviation**
- (B) Mean**
- (C) Median**
- (D) Mode**

Probability :

Select the suitable option :

Q.31 The probability of each event, when a coin is tossed for 1000 times with frequencies: Head:455 & Tail: 545 is:

- (A) 0.455 & 0.545**
- (B) 0.5 & 0.5**
- (C) 0.45 & 0.55**
- (D) 455 & 545**

Q.32 The sum of all probabilities equal to:

- (A) 4**
- (B) 1**
- (C) 3**
- (D) 2**

Q.33 The probability of each event lies between:

- (A) 1 & 2**
- (B) 1 & 10**
- (C) 0 & 1**
- (D) 0 & 5**

Q.34 If $P(E) = 0.44$, then $P(\text{not } E)$ will be:

- (A) 0.44**
- (B) 0.55**
- (C) 0.50**
- (D) 0.56**

Q.35 The probability of drawing an ace card from a deck of cards is:

- (A) $1/52$**
- (B) $1/26$**
- (C) $4/13$**
- (D) $1/13$**

Q.36 A dice is thrown. The probability of getting 1 and 5 is:

- (A) $\frac{1}{6}$**
- (B) $\frac{2}{3}$**
- (C) $\frac{1}{3}$**
- (D) 0**

Q.37 A batsman hits boundaries for 6 times out of 30 balls. Find the probability that he did not hit the boundaries.

- (A) $\frac{1}{5}$**
- (B) $\frac{2}{5}$**
- (C) $\frac{3}{5}$**
- (D) $\frac{4}{5}$**

Q.38 What is the probability of getting an odd number less than 4, if a die is thrown?

- (A) $1/6$**
- (B) $1/2$**
- (C) $1/3$**
- (D) 0**

Q.39 A card is drawn from a well-shuffled deck of 52 cards. What is the probability of getting a king of the red suits?

- (A) $3/36$**
- (B) $1/26$**
- (C) $3/26$**
- (D) $1/16$**

Q.40 If two coins are tossed simultaneously, then what is the probability of getting exactly two tails?

- (A) $1/4$**
- (B) $1/2$**
- (C) $1/3$**
- (D) None of these**

Answers :

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

Science :

Cell :

Select the suitable option :

Q.1 Who discovered the cell for the first time?

- (A) Robert Brown**
- (B) Robert Hooke**
- (C) Antonie van Leeuwenhoek**
- (D) Purkinje**

Q.2 Which organelle is known as the "Powerhouse of the cell"?

- (A) Nucleus**
- (B) Golgi apparatus**
- (C) Mitochondria**
- (D) Ribosome**

Q.3 The cell wall of plants is mainly composed of:

- (A) Chitin**
- (B) Cellulose**
- (C) Proteins**
- (D) Lipids**

Q.4 Which is called the "Suicide Bag" of a cell?

- (A) Lysosome**
- (B) Vacuole**
- (C) Plastid**
- (D) Endoplasmic Reticulum**

Q.5 The kitchen of the plant cell is:

- (A) Mitochondria**
- (B) Chloroplast**
- (C) Nucleus**
- (D) Vacuole**

Q.6 Which of these is a prokaryotic cell?

- (A) Amoeba**
- (B) Bacteria**
- (C) Onion peel cell**
- (D) Human cheek cell**

Q.7 The process by which Amoeba acquires its food is called:

- (A) Exocytosis**
- (B) Endocytosis**
- (C) Plasmolysis**
- (D) Photosynthesis**

Q.8 DNA is found in which part of the cell?

- (A) Cytoplasm**
- (B) Ribosome**
- (C) Nucleus**
- (D) Golgi bodies**

Q.9 Chromosomes are made up of:

- (A) DNA and protein**
- (B) RNA and protein**
- (C) DNA only**
- (D) RNA only**

Q.10 Who proposed the "Cell Theory"?

- (A) Watson and Crick**
- (B) Schleiden and Schwann**
- (C) Mendel and Darwin**
- (D) Robert Hooke**

Tissues :

Select the suitable option :

Q.11 The cells of cork are dead and have a chemical in their walls that makes them impervious to gases and water. The chemical is

- (A) lignin**
- (B) suberin**
- (C) cutin**
- (D) wax**

Q.12 The flexibility in plants is due to a tissue called

- (A) chlorenchyma**
- (B) parenchyma**
- (C) sclerenchyma**
- (D) collenchyma**

Q.13 The tissue present in the lining of kidney tubules and ducts of salivary glands is

- (A) squamous epithelium tissue**
- (B) glandular epithelium tissue**
- (C) cuboidal epithelium tissue**
- (D) columnar epithelium tissue**

Q.14 The connective tissue that connects muscle to bone is called

- (A) ligament**
- (B) tendon**
- (C) nervous tissue**
- (D) all of the above**

Q.15 The tissue that helps in the movement of our body are

- (A) muscular tissue**
- (B) skeletal tissue**
- (C) nervous tissue**
- (D) all of the above**

Q.16 Sieve tubes and companion cells are present in

- (A) xylem**
- (B) phloem**
- (C) cork**
- (D) cambium**

Q.17 The size of the stem increases in the width due to

- (A) apical meristem**
- (B) intercalary meristem**
- (C) primary meristem**
- (D) lateral meristem**

Q.18 Cartilage and bone are types of

- (A) muscular tissue**
- (B) connective tissue**
- (C) meristematic tissue**
- (D) epithelial tissue**

Q.19 Xylem and phloem are examples of

- (A) epidermal tissue**
- (B) simple tissue**
- (C) protective tissue**
- (D) complex tissue**

Q.20 A tissue whose cells are capable of dividing and re-dividing is called

- (A) complex tissue**
- (B) connective tissue**
- (C) permanent tissue**
- (D) meristematic tissue**

Exploring Mixtures & their Separation : Select the suitable option :

Q.21 Which is a pure substance?

- (A) Air**
- (B) Distilled water**
- (C) Steel**
- (D) Brass**

Q.22 Which is an example of a gas-in-gas mixture?

- (A) Fog**
- (B) Air**
- (C) Soda water**
- (D) Smoke**

Q.23 The 'Tyndall Effect' is observed in which?

- (A) Salt solution**
- (B) Sugar solution**
- (C) Milk**
- (D) Copper sulfate solution**

Q.24 A mixture in which the solute particles do not dissolve but remain suspended throughout the bulk of the medium is a:

- (A) Colloid**
- (B) True solution**
- (C) Suspension**
- (D) Saturated solution**

Q.25 Which is a 'Sol' (solid-in-liquid colloid)?

- (A) Shaving cream**
- (B) Milk of magnesia**
- (C) Cheese**
- (D) Mist**

Q.26 The continuous zigzag motion of colloidal particles is known as:

- (A) Tyndall effect**
- (B) Brownian movement**
- (C) Osmosis**
- (D) Diffusion**

Q.27 To separate a mixture of salt and ammonium chloride, which method is used?

- (A) Evaporation**
- (B) Crystallization**
- (C) Sublimation**
- (D) Filtration**

Q.28 To get pure copper sulfate from an impure sample, the best method is:

- (A) Evaporation to dryness**
- (B) Filtration**
- (C) Crystallization**
- (D) Sedimentation**

Q.29 Which is used to separate a mixture of oil and water?

- (A) Distillation flask**
- (B) Separating funnel**
- (C) Filter paper**
- (D) Centrifuge**

Q.30 A mixture of acetone and water can be separated by:

- (A) Sublimation**
- (B) Simple distillation**
- (C) Filtration**
- (D) Separating funnel**

Motion :

Select the suitable option :

Q.31 What would be the displacement of a particle moving in a circular path of radius r after a displacement of half a circle?

- (A)** $2\pi r$
- (B)** πr
- (C)** $2r$
- (D)** Zero

Q.32 The path length travelled by a body in a given time interval is known as ____.

- (A)** distance
- (B)** velocity
- (C)** acceleration
- (D)** moment

Q.33 Velocity is defined as ____ per time.

- (A)** distance
- (B)** displacement
- (C)** power
- (D)** acceleration

Q.34 What does the slope of the distance-time graph give?

- (A) speed**
- (B) velocity**
- (C) acceleration**
- (D) displacement**

Q.35 What does the slope of the velocity-time graph give?

- (A) speed**
- (B) velocity**
- (C) acceleration**
- (D) displacement**

Q.36 Which of the following is true of a free-falling body?

- (A) It moves with non-uniform motion**
- (B) It has zero velocity**
- (C) It has constant non-zero acceleration**
- (D) It has non-uniform acceleration**

Q.37 _____ can be added algebraically.

- (A) Accelerations**
- (B) Velocities**
- (C) Distances**
- (D) all physical quantities**

Q.38 The distance-time graph of a body moving along a straight path in a single direction with uniform speed will be ____.

- (A) along X-axis**
- (B) a line with positive slope**
- (C) parallel to X-axis**
- (D) None of these**

Q.39 A body travelling equal distances in equal intervals of time is said to be moving with uniform velocity if the body moves along a _____ path.

- (A) straight**
- (B) rectangular**
- (C) circular**
- (D) hexagonal**

Q.40 A body travels along a straight path from its initial position to a point 20 m away and then returns back to its initial position. The change in the position of the body is ____ and the distance travelled is ____.

- (A) 20 m, 40 m**
- (B) 0 m, 40 m**
- (C) 40 m, 40 m**
- (D) 0 m, 0 m**

Force & Laws of Motion :

Select the suitable option :

Q.41 If the mass of the body is doubled and its velocity becomes half, then the linear momentum of the body will

- (A) become double**
- (B) remain the same**
- (C) become half**
- (D) become four times**

Q.42 The linear momentum of an object is 250 g cm/s. If the velocity of the object is 5 m/s, then the mass of the object is

- (A) 0.5 g**
- (B) 5 kg**
- (C) 0.5 mg**
- (D) 5 mg**

Q.43 Which of the following is true about force?

- (A) Force is invisible**
- (B) Force can move a body**
- (C) It can deform a body**
- (D) All of the above**

Q.44 Which law is also known as the law of inertia?

- (A) Newton's first law of motion**
- (B) Newton's second law of motion**
- (C) Newton's third law of motion**
- (D) Law of conservation of momentum**

Q.45 A passenger in a moving train tosses a coin that falls behind him. It means that the motion of the train is

- (A) uniform**
- (B) accelerated**
- (C) retarded**
- (D) along circular tracks**

Q.46 According to the third law of motion, action, and reaction

- (A) always act on the same body**
- (B) always act on different bodies in opposite directions**
- (C) have same magnitude and directions**
- (D) act on either body at normal to each other**

Q.47 Rocket works on the principle of conservation of

- (A) mass**
- (B) energy**
- (C) momentum**
- (D) velocity**

Q.48 When a car at high speed makes a sharp turn, the driver in a car tends to get thrown to the side opposite to the turn. This is due to the

- (A) inertia of motion**
- (B) inertia of time**
- (C) inertia of rest**
- (D) inertia of direction**

Q.49 An athlete does not come to rest immediately after crossing the winning line due to the

- (a) inertia of motion**
- (B) inertia of rest**
- (C) inertia of direction**
- (D) none of these**

Q.50 If the force acting on the body is zero, Its momentum is:

- (A) Zero**
- (B) remains constant**
- (C) Infinite**
- (D) None of the above**

Answers :

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

Work and Energy :

Select the suitable option :

Q.1 The formula to find the work done is

- (A) $W = F + s$**
- (B) $W = F \cdot s$**
- (C) $W = F - s$**
- (D) $W = F / s$**

Q.2 If a force acting on a body causes no displacement, the work done is _____ .

- (A) -1**
- (B) 1**
- (C) 0**
- (D) Infinity**

Q.3 Objects in motion possess energy and can do work; this energy is called _____ .

- (A) Solar energy**
- (B) Thermal energy**
- (C) Potential energy**
- (D) Kinetic Energy**

Q.4 The sum of kinetic energy and potential energy is _____ .

- (A) Mechanical energy**
- (B) Thermal energy**
- (C) Potential energy**
- (D) Kinetic Energy**

Q.5 1 kilowatt =

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

Q.6 The energy used in one hour at the rate of 1KW is known as _____ .

- (A) 10 KWh**
- (B) 1 KWh**
- (C) 1 W**
- (D) 1 KW/h**

Q.7 What are the various factors affecting kinetic energy?

- (A) Mass**
- (B) Momentum**
- (C) Velocity**
- (D) All the above**

Q.8 The unit of work is joule. The other physical quantity that has same unit is

- (A) power**
- (B) velocity**
- (C) energy**
- (D) force**

Q.9 How much time will be required to perform 520 J of work at the rate of 20 W?

- (A) 24s**
- (B) 16s**
- (C) 20 s**
- (D) 26 s**

Q.10 A student carries a bag weighing 5 kg from the ground floor to his class on the first floor that is 2 m high. The work done by the boy is

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

Reproduction :

Select the suitable option :

Q.11 The process of the fusion of male and female gametes is called:

- (A) Fission**
- (B) Fertilization**
- (C) Budding**
- (D) Fragmentation**

Q.12 Which organism reproduces by budding?

- (A) Amoeba**
- (B) Hydra**
- (C) Plasmodium**
- (D) Paramecium**

Q.13 Binary fission is a method of reproduction found in:

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

Q.14 The male gamete in humans is called:

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

Q.15 In which part of the female reproductive system does fertilization occur?

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

Q.16 Tadpoles develop into adult frogs through a process called:

- (A) Budding**
- (B) Fertilisation**
- (C) Metamorphosis**
- (D) Embedding**

Q.17 Cloning is a mode of:

- (A) Sexual reproduction**
- (B) Asexual reproduction**
- (C) Both a and b**
- (D) None of the above**

Q.18 The number of nuclei present in a zygote is:

- (A) None**
- (B) One**
- (C) Two**
- (D) Four**

Q.19 In asexual reproduction, how many parents are involved?

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

Q.20 Which is not a part of the male reproductive system?

- (A) Testes**
- (B) Penis**
- (C) Ovary**
- (D) Sperm duct**

Diversity :

Select the suitable option:

Q.21 Who is known as the 'Father of Taxonomy'?

- (A) Aristotle**
- (B) Charles Darwin**
- (C) Carl Linnaeus**
- (D) Robert Whittaker**

Q.22 Unicellular eukaryotic organisms are placed in the kingdom:

- (A) Monera**
- (B) Protista**
- (C) Fungi**
- (D) Animalia**

Q.23 Blue-green algae (Cyanobacteria) belong to which kingdom?

- (A) Protista**
- (B) Plantae**
- (C) Monera**
- (D) Fungi**

Q.24 Which group of plants is called the 'Amphibians of the plant kingdom'?

- (A) Thallophyta**
- (B) Bryophyta**
- (C) Pteridophyta**
- (D) Gymnosperms**

Q.25 Plants that do not have a well-differentiated body design belong to:

- (A) Bryophyta**
- (B) Thallophyta**
- (C) Gymnosperms**
- (D) Angiosperms**

Q.26 The reproductive organs are hidden in which?

- (A) Cryptogamae**
- (B) Phanerogamae**
- (C) Gymnosperms**
- (D) Angiosperms**

Q.27 Naked-seeded plants are called:

- (A) Angiosperms**
- (B) Pteridophytes**
- (C) Gymnosperms**
- (D) Bryophytes**

Q.28 Bilateral symmetry and a flattened body are found in:

- (A) Roundworms**
- (B) Earthworms**
- (C) Flatworms**
- (D) Sponges**

Q.29 Which is the largest phylum of the animal kingdom?

- (A) Mollusca**
- (B) Arthropoda**
- (C) Annelida**
- (D) Chordata**

Q.30 The 'Water Vascular System' is a unique feature of:

- (A) Porifera**
- (B) Echinodermata**
- (C) Mollusca**
- (D) Arthropoda**

Structure of the Atom :

Select the suitable option :

Q.31 Mass of proton is _____ .

- (A) 1.000 amu**
- (B) 0.9073 amu**
- (C) 1.0073 amu**
- (D) 5.486/10000 amu**

Q.32 The atomic number of an element is equal to ____ .

- (A) number of neutrons**
- (B) number of electrons**
- (C) number of protons**
- (D) number of neutrons + number of protons**

Q.33 An alpha particle is also known as _____ .

- (A) subatomic particle**
- (B) an unionised helium atom**
- (C) a neutral particle**
- (D) a doubly-charged helium ion**

Q.34 How many electrons are occupied in the M shell?

- (A) 8**
- (B) 16**
- (C) 18**
- (D) 32**

Q.35 Who discovered the electron?

- (A) Goldstein**
- (B) J. J. Thomson**
- (C) Chadwick**
- (D) Eugen Goldstein**

Q.36 The nucleons are:

- (A) Protons and electrons**
- (B) Neutrons and electrons**
- (C) Protons and neutrons**
- (D) None of these**

Q.37 The isotope deuterium of hydrogen has:

- (A) No neutrons and one proton**
- (B) One neutrons and two protons**
- (C) One electron and two neutron**
- (D) One proton ,one neutron and one electron**

Q.38 The electrons present in the outermost shell: are called

- (A) Valency electrons**
- (B) Octate electrons**
- (C) Duplet electrons**
- (D) Valence electrons**

Q.39 The atomic number of sodium is 11 and its mass number is 23. It has:

- (A) 11 neutrons and 12 protons**
- (B) 12 protons and 11 electrons**
- (C) 11 electrons and 12 neutrons**
- (D) 12 electrons and 11 neutrons**

Q.40 The electronic configuration of chlorine is:

- (A) 2,7**
- (B) 2,8,8,7**
- (C) 2,8,7**
- (D) 2,7,8**

Atoms and Molecules :

Select the suitable option :

Q.41 The atomic symbol of silver is _____ .

- (A) Si
- (B) S
- (C) Au
- (D) Ag

Q.42 Which of the following is the correct pair of atom and its atomic symbol?

- (A) Sulphur – Su
- (B) Potassium – P
- (C) Phosphorus -P
- (D) Sodium- S

Q.43 How many moles are present in 40 g of He?

- (A) 5 moles
- (B) 20 moles
- (C) 6 moles
- (D) 10 moles

Q.44 Atomic mass of Chlorine is _____(u).

- (A) 34
- (B) 34.5
- (C) 35
- (D) 35.5

Q.45 46 gm of sodium is equal to _____ .

- (A) 7 moles
- (B) 1.5 moles
- (C) 2 moles
- (D) 1 mole

Q.46 The atomic symbol of Iron is -----.

- (A) I**
- (B) Fe**
- (C) Ir**
- (D) Au**

Q.47 What is the formula mass unit of ZnO?

- (A) 18 u**
- (B) 81 u**
- (C) 88 u**
- (D) 188 u**

Q.48 The combining capacity of an element is called ----- .

- (A) Valency**
- (B) Atomicity**
- (C) Atomic number**
- (D) valence electrons**

Q.49 In ammonia , nitrogen and hydrogen is in ratio by mass.

- (A) 14:5**
- (B) 14:3**
- (C) 14:8**
- (D) 14:2**

Q.50 Which atoms exist by only one atom of that element.

- (A) Gaseous**
- (B) Metals**
- (C) Nonmetals**
- (D) Noble gas**

Answers :

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

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 Languages :

Select the suitable option :

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

- (A) 4000**
- (B) 9000**
- (C) 6000**
- (D) 7100**

Q.12 Which one of the following languages 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) French**
- (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 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 of the following does not have a federal political system?

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

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

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

Q.37 Which of the following are 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 state 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**

Computer :

Select the suitable option :

Q.11 Which is not an example of Intellectual Property rights?

- (A) Patent**
- (B) Trademark**
- (C) Password**
- (D) Industrial Design**

Q.12 Computerized railway reservation system is an example of ____ .

- (A) Offline application**
- (B) Online application**
- (C) Both a and b**
- (D) None of the above**

Q.13 While you are using Internet, you must be aware of_____ .

- (A) how to conduct ourselves**
- (B) how best to relate with others**
- (C) what ethics, morals & values to maintain**
- (D) all of these**

Q.14 Using the material without the permission of the owner or creator is called _____

- (A) Law Violation**
- (B) Theft**
- (C) Cyber Law Violation**
- (D) None of these**

Q.15 _____ implies repeatedly targeting someone with intentions to hurt or embarrass

- (A) Cybercrime**
- (B) Cyberbullying**
- (C) Plagiarism**
- (D) Intellectual Property Rights**

Q.16 Which of the following is a valid file extension for Notepad file?

- (A) .jpg**
- (B) .doc**
- (C) .text (POST) starts**
- (D) .txt**

Q.17 How can an antivirus protect your device?

- (A) It can protect it from overheating.**
- (B) It can increase its performance.**
- (C) It can prevent data from getting corrupt.**
- (D) It can backup data.**

Q.18 Which one of the following shortcut keys is used to paste a file?

- (A) Ctrl + c**
- (B) Ctrl + p**
- (C) Ctrl + v**
- (D) Ctrl + x**

Q.19 Which option is required to keep a device cool?

- (A) Keep the device unplugged when in use.**
- (B) Do not cover a laptop with a blanket.**
- (C) Make sure the computer's CPU fan is working.**
- (D) Avoid leaving the device in the sun.**

Q.20 Which of the following trap small children into inappropriate relations?

- (A) Online predators**
- (B) Worms**
- (C) Trojan Horse**
- (D) Anti-Virus**

Abbreviations :

Select the suitable option :

Q.21 What is the full form of USB?

- (A) Universal Serial Bus**
- (B) Ultra Service Block**
- (C) United Service Block**
- (D) Universal Security Block**

Q.22 What does RAM stand for?

- (A) Read Access Memory**
- (B) Read Anywhere Memory**
- (C) Random Access Memory**
- (D) Random Access Module**

Q.23 This key uniquely identifies each record.

- (A) Field Name**
- (B) Secondary Key**
- (C) Key Record**
- (D) Primary Key**

Q.24 What is a URL?

- (A) Uniform Resource Locator**
- (B) the address of a document or “page” on the World Wide Web**
- (C) a type of programming object**
- (D) a computer software program**

Q.25 UNIVAC stands for

- (A) Unique Numerical Integrator and Computer**
- (B) Universal Assumable Calculator**
- (C) Universal Adding Calculator**
- (D) Universal Automatic Computer**

Q.26 ASCII stands for

- (A) American Special Computer for Information Interaction**
- (B) American Standard Computer for Information Interchange**
- (C) American Standard Code for Information Interchange**
- (D) American Special Computer for Information Interchange**

Q.27 What is the full form of AT in the IBM PC-AT?

- (A) Applied Technology**
- (B) Assemble Technology**
- (C) Advance Technology**
- (D) Additional Technology**

Q.28 ERP is an acronym for

- (A) Enterprise Retirement Planning**
- (B) Enterprise Relationship Planning**
- (C) Enterprise Recorder Planning**
- (D) Enterprise Resource Planning**

Q.29 CPU stands for ____

- (A) Create Programs User**
- (B) Call Power Up**
- (C) Central Processing Unit**
- (D) CD-run on memory**

Q.30 What does 'C' represent in MICR?

- (A) Character**
- (B) Computer**
- (C) Column**
- (D) Code**

Dates, Days & Years :

Select the suitable option :

Q.31 What is celebrated on 10th December?

- (A) Human Rights Day**
- (B) World Malaria Day**
- (C) Mother's Day**
- (D) World Hindi Day**

Q.32 International Women's day is celebrated on which day?

- (A) 4th July**
- (B) 3rd October**
- (C) 10th March**
- (D) 8th March**

Q.33 On which month World Immunization Week is celebrated?

- (A) January**
- (B) April**
- (C) May**
- (D) December**

Q.34 When is Earth Day celebrated?

- (A) 22nd April**
- (B) 22nd March**
- (C) 22nd February**
- (D) 22nd October**

Q.35 When was International Yoga day first celebrated?

- (A) 21st June 2012**
- (B) 21st June 2015**
- (C) 21st June 2012**
- (D) 20th June 2015**

Q.36 Which summit initiated Tiger Day?

- (A) Saint Petersburg Tiger Summit 2010**
- (B) Saint Petersburg Tiger Summit 2016**
- (C) Saint Petersburg Tiger Summit 2005**
- (D) Saint Petersburg Tiger Summit 2000**

Q.37 When is World Post Office day celebrated?

- (A) 10th October**
- (B) 9th October**
- (C) 3rd October**
- (D) 15th October**

Q.38 What is celebrated on 27th September?

- (A) World Tourism Day**
- (B) World Students Day**
- (C) World Arthritis Day**
- (D) World Maritime Day**

Q.39 Which day is celebrated as National Girl Child Day?

- (A) 26th January**
- (B) 14th February**
- (C) 24th January**
- (D) 14th July**

Q.40 National science day is celebrated in the honor of whom?

- (A) A. P. J. Abdul Kalam**
- (B) C. V. Raman**
- (C) Vikram Sarabhai**
- (D) Ashok Sen**

Culture and Heritage :

Select the suitable option :

Q.41 Which Indian Academy is promoting dance, drama and music?

- (A) Sahitya Academy**
- (B) Lalit Kala Academy**
- (C) National School of Drama**
- (D) Sangeet Natak Academy**

Q.42 The word 'Sathyameva Jayate' is taken from _____.

- (A) Yajur Veda**
- (B) Atharva Veda**
- (C) Mundaka Upanishad**
- (D) Sam Veda**

Q.43 According to the cultural history of India 'Panchayatan' is:

- (A) An assembly of elders of village**
- (B) A religious sect**
- (C) Temple construction style**
- (D) Functionary of an administration**

Q.44 Dandia' is a popular dance of

- (A) Punjab**
- (B) Gujarat**
- (C) Tamil Nadu**
- (D) Maharashtra**

Q.45 Where is Pushkar Fair held?

- (A) Udaipur**
- (B) Jaisalmer**
- (C) Jodhpur**
- (D) Ajmer**

Q.46 Sattriya is a classical dance form of which State?

- (A) Manipur**
- (B) Uttar Pradesh**
- (C) Assam**
- (D) Andhra Pradesh**

Q.47 Which folk dance forms is associated with Gujarat?

- (A) Nautanki**
- (B) Garba**
- (C) Kathakali**
- (D) Bhangra**

Q.48 In which style of dance the story/ theme is always taken from Mahabharata and Ramayana?

- (A) Bharatanatyam**
- (B) Mohiniattam**
- (C) Odissi**
- (D) Kuchipudi**

Q.49 The Rath Yatra at Puri is celebrated in honour of which Hindu deity

- (A) Ram**
- (B) Jagannath**
- (C) Shiva**
- (D) Vishnu**

Q.50 Which is not a feature of North Indian temple architecture?

- (A) Sikhara**
- (B) Garbha Griha**
- (C) Gopuram**
- (D) Pradakshina**

Answers :

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

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