SSC CHSL Previous Paper 39 (Held On: 21 March 2018 Shift 2) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2018 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) humanitarianism
(b) humanitariaesm
(c) humaniterianism
(d) humaniteriaesm

Q2. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

On another day I was

A: demanded to see my ticket

B: ticket-checking personnel

C: travelling in the train when the

(a) CAB
(b) BCA
(c) CBA
(d) BAC

Q3. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select 'no improvement'.

In the post-liberalisation era, urbanisation (has being taking) place at a rapid pace.

(a) has taken
(b) has been took
(c) had been took
(d) no improvement

Q4. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select 'no improvement'.

I (has failed) in my eleventh grade chemistry paper.

(a) was fail
(b) had failed
(c) is failing
(d) no improvement

Q5. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

In a way that is clear or obvious to the eye or mind

(a) Abstruse
(b) Clandestine
(c) Manifest

(d) Covertly

Q6. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Be appropriate or applicable

(a) Futile
(b) Extraneous
(c) Appertain
(d) Irrelative

Q7. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Off the hook

(a) Every thing prepared and kept ready for you
(b) Accept something without checking its veracity
(c) No longer in difficulty or trouble
(d) Put a person who is helping you into a difficult situation

Q8. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Don't count your chickens before they hatch.

(a) Counting your wealth repeatedly does not increase it.
(b) You should not make plans that depend on something good happening before you know that it has actually happened.
(c) Chicken and egg is an infinite cycle, you can count this cycle endlessly.
(d) Eggs will not hatch unless you cease the counting process.

Directions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

Society and individuals will evolve _____ changing times. Technology will continue to play an increasingly _____ role in our lives in the years to come. Passing the blame on to technology is the easiest thing to do, but how we _____ to use technology is an individual decision. In an attempt to be connected with the world ___ large, are we getting disconnected with the people who mean the most to us? This is a question worth pondering _____.

Q9. This is a question worth pondering _____.

(a) onto
(b) above
(c) over
(d) in

Q10. with the world _____ large, are we getting

(a) to
(b) as
(c) at
(d) is

Q11. but how we _____ to use technology

(a) choice
(b) choose
(c) choices
(d) chosen

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Q12. play an increasingly _____ role in our lives

(a) importances
(b) important
(c) importance
(d) importantly

Q13. Society and individuals will evolve _____ changing times.

(a) by
(b) so
(c) if
(d) with

Q14. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

(a) Dielema
(b) Dilemma
(c) Dielemma
(d) Dilemna

Q15. A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

She said, “I will visit the temple.”

(a) She said that she will visit the temple.
(b) She said that she would visit the temple.
(c) She acknowledged that she would visit the temple.
(d) She says she would visit the temple.

Q16. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

The youngsters lined the cafe.

(a) The cafe is lined by the youngsters.
(b) The cafe was lined by the youngsters.
(c) The cafe lined by the youngsters.
(d) The cafe is lined.

Q17. Rearrange the parts of the sentence in correct order.

Over population of humans is

P : the biggest factor behind so

Q : many social, sustainable and environmental

R : issues all over the world

(a) RQP
(b) QPR
(c) PRQ
(d) PQR

Q18. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Airy

(a) Stuffy
(b) Graceful
(c) Indifferent
(d) Light

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Q19. In the following question, out of the four alternatives, choose the word which is opposite in meaning of the given word.

Arraign

(a) Accuse
(b) Charge
(c) Indict
(d) Free

Q20. In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word.

Snaky

(a) Clever
(b) Mild
(c) Sinuous
(d) Wild

Q21. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Perspicacious

(a) Foolish
(b) Obscure
(c) Shrewd
(d) Indistinct

Q22. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The server with _____ I was talking is my good friend.

(a) who
(b) her
(c) whom
(d) which

Q23. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

He asked him to _____ some documents.

(a) set out
(b) go through
(c) look up
(d) imagine

Q24. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select "No Error".

A balanced diet is one that provide (1)/ an adequate intake of energy and nutrients (2)/ for the maintenance of the body and good health. (3)/ No error (4)

(a) 1
(b) 2
(c) 3
(d) 4

Q25. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select "No Error".

When we respect (1)/ everyone’s spiritual identity, (2)/ we promote peace and happiness to all. (3)/No error (4)

(a) 1
(b) 2

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(c) 3
(d) 4

GENERAL INTELLIGENCE

Q26. In the following question, select the related word pair from the given alternatives.

Perimeter : Hexagon : : ? : ?

(a) Length : Breadth
(b) Circle : Circumference
(c) Circle : Radius
(d) Perimeter : Rhombus

Q27. In the following question, select the related number from the given alternatives.

45 : 20 : : 46 : ?

(a) 32
(b) 28
(c) 24
(d) 22

Q28. In the following question, select the related letter/letters from the given alternatives.

IMO : PTV : : KOQ : ?

(a) QUX
(b) SVW
(c) RVX
(d) RUW

Q29. In the following question, select the odd word pair from the given alternatives.

(a) Mammal - Goat
(b) Amphibian - Frog
(c) Reptile - Turtle
(d) Crocodile - Reptile

Q30. In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) 58 - 62
(b) 18 - 22
(c) 24 - 28
(d) 36 - 42

Q31. In the following question, select the odd letter/letters from the given alternatives.

(a) EHL
(b) JMP
(c) SVY
(d) QTW

Q32. From the given alternatives, according to dictionary, which word will come at LAST position?

1. Jailor 2. Javelin 3. Jam 4. Jagged 5. Jacket

(a) Javelin
(b) Jailor
(c) Jacket
(d) Jagged

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Q33. In the following question, select the missing number from the given series.

6578, 4381, 2653, ?, 322

(a) 1322
(b) 1653
(c) 1326
(d) 1632

Q34. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

FH, KM, PR, UW,?

(a) ZB
(b) YA
(c) XZ
(d) YC

Q35. Six boys are sitting in a row facing south. Gaurav is second to the right of Akash who is at one of the end. Prem is at fourth position to the left of Raman. Jatin and Nitin sit together. How many boys are sitting to the left of Nitin?

(a) 4
(b) 2
(c) 3
(d) Cannot be determined

Q36. From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

Hardship

(a) Ship
(b) Hip
(c) Hard
(d) Road

Q37. In a certain code language, “CAB” is written as “6” and “LAN” is written as “27”. How is “FAN” written in that code language?

(a) 20
(b) 21
(c) 22
(d) 23

Q38. In a certain code language, '÷' represents '+', '-' represents '×', '+' represents '÷' and '×' represents '-'. Find out the answer to the following question.

17 - 8 + 2 × 9 ÷ 8 =

(a) 7
(b) 40
(c) 67
(d) 32

Q39. The following equation is incorrect. Which two signs should be interchanged to correct the equation?

17 × 6 + 2 - 9 ÷ 2 = 44

(a) • and +
(b) ÷ and ×
(c) × and -
(d) • and ÷

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Q40. If 1!9 = -80, 2!8 = -60 and 8!1 = 70, then find the value of 3!2 = ?

(a) -20
(b) -120
(c) 100
(d) 10

Q41. Which of the following terms follows the trend of the given list?

QRPQPQPQP, QPRQPQPQP, QPQRPQPQP, QPQPRQPQP, QPQPQRPQP, _____.

(a) QPQPQPRQP
(b) RQPQPQPQP
(c) QRPQPQPQP
(d) QPRQPQPQP

Q42. A street vendor pushes his cart 2 km South, then he turns East and walks 2.5 km, then he turns North and walks 1 km, then he turns to his left and walks 2.5 km. Where is he with respect to his starting point?

(a) 3 km South
(b) 1 km North
(c) 3 km North
(d) 1 km South

Q43. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: All pancakes are bread

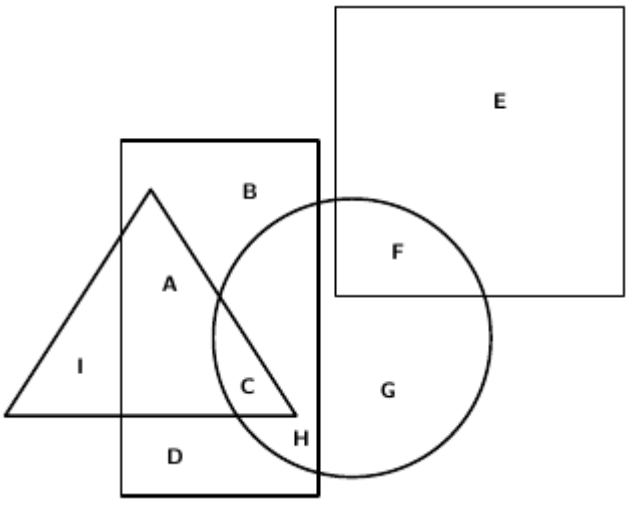
Statement II: Some pizzas are pancakes

Conclusion I: No bread are pizzas

Conclusion II: Some pizzas are bread

(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both conclusions I and II follow
(d) Neither conclusion I nor conclusion II follows

Q44. In the following figure, rectangle represents Authors, circle represents Food stylists, triangle represents Potters and square represents Cricketers. Which set of letters represents Authors who are either Food stylists or Potters?



(a) ACH
(b) AC
(c) CH
(d) C

Q45. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

HPU, BJO, VDI, PXC, ?

(a) JPX
(b) KRX
(c) KPW
(d) JRW

Q46. In the following question, select the missing number from the given series.

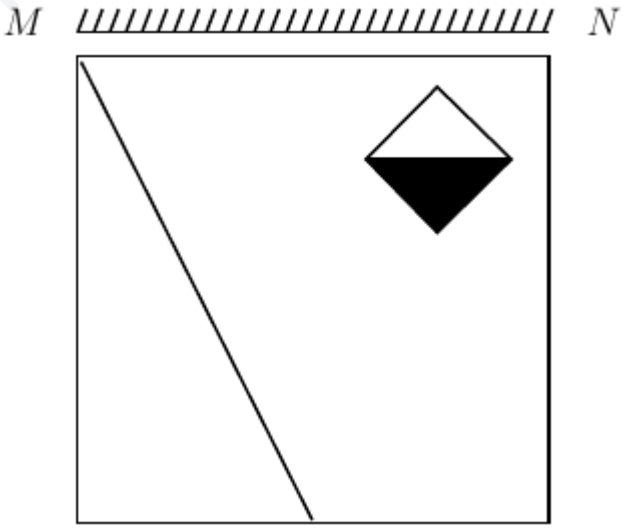
29, 27, 24, ?, 15, 9

(a) 22
(b) 18
(c) 20
(d) 16

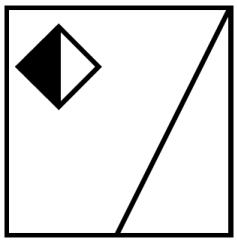
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (4, 17, 13)
(b) (6, 19, 15)
(c) (15, 28, 25)
(d) (11, 24, 20)

Q48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

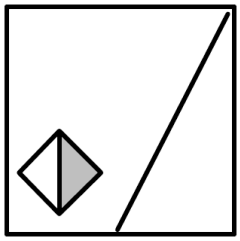


(a)

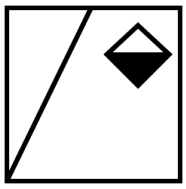


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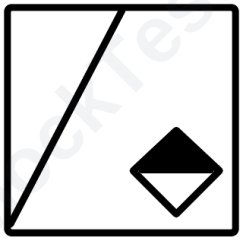
(b)



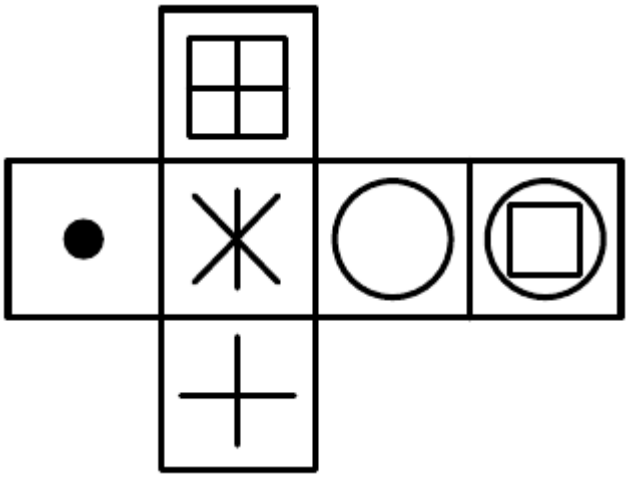
(c)



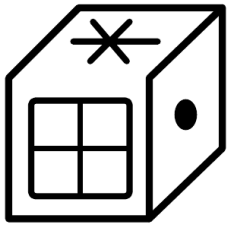
(d)



Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?

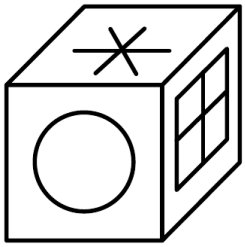


(a)

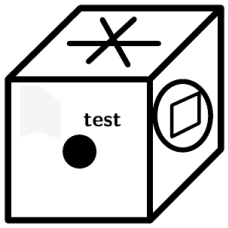


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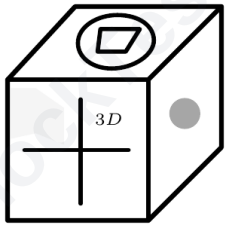
(b)



(c)



(d)



Q50. A word is represented by only set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example ‘C’ can be represented by 20, 32 etc and ‘S’ can be represented by 58, 98 etc. Similarly, you have to identify the set for the word ‘BANE’.

Matrix-II		**Matrix-II**									
	0	1	2	3	4		5	6	7	8	9
0	A	J	M	L	H	5	P	Y	V	S	W
1	D	K	J	M	E	6	R	O	R	U	Z
2	C	L	K	L	B	7	T	U	U	P	O
3	E	A	C	K	E	8	W	X	Q	W	N
4	I	K	I	L	D	9	N	N	P	S	X

(a) 20, 67, 21, 78
(b) 24, 66, 34, 79
(c) 24, 31, 96, 14
(d) 23, 78, 11, 99

QUANTITATIVE APTITUDE

Q51. The sum of a fraction and its reciprocal is 113/56. Find the fraction.

(a) 7/8
(b) 5/8
(c) 8/9
(d) 3/7

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Q52. The sum of the squares of three consecutive odd numbers is 2195. Find the numbers.

(a) 21, 23, 25
(b) 23, 25, 27
(c) 25, 27, 29
(d) 27, 29, 31

Q53. If (8, 2) is a solution of $x + 4y - 2k = 0$, then find the value of k^2.

(a) 36
(b) 49
(c) 64
(d) 81

Q54. From which of the following quadrants does the line $7x + 12y = 16$ will pass?

(a) I and II
(b) II and III
(c) I, II, III
(d) I, II, IV

Q55. Calculate the length (in cm) of the chord of the circle which is at the distance of the 12 cm from the centre and the radius of the circle is 13 cm.

(a) 10
(b) 12
(c) 13
(d) 15

Q56. A circle has points P, Q, R on a circle in such a way that angle PQR is 60° and angle QRP is 80°. Calculate the angle subtended by an arc QR at the centre.

(a) 40°
(b) 80°
(c) 100°
(d) 120°

Q57. If a number is reduced by 35%, then it becomes 416. By how much percent should the number be increased so that it become 876.8?

(a) 33
(b) 37
(c) 34.2
(d) 38.4

Q58. If $p : q : r = 2 : 3 : 5$, then what will be the ratio of $(p + q + r) : (3p + q – r)$?

(a) 5 : 2
(b) 10 : 17
(c) 9 : 4
(d) 5 : 4

Q59. Sachin lent out Rs. 60000 in two parts, first at 4% and the second at 10% interest. The yearly average interest comes out to be 6.4%. What are the amounts (in Rs.) that were lent at 4% and 10% respectively?

(a) 40000, 20000
(b) 48000, 12000
(c) 36000, 24000
(d) 32000, 28000

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Q60. Average of runs of 133 players of a team is 38. If the average of runs of the male players is 43 and the average of runs of the female players is 24, then what will be the ratio of the total runs of male players and the total runs of female players respectively?

(a) 301 : 60
(b) 7 : 3
(c) 39 : 11
(d) 60 : 207

Q61. A sum of Rs. 4000 becomes Rs. 5800 in 3 years, when invested in a scheme of simple interest. If the same sum is invested in a scheme of compound interest with same yearly interest rate (compounding of interest is done yearly), then what will be the amount (in Rs.) after 2 years?

(a) 4430
(b) 5450
(c) 5290
(d) 4970

Q62. A sells vegetables at a price, 35% more than its cost price and for weighing uses a weight which is 10% less than the article weight. What is total profit percentage?

(a) 50
(b) 35
(c) 45
(d) 55

Q63. A pen is sold at a discount of 36.36%. If the marked price of the pen is Rs. 14300, then what is the approximate selling price of the pen?

(a) 8600
(b) 9100
(c) 10200
(d) 11700

Q64. Which of the following relation is correct?

I. $(\sqrt{15} + \sqrt{7}) < (2\sqrt{22})$

II. $(\sqrt{17} + \sqrt{5}) < (\sqrt{20} + \sqrt{2})$

(a) Only I
(b) Only II
(c) Neither I nor II
(d) Both I and II

Q65. If 60 boys can finish a work in 15 days by working 8 hours a day, then how many hours a day should 72 boys work to finish that work within 20 days?

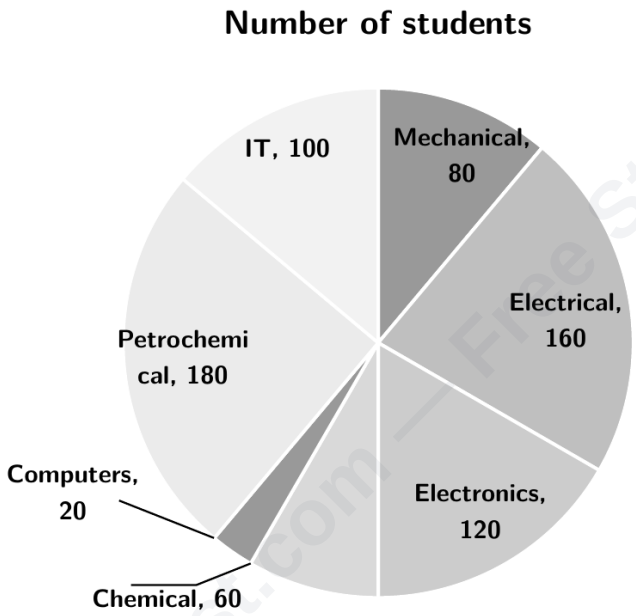
(a) 4
(b) 6
(c) 5
(d) 7

Q66. Two trains are moving in the same direction at the speed of 23 km/hr and 77 km/hr. The time taken by faster train to cross a man sitting in the slower train is 40 seconds. What will be the length (in metres) of the faster train?

(a) 720
(b) 640
(c) 600
(d) 540

Directions

Direction: The pie chart shows the number of students enrolled in the various engineering courses that a certain college offers. Study the diagram and answer the following questions.



Q67. The measure of the central angle of the sector representing the Electrical course is _____ degrees

(a) 120
(b) 90
(c) 100
(d) 80

Q68. What is the total number of students enrolled in the college?

(a) 600
(b) 780
(c) 720
(d) 640

Q69. The most number of students are enrolled in which course?

(a) IT
(b) Electrical
(c) Electronics
(d) Petrochemicals

Q70. If the average annual fees paid by each student to enrol in this college is Rs 1.2 lakhs then what is the total annual fees (in lakhs) collected by this college.

(a) 864
(b) 720
(c) 956
(d) 1080

Q71. The perimeter of a square is 34 cm. Find its area (in cm^2).

(a) 144.5
(b) 82.25
(c) 164.5
(d) 72.25

Q72. If the diameter of a circle is 28 cm, then what will be its circumference (in cm)?

(a) 88
(b) 177
(c) 35
(d) 70

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Q73. Find the volume (in cm^3) of a hemisphere of diameter 7 cm.

(a) 77
(b) 63
(c) 89.83
(d) 54.13

Q74. ΔPQR is right angled at Q. If angle P = 60°, then find the value of (sec R + 1/2).

(a) $(2\sqrt{2} + \sqrt{3})/2$
(b) $(\sqrt{3} + 4)/2\sqrt{3}$
(c) $\sqrt{3} + 2$
(d) 5/6

Q75. In ΔPQR, measure of angle Q is 90°. If cosecP = 17/15, and PQ = 0.8 cm, then what is the length (in cm) of side QR?

(a) 1.7
(b) 2
(c) 2.5
(d) 1.5

GENERAL AWARENESS

Q76. The demand for labour is the same as the _____.

(a) marginal revenue product
(b) marginal physical product
(c) marginal cost
(d) wage

Q77. In which year the Board of Industrial and Financial Reconstruction (BIFR) came into existence?

(a) 1987
(b) 1984
(c) 1989
(d) 1981

Q78. What is called the line that combines the places of the same amount of rainfall?

(a) Isobath
(b) Isohyet
(c) Isozyme
(d) Isoneph

Q79. Which of the following is NOT correctly matched?

(a) Loktak Lake - Manipur
(b) Sambhar Lake - Rajasthan
(c) Lake Lonar - Maharashtra
(d) Hussain Sagar - Karnataka

Q80. Who is credited for the construction of the Red Fort in Delhi ?

(a) Sikandar Lodi
(b) Akbar
(c) Jahangir
(d) Shah Jahan

Q81. When did all the trade unions, except Ahmedabad Textile Labor Union, be unified?

(a) 1930
(b) 1928
(c) 1932

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(d) 1933

Q82. The word 'Tirthankara' is related to which of the following religions?

(a) Buddhism
(b) Christianity
(c) Jainism
(d) Hinduism

Q83. Which country was ranked the World's richest in terms of per capita GDP of countries as per the latest data released by the International Monetary Fund (IMF) on November 18, 2017?

(a) UAE
(b) Qatar
(c) Saudi Arabia
(d) Kuwait

Q84. Who among the following writers was, on August 30, 2017, honoured with the Saraswati Samman for 2016?

(a) Kedarnath Singh
(b) Mahabaleshwar Sail
(c) Rajen Toijmba
(d) Autar Krishen Rahbar

Q85. What is the International Calling Code of Nepal?

(a) 977
(b) 947
(c) 974
(d) 964

Q86. Which of the following statements are CORRECT?

I. Oxides of metals are generally basic.
II. Oxides of non-metals are generally acidic.
III. Non-metals are generally electro-positive.

(a) Only I and II
(b) Only I and III
(c) Only II and III
(d) All I, II and III

Q87. Which one of the following mixtures is homogeneous?

(a) Water and oil
(b) Starch and sugar crystals
(c) Graphite and charcoal
(d) Alloys

Q88. In India, who among the following is the leader of the Council of Ministers and the leader of the Parliament?

(a) Home Minister of India
(b) Prime Minister of India
(c) Defence Minister of India
(d) The President of India

Q89. Which Part of the Indian Constitution deals with Centre-State financial relations?

(a) Part X
(b) Part VIII
(c) Part XII
(d) Part XX

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Q90. Which of the following muscular tissue is multinucleated?

(a) Smooth muscle
(b) Cardiac muscle
(c) Skeletal muscle
(d) Unstriated muscle

Q91. Which of the following plant group has hidden reproductive organs?

(a) Bryophyta
(b) Thallophyta
(c) Pteridophyta
(d) All option are correct.

Q92. Who launched the 'NARI' portal in New Delhi to provide important information about Government schemes?

(a) Sushma Swaraj
(b) Maneka Gandhi
(c) Nirmala Sitharaman
(d) Anupriya Patel

Q93. What is the name of North Korea's most powerful nuclear-capable intercontinental ballistic missile?

(a) Hwasong-15
(b) Hwasong-5
(c) Hwasong-10
(d) Hwasong-20

Q94. In January 2018, SBI planned to raise some money via BASEL-III Bonds. What is the deadline to meet the BASEL-III requirements?

(a) June 2018
(b) December 2018
(c) March 2019
(d) June 2019

Q95. On 11 October, 2017 the Supreme Court criminalized sex with underage wife aged below_____ years.

(a) 15
(b) 18
(c) 21
(d) No option is correct.

Q96. Calculate the pressure (in Pa) if a thrust of 750 N is applied to an area of 5 m^2?

(a) 37.5
(b) 150
(c) 75
(d) 100

Q97. _____ is defined as the rate of doing work.

(a) Energy
(b) Force
(c) Power
(d) Momentum

Q98. _____ kills the germs present in the water.

(a) Evaporation
(b) Rehydration
(c) Boiling
(d) Desiccation

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Q99. Which of the statements given below are correct?

A) In 2018 IPL auctions, Sunrisers Hyderabad retained David Warner.

B) In 2017 Pro Kabaddi League, Rohit Kumar played for Bengaluru Bulls.

C) Lewis Hamilton won the Formula One 2017 Azerbaijan Grand Prix.

(a) Only A
(b) Only B
(c) Both A and B
(d) A, B and C

Q100. In HTML, _____ is a set of links designed as buttons.

(a) Header area
(b) Menu bar
(c) Body of the page
(d) Footer area

ANSWER KEY

1	a	2	c	3	a	4	b	5	c	6	c	7	c	8	b	9	c	10	c
11	b	12	b	13	d	14	b	15	b	16	b	17	d	18	a	19	d	20	c
21	c	22	c	23	b	24	a	25	c	26	d	27	c	28	c	29	d	30	d
31	a	32	a	33	a	34	a	35	d	36	d	37	b	38	c	39	d	40	d
41	a	42	d	43	b	44	a	45	d	46	c	47	c	48	d	49	c	50	c
51	a	52	c	53	c	54	d	55	a	56	b	57	b	58	a	59	c	60	a
61	c	62	a	63	b	64	a	65	c	66	c	67	d	68	c	69	d	70	a
71	d	72	a	73	c	74	b	75	d	76	a	77	a	78	b	79	d	80	d
81	a	82	c	83	b	84	b	85	a	86	a	87	d	88	b	89	c	90	c
91	d	92	b	93	a	94	c	95	b	96	b	97	c	98	c	99	c	100	b

SOLUTIONS

Q1. Answer: (a) humanitarianism

The correct answer is humanitarianism.

Key Points

• Here, the word 'humanitarianism' is correctly spelt.

• humanitarianism'--> having concern for or helping to improve the welfare and happiness of people (a person who works to make other people's lives better)

• For e.g.- She has been recognized as a great humanitarian for her efforts to end world hunger.

Q2. Answer: (c) CBA

The correct answer is CBA.

Key Points

• Part C is the first part as it is a direct continuation of the phrase "On another day I was" as it focusses on what I was doing

• Parts B and A follows C as they deal with what happened when I was travelling. B introduces the 'ticket-checking personnel' and C describes what he did.

Hence the correct order is CBA.

Additional Information

For any general statement(sentence), the order is always Subject-Verb-Object.

Q3. Answer: (a) has taken

The correct answer is has taken.

Key Points

The helping verbs 'has', 'have' and 'had' take V3 with them.

So, options 2 & 3 are eliminated at the outset.

We can see that the event is one that has happened in the recent past and hence would take the present perfect tense. It is the form of the verb used for actions or events that have been completed or have happened in a period of time up to now.

Thus, option 1 is the correct answer.

Correct Sentence: In the post-liberalisation era, urbanisation has taken place at a rapid pace.

Important Points

Present perfect: The present perfect is used to indicate a link between the present and the past. The time of the action is before now but not specified, and we are often more interested in the result than in the action itself.

Q4. Answer: (b) had failed

The correct answer is had failed.

Key Points

We cannot use 'has' with I. The sentence is referring to an event in the past and from the options we can easily infer that 'had failed' is correct.

Q5. Answer: (c) Manifest

The correct answer is Manifest.

Key Points

• Manifest: in a way that is clear or obvious to the eye or mind.

• For e.g.- Their sadness was manifest in their faces

Additional Information

The explanations of the other words:

• Abstruse - difficult to understand; obscure.

• E.g.- The subject is too abstruse to enlarge further upon here

• Clandestine - kept secret or done secretively, especially because illicit.

• E.g.- The group held weekly clandestine meetings in a church.

• Covertly - without being openly acknowledged or displayed; secretly.

• E.g.- Terrorists have been operating covertly in England.

Q6. Answer: (c) Appertain

The correct answer is Appertain.

Key Points

• Appertain: be appropriate or applicable

• Example: The answers generally appertain to improvements in the standard of service.

Additional Information

Let's find out the meaning of the following words:

• Futile - incapable of producing any useful result; pointless

• Example: They made a last futile attempt to make him change his mind.

• Extraneous - existing on or coming from the outside

• Example: When the transmitter pack is turned off no extraneous noise is heard.

• Irrelative - unconnected or unrelated

• Example: These irrelative points only to serve to dilute what is otherwise a strong case.

Q7. Answer: (c) No longer in difficulty or trouble

The correct answer is No longer in difficulty or trouble.

Key Points

Off the hook means to allow (someone who has been caught doing something wrong or illegal) to go without being punished. Option 3 is nearest in meaning to the explanation of the idiom.

For eg. If you ask me, they let him off the hook too easily

Q8. Answer: (b) You should not make plans that depend on something good happening before you know that it has actually happ...

Key Points

The correct answer is You should not make plans that depend on something good happening before you know that it has actually happened.

For eg. Why don't you order the washing machine after you get your first salary? Don't count your chickens before they hatch.

Q9. Answer: (c) over

The correct answer is over.

Key Points

Let's find out the uses of the following prepositions:-

• onto: moving to a location on the surface of.

• above: in extended space over and not touching.

• over: extending directly upwards from

• in: expressing the situation of something that is or appears to be enclosed or surrounded by something else.

Important Points

Ponder: think about (something) carefully, especially before making a decision or reaching a conclusion

Ponder takes the preposition 'over' and 'about' with it.

Q10. Answer: (c) at

The correct answer is at.

Key Points

The 'world at large' is a phrase which means 'most people'.

The other prepositions are neither grammatically suitable nor contextually.

Q11. Answer: (b) choose

The correct answer is choose.

Key Points

Since 'we' is the subject of the sentence, it must be followed by a verb.

Additional Information

Option 1 & 3 are nouns and option 4 is used with a helping verb.

Q12. Answer: (b) important

The correct answer is important.

Key Points

Here, concept of adjective is brought under consideration. Since, "increasingly" is an adverb, and an adverb is used for verb and adjective, the adjective important is the appropriate answer here

Additional Information

• Importances is not a word in the English vocabulary.

• Importance is a noun.

• Importantly is an adverb.

Q13. Answer: (d) with

The correct answer is with.

Key Points

On looking at the above given passage, we observe that it is based upon way of utilizing technology in modern times.

The starter explains that society and people have developed gradually with changing times.

Hence, a relationship is being shown with time here.

Thus, the preposition with should be used.

Q14. Answer: (b) Dilemma

The correct answer is Dilemma.

Key Points

The correct spelling is 'dilemma'.

Dilemma: a difficult situation or problem

Example: The president is clearly in a dilemma about/over how to tackle the crisis.

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Q15. Answer: (b) She said that she would visit the temple.

The correct answer is She said that she would visit the temple.

Key Points

The sentence is given in direct speech with the reporting verb in the simple past tense and the verb in the reported speech in the simple future tense.

When we convert the sentence from the direct to the indirect speech:

• The quotation marks are removed and the that-clause is introduced.

• As the reporting verb is in the past tense, all verbs in the reported speech undergo a backshift in tense. Here, simple present 'will' changes into simple past 'would'

The correct sentence thus formed- She said that she would visit the temple.

Q16. Answer: (b) The cafe was lined by the youngsters.

The correct answer is The cafe was lined by the youngsters.

Key Points

The given sentence is in the active voice with a verb in the simple past tense.

When we convert such a sentence from the active to the passive voice:

• The subject and object of the active voice become the object and subject of the passive voice respectively.

• The past participle is used along with 'by'.

• The rest of the sentence does not undergo any change.

Important Points

Structure for the changed sentence: Object+Past participle+by+subject

Q17. Answer: (d) PQR

The correct answer is PQR.

Key Points

• A sentence does not end with a connector so or adjective environmental.

• Thus, options 1 & 3 are incorrect.

• In option 2, the sequence QP is wrong, because an adjective is followed by a noun, but here we have an article in place of an adjective.

• So, option 2 is incorrect.

Thus, option 4 i.e. PQR is the correct answer.

Q18. Answer: (a) Stuffy

The correct answer is Stuffy.

Key Points

Airy: of a room or building) spacious, well lit, and well ventilated

Stuffy: (of a place) lacking fresh air or ventilation

Thus we can see that 'airy' and 'stuffy' are antonyms.

Additional Information

The explanations of the other words:

• Graceful: having or showing grace or elegance.

• Indifferent: having no particular interest or sympathy; unconcerned.

• Light: not heavy

Q19. Answer: (d) Free

The correct answer is Free.

Key Points

• Arraign: call or bring (someone) before a court to answer a criminal charge

• Free: not or no longer confined or imprisoned

Thus we can see that 'arraign' and 'free' are antonyms.

Additional Information

• Accuse: charge (someone) with an offence or crime

• Charge: formally accuse (someone) of something, especially an offence under law

• Indict: formally accuse of or charge with a crime.

Q20. Answer: (c) Sinuous

The correct answer is Sinuous.

Key Points

Snaky: like a snake in appearance; long and sinuous

Sinuous: having many curves and turns; snaky

Thus we can see that 'snaky' and 'sinuous' are synonyms.

Additional Information

The explanations of the other words:

• Clever: quick to understand, learn, and devise or apply ideas; intelligent

• Mild: not severe, serious, or harsh

• Wild: a natural state or uncultivated or uninhabited region; not tamed

Q21. Answer: (c) Shrewd

The correct answer is Shrewd.

Key Points

Perspicacious: having a ready insight into and understanding of things

Shrewd: having or showing sharp powers of judgement; astute

Thus we can see that 'perspicacious' and 'shrewd' are synonyms.

Additional Information

The explanations of the other words:

• Obscure -not discovered or known about; uncertain; unclear.

• Shrewd - sharp; acute; clever; intelligent

• Indistinct - not clear or sharply defined.

Clearly, option 3 i.e. shrewd gives the most similar meaning.

Q22. Answer: (c) whom

The correct answer is whom

Key Points

Here, the concept of relative pronouns is used.

Let's find out the uses of the following-

• who - the person that; whoever.(related to persons)- subject pronoun.

• whom -used instead of ‘who’ as the object of a verb or preposition- object pronoun

• which - used for a thing or animal ie. any non-living entity

Important Points

Here, 'server' is a person but not defined male or female. So, options 2 & 4 are eliminated. And, it is used after preposition, so shows it is an object pronoun.

Thus, option 3 i.e. whom is the correct answer.

Q23. Answer: (b) go through

The correct answer is go through.

Key Points

• Go through: search through or examine something, especially methodically

• Example: The deal went through as agreed.

Additional Information

The explanations of the other words and phrases:-

• Set out: begin a journey

• Example: We set out from New York on Friday for Egypt.

• Look up: search for and find a piece of information in a book or database

• Example: If you don't know what the word means, look it up in a dictionary.

• Imagine: form a mental image or concept of

• Example: I can't imagine what he wants from us.

Important Points

This question tests your concept and knowledge of phrasal verbs.

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A phrasal verb is a combination of words (a verb + a preposition or verb +adverb) that when used together, usually take on a different meaning to that of the original verb.

For eg. Run into, Pick up, Turn on, etc.

Q24. Answer: (a) 1

The correct answer is 1.

Key Points

Here, the concept of subject-verb agreement is touched upon.

Since 'a balanced diet' is a singular subject, a singular verb should follow it.

Thus, we need to replace provide with provides to make the sentence correct.

Hence, option 1 is the correct answer.

The correct sentence: A balanced diet is one that provides an adequate intake of energy and nutrients for the maintenance of the body and good health.

Q25. Answer: (c) 3

The correct answer is 3.

Key Points

• 'we promote peace and happiness to all.'

• Here, the concept of the preposition has been touched upon.

• The correct preposition to follow the verb 'promote' would be 'among'.

• E.g.- The conquered territories were portioned out among the victors.

Correct sentence: 'When we respect everyone's spiritual identity, we promote peace and happiness among all.'

Hint

From the word 'all' in the sentence, we can gauge that the correct preposition would be 'among'.

Q26. Answer: (d) Perimeter : Rhombus

Sum of the sides of Hexagon is known as Perimeter. Similarly, sum of the sides of Rhombus is also known as Perimeter.

Note: Here on RHS geometrical shape is given. In case of Circle : Circumference, Circle is given on LHS. So cannot be the correct option.

Thus the related pair is Perimeter : Rhombus.

Q27. Answer: (c) 24

The logic here is as follows,

45 → 4 × 5 = 20

Similarly,

46 → 4 × 6 = 24

Thus 46 is related to 24.

Q28. Answer: (c) RVX

The logic here is as follows,

I + 7 = P

M + 7 = T

O + 7 = V

Similarly,

K + 7 = R

O + 7 = V

Q + 7 = X

Thus, KOQ is related to RVX.

Q29. Answer: (d) Crocodile - Reptile

The logic here is as follows,

On LHS class of animal is given and on RHS animal belonging to that class is given.

But in Crocodile - Reptile, on LHS animal is given and on RHS his class.

Thus, the pair Crocodile - Reptile is the odd word pair.

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Q30. Answer: (d) 36 - 42

The logic here is as follows,

1) 58 - 62 → 62 - 58 = 4

2) 18 - 22 → 22 - 18 = 4

3) 24 - 28 → 28 - 24 = 4

4) 36 - 42 → 42 - 36 = 6

Thus, the odd number pair is 36 - 42.

Q31. Answer: (a) EHL

The logic here is as follows,

1) EHL → E + 3 = H, H + 4 = L

2) JMP → J + 3 = M, M + 3 = P

3) SVY → S + 3 = V, V + 3 = Y

4) QTW → Q + 3 = T, T + 3 = W

Thus, the odd letters are EHL.

Q32. Answer: (a) Javelin

The correct dictionary order is as follows,

5) Jacket

4) Jagged

1) Jailor

3) Jam

2) Javelin

Thus, the last word is Javelin.

Q33. Answer: (a) 1322

The logic here is as follows,

6578 - 4381 = 2197 = 13^3

4381 - 2653 = 1728 = 12^3

So the next number should have difference of 1331 = 11^3

So 2653 - 1331 = 1322

That is, 2653 - 1322 = 1331

1322 - 322 = 1000 = 10^3

Thus, the missing number is 1322.

Q34. Answer: (a) ZB

The logic here is as follows,

F + 5 = K, K + 5 = P, P + 5 = U, U + 5 = Z

H + 5 = M, M + 5 = R, R + 5 = W, W + 5 = B

Thus, the next term in the series is ZB.

Q35. Answer: (d) Cannot be determined

Six boys are sitting in a row facing south.

1) Gaurav is second to the right of Akash who is at one of the end.

Right End _ _ _ Gaurav _ Akash Left End

2) Prem is at fourth position to the left of Raman.

Right End Raman _ _ Gaurav Prem Akash Left End

3) Jatin and Nitin sit together.

Right End Raman Jatin/Nitin Gaurav Prem Akash Left End

As the positon of Jatin is not confirm, we cannot determine the number of boys that are sitting to the left of Nitin.

Q36. Answer: (d) Road

The word Road cannot be formed as there is no letter ‘o’ in the given word Hardship.

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Q37. Answer: (b) 21

The logic here is as follows,

CAB = 3 + 1 + 2 = 6

LAN = 12 + 1 + 14 = 27

Similarly,

FAN = 6 + 1 + 14 = 21

Thus, FAN is coded as 21.

Q38. Answer: (c) 67

Symbols	÷	•	•	×
Meaning	•	×	÷	•

Given expression: 17 - 8 + 2 × 9 ÷ 8

Changing operators: 17 × 8 ÷ 2 - 9 + 8

Applying BODMAS rule we get,

17 × 8 ÷ 2 - 9 + 8 = 17 × 4 - 9 + 8 = 68 - 9 + 8 = 67

Thus, answer is 67.

Q39. Answer: (d) • and ÷

Given expression: 17 × 6 + 2 - 9 ÷ 2 = 44

Let's check each option:

1) - and +

Expression becomes:

17 × 6 - 2 + 9 ÷ 2

= 102 - 2 + 4.5

= 104.5

2) ÷ and x

Expression becomes:

17 ÷ 6 + 2 - 9 × 2

= 2.8 + 2 - 18

= -13.2

3) × and -

Expression becomes:

17 - 6 + 2 × 9 ÷ 2

= 17 - 6 + 9

= 20

4) + and ÷

Expression becomes:

17 × 6 ÷ 2 - 9 + 2

= 51 - 9 + 2

= 44

Thus, after interchanging + and ÷ the expression becomes correct.

Q40. Answer: (d) 10

The logic here is as follows,

1!9 → 1 - 9 = -8, -8 × 10 = -80

2!8 → 2 - 8 = -6, -6 × 10 = -60

8!1 → 8 - 1 = 7, 7 × 10 = 70

Similarly,

3!2 → 3 - 2 = 1, 1 × 10 = 10

Thus 3!2 equals to 10.

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Q41. Answer: (a) QPQPQPRQP

Here the series have letters ‘Q’ and ‘P’ placed alternately along with the letter ‘R’ which shifts 1 position towards right in each next term.

In the given last term ‘R’ position is 6^(th), so in next term ‘R’ will be at 7^(th) position.

Thus, the next term in the series will be QPQPQPRQP.

Q42. Answer: (d) 1 km South

The distance covered by the cart is as shown below,

Thus the vendor is 1 km towards south from his starting point.

Q43. Answer: (b) Only conclusion II follows

The least possible Venn diagram for the given statements is as follows,

Conclusion:

I. No bread are pizzas → False (all those pizzas that are pancakes are bread)

II. Some pizzas are bread → True (all those pizzas that are pancakes are bread)

Thus, only statement II follows.

Q44. Answer: (a) ACH

Set of letters represents Authors who are either Food stylists or Potters is represented as follows;

Thus, the answer is ACH.

Q45. Answer: (d) JRW

The logic here is as follows,

H - 6 = B, B - 6 = V, V - 6 = P, P - 6 = J

P - 6 = J, J - 6 = D, D - 6 = X, X - 6 = R

U - 6 = O, O - 6 = I, I - 6 = C, C - 6 = W

Thus, the next term in the series is JRW.

Q46. Answer: (c) 20

The logic here is as follows,

29 - 2 = 27,

27 - 3 = 24,

24 - 4 = 20,

20 - 5 = 15,

15 - 6 = 9

Thus, the missing number in the series is 20.

Q47. Answer: (c) (15, 28, 25)

The pattern followed here is:

4 + 9 = 13 and 13 + 4 = 17

6 + 9 = 15 and 15 + 4 = 19

15 + 10 = 25 and 25 + 3 = 28

11 + 9 = 20 and 20 + 4 = 24

Hence, (15, 28, 25) is the odd one out.

Q48. Answer: (d) [figure]

Thus image at option 4 is the mirror image.

Q49. Answer: (c) [figure]

In the given open cube following faces will be opposite to each other,

1)

and

will be opposite to each other

2)

and

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will be opposite to each other

3)

and

will be opposite to each other

Thus Cube at option 3 cannot be formed.

Q50. Answer: (c) 24, 31, 96, 14

Let's check all the options,

1) 20, 67, 21, 78 → CRLP

2) 24, 66, 34, 79 → BOEO

3) 24, 31, 96, 14 → BANE

4) 23, 78, 11, 99 → LPKX

Thus, the set '24, 31, 96, 14' represents the word BANE.

Q51. Answer: (a) 7/8

Given:

Sum of the fraction (a) and its reciprocal (1/a) is 113/56

Calculation:

Let the fraction be (x/y) (Denote this by 'a')

$a + (1/a) = 113/56$

$\Rightarrow (a^2 + 1)/a = 113/56$

$\Rightarrow 56a^2 - 113a + 56 = 0$

$\Rightarrow 56a^2 - 49a - 64a + 56 = 0$

$\Rightarrow 7a (8a - 7) - 8 (8a - 7) = 0$

$\Rightarrow (7a - 8) (8a - 7) = 0$

$\Rightarrow (7a - 8) = 0$ or $(8a - 7) = 0$

$\Rightarrow a = 7/8$ or $8/7$

Therefore Required Fraction = (7/8)

Shortcut TrickBy hit and trial method.

Considering option(1), we have

Fraction = 7/8

It's reciprocal = 8/7

Sum = 7/8 + 8/7 = (49 + 64)/56 = 113/56 satisfied

So, option 1 is correct answer.

Q52. Answer: (c) 25, 27, 29

Given:

The sum of the squares of three consecutive odd numbers

Calculation:

If 'n' is an odd number, then let the three consecutive odd numbers be (n - 2), n, (n + 2)

From the given condition, $(n - 2)^2 + n^2 + (n + 2)^2 = 2195$

$(n^2 - 4n + 4) + n^2 + (n^2 + 4n + 4) = 2195$

$\Rightarrow 3n^2 + 8 = 2195$

$\Rightarrow 3n^2 = 2195 - 8 = 2187$

$\Rightarrow n^2 = 2187/3 = 729$

$\Rightarrow n = \sqrt{729} = 27$

So, the numbers are (27 - 2), 27, (27 + 2) = 25, 27, 29

Q53. Answer: (c) 64

Calculation:

Substituting the value of x = 8 and y = 2 in the given equation we have $8 + (4 \times 2) - 2k = 0$

$\Rightarrow 8 + 8 - 2k = 0$

$\Rightarrow 2k = 16$

=> k = (16/2) = 8

Value of $k^2 = 8^2 = 64$

Therefore Required value = 64

Q54. Answer: (d) I, II, IV

From the equation, notice that if both x and y are negative, then both 7x and 12y will be negative

The sum of two negative values (7x and 12y) cannot give a positive result (16)

So, the given line does not pass through the third quadrant only, where both x and y are negative

Therefore Required answer = Quadrant (I, II, IV)

In equation 7x + 12y = 16

Put x = 0, then 12y = 16

=> y = 4/3

Put y = 0, then 7x = 16

=> x = 16/7

Plotting the graph for the points (0, 4/3) and (16/7, 0)

Therefore The equation 7x + 12y = 16 passes through the I, II, IV quadrants

Q55. Answer: (a) 10

Calculation:

Let P be the mid-point of AB, So AP = PB

OP = 12 cm = distance of chord from centre and AO = 13 cm = Radius

From right-angled triangle OPA, by Pythagoras theorem,

$=> AO^2 = OP^2 + AP^2$

$=> AP^2 = AO^2 - OP^2$

$=> AP^2 = 169 - 144$

$=> AP^2 = 25$

=> AP = 5 cm

Now, AB = AP + PB = AP + AP = 5 + 5 = 10 cm

Length of the chord (Full) = 2 × 5 = 10 cm

Therefore Required length = 10 cm

Q56. Answer: (b) 80°

Shortcut Trick

In ΔPQR, the sum of all angles is always 180°.

angle QPR = 180° − (60° + 80°) = 40°

The angle subtended by an arc at the centre is twice the angle subtended by it at any point on the remaining part of the circle.

Angle at centre subtended by arc QR = 2 × 40° = 80°.

Therefore The correct answer is 80°.

Alternate Method

O

P

Q

R

40°

60°

80°

80°

Given:

Points P, Q, and R lie on the circle with centre O.

angle PQR = 60° and angle QRP = 80°

Formula Used:

Sum of all interior angles of a triangle is always 180°.

The angle subtended by an arc at the centre is double the angle subtended by it at any remaining part of the circle.

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Calculations:

In ΔPQR, the sum of all interior angles is 180°.

=> angle PQR + angle QRP + angle QPR = 180°

=> 60° + 80° + angle QPR = 180°

=> 140° + angle QPR = 180°

=> angle QPR = 180° − 140°

=> angle QPR = 40°

Now, arc QR subtends angle QPR at the circumference and angle QOR at the centre.

Using the circle property, the central angle is twice the inscribed angle.

=> angle QOR = 2 × angle QPR

=> angle QOR = 2 × 40°

=> angle QOR = 80°

Therefore The correct answer is 80°.

Additional Information

Angle Subtended by an Arc

The angle subtended by an arc at the centre is strictly double the angle subtended by it at any point on the remaining part of the circle.

Angles in the Same Segment

Angles subtended by the same arc at any point on the alternate segment of the circle are always equal to each other.

Angle in a Semicircle

The angle subtended by a diameter at any point on the circumference of the circle is always a right angle (90°).

Cyclic Quadrilateral Property

If a quadrilateral is inscribed inside a circle, the sum of its opposite angles is always exactly 180°.

Q57. Answer: (b) 37

Calculation:

Let the number be ‘X’

If the number is reduced by 35%, then X -- (35% of X) = 416

=> X - (35/100) X = 416

=> (65/100) X = 416

=> X = (100/65) × 416 = 640

To find [640 + (what percent of 640)] = 876.8

Required Percentage = (876.8 - 640)/640 = (236.8/640) × 100% = 0.37 × 100% = 37%

Therefore Required answer = 37%

Shortcut TrickIf no. reduced by 35%, it becomes 416

=> 65% = 416

=> 100% = (416/65) × 100 = 640

Now, Increase = 876.8 - 640 = 236.8

% Increase = (236.8/640) × 100 = 37%

Q58. Answer: (a) 5 : 2

Calculation:

Let the values of p, q, r be 2k, 3k, 5k respectively (Where ‘k’ is some arbitrary constant)

Substituting the values in the given expression, we get

(2k + 3k + 5k)/[(3 × 2k) + 3k - 5k) = 10k/(6k + 3k - 5k) = 10k/4k = (5/2)

Therefore Required Ratio = 5/2

Q59. Answer: (c) 36000, 24000

Calculation:

Using the concept of allegations formula,

(Amount lent at 10%)/ (Amount lent at 4%) = (Average interest - Lesser Interest)/ (Higher Interest - Average Interest)

=> (Amount lent at 10%)/ (Amount lent at 4%) = (6.4 - 4)/(10 - 6.4) = 2.4/3.6 = 24/36 = 2/3

=> Amount lent at 10% interest = 60000 × [(2/(2 + 3)] = 60000 × (2/5) = 12000 × 2 = Rs. 24000

=> Amount lent at 4% interest = Rs. (60000 - 24000) = Rs. 36000

Therefore Required answers are 36000, 24000

Q60. Answer: (a) 301 : 60

Given:

Average of the runs of 133 players of a team is 38

Average of runs of the male players is 43 and the average of runs of the female players is 24.

Formula used:

Sum of the runs of the team (Total Runs) = Average × Number of players in the Team

Calculations:

Total Runs scored by the team = 38 × 133 = 5054

Let the number of male players be 'M' and number of female players be 'F'

Number of runs scored by the male and female players together = 43M + 24F

=> 43M + 24F = 5054 ----(1)

=> M + F = 133 ----(2)

Substituting M = (133 - F) in Equation 1, we get

43 (133 - F) + 24F = 5054

=> 5719 - 43F + 24F = 5054

=> 43F - 24F = 5719 - 5054

=> 19F = 665

=> F = 665/19 = 35

M = 133 – 35 = 98

Ratio of the total runs of Male to Female players = (98 × 43)/(35 × 24) = 301/60

Therefore Required Ratio = 301/60

Shortcut TrickUsing allegations method, we get

Total number of players = 133

=> 19 units = 133

=> 1 units = 7

So, number of men player's = 14 units = 14 × 7 = 98

Total runs of men player's = 43 × 98 = 4214

Again, no. of female players = 5 × 7 = 35

Total runs of female players = 35 × 24 = 840

Therefore Required ratio = 4214 : 840 = 301 : 60

Q61. Answer: (c) 5290

Given:

Principal (P) = Rs. 4000,

Amount (A) = Rs. 5800,

Time Period (T) = 3 years

Formula used:

S.I. = P × R × T/100

where P → Principal

R → Rate of interest

T → Time period

In case of Compound Interest

Amount = P [1 + (R/100)]T

Calculation:

S.I. = 5800 - 4000 = Rs.1800

=> S.I. = PRT/100

=> 1800 = (4000 × R × 3)/100

=> R = 15%

Amount in case of Compound Interest

=> 4000 [1 + (15/100)]² = 4000 [1 + 0.15]²

=> 4000 (1.15)² = 4000 × 1.3225 = Rs. 5290

Therefore Final Amount = Rs. 5290

Shortcut TrickRatio of Principal to Amount = 4000 : 5800 = 20 : 29

So, Interest % for 3 years = 9/20 × 100 = 45%

Interest % for 1 years = 45%/3 = 15%

Now, In case of C.I., Ratio of principal to Amount

15% = 3/20

1st year = 20 : 23

2nd year = 20 : 23

=> 20 × 20 units = Rs 4000

=> 1 unit = Rs. 10

=> 23 × 23 units = 10 × 23 × 23 = Rs.5290

Q62. Answer: (a) 50

Given:

A sells vegetables at a price, 35% more than its cost price and for weighing uses a weight which is 10% less than the article weight

Calculation:

Let the cost of 1 kg vegetable = Rs. 100

But the seller sells 900 gm. Instead of 1 kg which costs Rs. 90

Given, Profit% = 35%

So, selling price = 100 + (35/100) × 100 = Rs. 135

Actual profit percentage = [(135 – 90)/90] × 100 = 50%

Therefore the correct answer is 50%.

Let C.P of 1000 gm be Rs. 100

=> S.P of 1000 gm = Rs. 100 × (135/100) = Rs. 135

Now, he uses a weight which is 10% less

So, he uses weight = 1000 gm × (90/100) = 900 gm

So, Cost price of 900 gm = Rs.90

Now, Profit = Rs. (135 – 90) = Rs. 45

Profit % = (45/90) × 100%

=> 50%

Therefore The overall profit % is 50%

Q63. Answer: (b) 9100

Given:

Marked Price = Rs. 14300,

Discount = 36.36% = 4 × 9.09% = 4 × (1/11) = 4/11

Formula used:

S.P = Marked Price (1 - Discount%)

Calculation:

S.P = 14300 {1 - (4/11)}

=> 14300 × (7/11)

=> 1300 × 7 = Rs. 9100

Therefore Selling Price = Rs. 9100

Q64. Answer: (a) Only I

Calculation:

Squaring all the terms in the given problem

(√15 + √7)² = (15 + 7 + 2√15 × √7) = (22 + 2√105) = 22 + (2 × 10.25) = 22 + 20.5 = 42.5

(2√22)² = 4 × 22 = 88

(√17 + √5)² = (17 + 5 + 2√17 × √5) = (22 + 2√85) = 22 + (2 × approx. 9.2) = 22 + 18.4 = 40.4

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$(\sqrt{20} + \sqrt{2})^2 = (20 + 2 + 2\sqrt{20} \times \sqrt{2}) = (22 + 2\sqrt{40}) = 22 + (2 \times \text{approx. } 6.4) = 22 + 12.8 = 34.8$

Option 1:

We can see from above that $(2\sqrt{22}) > (\sqrt{15} + \sqrt{7})$

Option 2:

$(\sqrt{17} + \sqrt{5}) < (\sqrt{20} + \sqrt{2})$ (This is incorrect)

Therefore Correct Option is 1

Q65. Answer: (c) 5

Concept used:

Using the concept of man-days,

$(M1 \times D1 \times H1) = (M2 \times D2 \times H2)$

where 'M' represents the number of men,

D = number of Days,

H = number of Hours

Calculation:

Substituting all the values in the formula,

$(60 \times 15 \times 8) = (72 \times 20 \times H)$

$\Rightarrow H = (60 \times 15 \times 8)/(72 \times 20) = 5$

Therefore Required number of hours = 5

Q66. Answer: (c) 600

Given:

Speed of 1st train = 23 km/hr

Speed of 2nd train = 77 km/hr

Time taken by 2nd train to cross the 1st train = 40 sec

Formula used:

If two objects are moving in the same direction with speeds S1 and S2 respectively, then

Relative Speed = S1 - S2

If two objects are moving in the opposite direction with speeds S1 and S2 respectively, then

Relative Speed = S1 + S2

Distance = Speed × Time

Calculation:

Relative speed = (77 - 23) = 54 kmph = $54 \times (5/18)$ m/sec = 15 m/sec

When the faster train crossed the slower train, Distance covered is the length of the train.

Distance = 15×40 = 600 meters

Therefore Length of the faster train = 600 meters

Q67. Answer: (d) 80

Calculation:

Actual angle made by all the students (Number of students = 720) at the centre of the circle = 360°

Measure of the central angle of the sector representing the Electrical course

$\Rightarrow 160 \times (360°)/720 = 80°$

Therefore Required answer = 80°

Shortcut TrickHere, Ratio of Electrical course : Total students

$\Rightarrow 160 : 720 = 2 : 9 = 2/9$

Here, 9 units = 360°

=> 1 units = 40^?

=> 2 units = 80^?

Q68. Answer: (c) 720

Calculation:

Total number of students enrolled in the college = Sum of number of students in (IT + Mechanical + Electrical + Electronics + Chemical + Computers + Petrochemicals)

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=> 100 + 80 + 160 + 120 + 60 + 20 + 180 = 720

Therefore Required answer = 720

Q69. Answer: (d) Petrochemicals

Calculation:

From the given Pie chart, the most number of students enrolled is 180 which is for Petrochemicals course

Therefore Required answer = Petrochemicals

Q70. Answer: (a) 864

Calculation:

Total number of students = 720

Average annual fees paid by each student to enroll in this college is Rs 1.2

Total annual fees (in Rs lakhs) collected by the college

=> 720 × 1.2 = 864 lakhs

Therefore Correct option is 1

Q71. Answer: (d) 72.25

Given:

The perimeter of the square = 34 cm

Formula used:

Perimeter of a square = 4a

Area of a square = a^2

where a → side of a square

Calculation:

Perimeter = 34

=> a = 34/4 = 8.5 cm

Area of the square = $8.5^2 = 72.25$ cm²

Therefore Required area = 72.25 cm²

Q72. Answer: (a) 88

Given:

Diameter of a circle = 28 cm

Formula used:

Circumference of a circle = 2πr

Diameter (d) = 2r

where r → radius of a circle

Calculation:

Circumference = πd = (22/7) × 28 = 22 × 4 = 88 cm

Therefore Correct option is 1

Q73. Answer: (c) 89.83

Given:

Diameter of the hemisphere = 7 cm

Radius = 7/2 = 3.5 cm

Formula used:

Volume of a hemisphere = (2/3) πr3

where r → radius of a hemisphere

Calculation:

Volume of a hemisphere = $2/3 \times (22/7) \times 3.5^3 = (44/21) \times 3.5^3 = 89.83$ cm³

Therefore Required Volume = 89.83 cm³

Q74. Answer: (b) (√3 + 4)/2√3

Given:

angle P = 60°

Concept used:

sum of angles of triangle = 180°

i.e, (angle P + angle Q + angle R = 180°)

Sec 30° = 2/√3

Calculation:

In triangle PQR, angle Q = 90°, angle P = 60°

=> angle R = 30°

Therefore Sec 30° + 1/2 = 2/√3 + 1/2 = (4 + √3)/2√3

Q75. Answer: (d) 1.5

Calculation:

We know that cosecP = hypotenuse/perpendicular = PR/RA = 17/15

Let the sides QR and PR be 15X and 17X respectively

For the right-angled triangle, as per Pythagoras theorem,

$QR^2 + PQ^2 = PR^2$

$=> (15X)^2 + (PQ)^2 = (17X)^2$

$=> PQ^2 = 289X^2 - 225X^2 = 64X^2$

$=> PQ = \sqrt{64X^2} = 8X$

Given PQ = 0.8 = 8X

=> X = 0.8/8 = 0.1 cm

Length of QR = 15x = (15 × 0.1) = 1.5 cm

Therefore QR = 1.5 cm

Q76. Answer: (a) marginal revenue product

The correct answer is marginal revenue product

Key Points

• Economic theory states that a profit maximizing firm will hire workers up to the point where the marginal revenue product is equal to the wage rate.

• Because it is not efficient for a firm to pay its workers more than it will earn in revenues from their labors. Therefore, demand for labour is the same as the marginal revenue product.

Q77. Answer: (a) 1987

The correct answer is 1987

Key Points

• The Board for Industrial and Financial Reconstruction (BIFR) was an agency of the Government of India.

• Its objective is to determine sickness of industrial companies and to assist in reviving those that may be viable.

• The BIFR was established under The Sick Industrial Companies (Special Provisions) Act, 1985 (SICA).

• The board was set up in January 1987 and became functional as of 15 May 1987.

Q78. Answer: (b) Isohyet

The correct answer is Isohyet

Key Points

Word	Meaning
Isobath	Isobath is an imaginary line or a line on a map or chart that connects all points having the same depth below a water surface.
Isohyet	Isohyet is a line drawn on a weather map connecting points that receive equal amounts of precipitation or rainfall during a given period of time.
Isozyme	Isoenzymes (also called isozymes) are alternative forms of the same enzyme activity that exist in different proportions in different tissues.
Isoneph	Isoneph is a line on a map connecting points that have the same average percentage of cloudiness.

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Q79. Answer: (d) Hussain Sagar - Karnataka

The correct answer is Hussain Sagar - Karnataka

Key Points

• Loktak Lake is the largest freshwater lake in Northeast India and is famous for the phumdis floating over it. The lake is located near Moirang in Manipur state, India

• The Sambhar Salt Lake, India's largest inland Salt Lake, is located 96 km southwest of the city of Jaipur and 64 km northeast of Ajmer along National Highway 8 in Rajasthan.

• Lonar Lake is a notified National Geo-heritage Monument saline soda lake located at Lonar in Buldhana district, Maharashtra, India.

• Hussain Sagar is a heart-shaped lake in Hyderabad built by Ibrahim Quli Qutb Shah and named after Hussain Shah Wali. It is spread across an area of 5.7 square kilometers and is fed by River Musi.

Q80. Answer: (d) Shah Jahan

The correct answer is Shah Jahan

Key Points

• Red Fort in Delhi was built by the Mughal Emperor Shah Jahan, his era was considered as the 'Golden Age' for architectures. Some of the popular structures built during his rule are as follows:

• Red Fort or Lal Quila, Delhi

• Taj Mahal, Agra

• Jama Masjid, Delhi

• Jama Masjid, Agra

Q81. Answer: (a) 1930

The correct answer is 1930.

Key Points

• In1930s, the trade union movement in India faced unfavourable situations aggravated by economic depression.

• Although, unity was restored in the movement when all the trade unions, except Ahmedabad textile Labor, be unified in 1930.

Additional Information

• India's trade union movement was started by Narayan Meghaji Lokhande.

• He made a significant contribution to preserving religious harmony during the 1893 Hindu-Muslim riots.

• He was, in a real sense, the founder of the Trade Union Movement.

• He spent his entire life working to improve a lot of the working class.

Q82. Answer: (c) Jainism

The correct answer is Jainism.

Key Points

• In Jainism, a Tirthankara is a saviour and the spiritual teacher of the dharma (righteous path).

• According to Jains, a Tirthankara is a rare individual who has conquered the samsāra, the cycle of death and rebirth on his own and has made a path for others to follow.

Additional Information

• Tirthankaras are considered to be the embodiment of compassion and non-violence.

• Jains believe that there have been 24 Tirthankaras in the current cosmic age.

• Each Tirthankara has a unique emblem and symbol that represents them, such as a lion, elephant, and so on.

• Tirthankaras are believed to have attained enlightenment through their own efforts and not through any external help.

• Tirthankaras are not considered gods, but rather role models for Jains to follow to achieve spiritual liberation.

• Jains believe that by following the teachings of Tirthankaras, one can attain the ultimate goal of Jainism, which is liberation from the cycle of birth and death.

Q83. Answer: (b) Qatar

The correct answer is Qatar.

Key Points

• Qatar, a small Middle Eastern country ranks as the richest country in the world in terms of per capita GDP, giving it a total GDP of approximately $124,930 per person and making it the richest country in the world as of 2017, according to the IMF.

• Whereas the per capita GDP of UAE is $37,226, Saudi Arabia is $21,120 and Kuwait is $ 26,687.

Additional Information

• International Monetary Fund

• International Monetary Fund headquarters is located in Washington D. C in the United States.

• International Monetary Fund is an Organization of 190 countries.

• It is working to secure financial stability, facilitate international trade, promote high employment and economic growth and reduce poverty around the world.

• The IMF was founded in July 1944 at the United Nations Bretton Woods Conference in New Hampshire, United States.

Q84. Answer: (b) Mahabaleshwar Sail

The correct answer is Mahabaleshwar Sail.

Key Points

• Mahabaleshwar Sail is an Indian author who has been honoured with the Saraswati Samman, 2016 for his novel 'Hawthorn'.

• The novel "Hawthan", published in 2009, captures the cultural lives of the traditional potter community in Goa.

• He was awarded the Sahitya Akademi Award in the Konkani language for his short story collection ‘Taranga’ in 1993.

Additional Information

• Saraswati Samman

• The Saraswati Samman is an annual award for outstanding prose or poetry literary works in any of the 22 languages of India listed in Schedule VIII of the Constitution of India.

• It is named after an Indian goddess of knowledge.

• The Saraswati Samman was instituted in 1991 by the K. K. Birla Foundation. It consists of Rs. 15,00,000, a citation, and a plaque.

• Candidates are selected from literary works published in the previous ten years by a panel that included scholars and former award winners.

• The inaugural award was given to Harivanshrai 'Bachchan' for his four-volume autobiography, Kya Bhooloon Kya Yaad Karoon, Needa Ka Nirman Phir, Basere Se Door, and Dashdwar se Sopan Tak.

• So far, 31 awardees have been honoured with Saraswati Samman for their work in different languages. Recently, Hindi writer “Prof. Ramdarsh Mishra” was honoured with Saraswati Samman for 2021 his collection of poems ‘In Toh Here Hoon’ on April 7, 2022.

Q85. Answer: (a) 977

The correct answer is 977.

Key Points

• The international calling code of Nepal is 977.

• To make international calls there are some prefix codes that need to be mentioned before the phone numbers to place calls internationally. These codes are called International calling codes

• The international calling code of India is 91.

Additional InformationOther important codes and their countries:

Code	Country
977	Nepal
947	Michigan
974	Qatar
964	Iraq

Q86. Answer: (a) Only I and II

The correct answer is Only I and II.

Key Points

• Metallic oxides are basic in nature because they react with dilute acids to form salt and water. Hence, Statement I is correct.

• Non-metallic oxides are acidic in nature since they react with water to form metal hydroxides which are alkaline in nature. Hence, Statement II is also correct.

• Non-metals are generally electronegative in nature because these metal hydroxides release OH- ions in solution. Hence, Statement III is incorrect.

Q87. Answer: (d) Alloys

The correct answer is Alloys.

Key Points

• An alloy is considered a homogeneous mixture because, by definition, a homogeneous mixture has the same uniform appearance and composition throughout.

• Since an alloy is a mixture of two or more metals or a mixture of a metal with some other element, and these mixtures are uniform throughout, they fit the definition of being homogeneous.

Additional InformationOther mixtures and their nature:

Mixture	Nature
Water and oil	Heterogeneous mixture
Starch and sugar crystals	Heterogeneous mixture
Graphite and charcoal	Pure substance
Alloys	Homogenous mixture

Q88. Answer: (b) Prime Minister of India

The correct answer is Prime Minister of India.

Key Points

• The Prime Minister of India is the leader of the executive of the Government of India.

• The prime minister is also the chief adviser to the President of India and head of the Council of Ministers.

• She/he can be a member of any of the two houses of the Parliament of India, the Lok Sabha (House of the People) and the Rajya Sabha (Council of the States).

• The president can exercise his powers in his role as the head of the legislature only upon the advice of the Prime Minister and his Union Council of Ministers.

Q89. Answer: (c) Part XII

The correct answer is Part XII.

Key Points

• Part XII is a compilation of laws pertaining to the constitution of India as a country and the union of states that it is made of.

• This part of the constitution consists of Articles on financial relations between the Union and States.

Additional Information

The Parts of the Indian constitution are:

Parts	Articles	Details
Part X	244 to 244A	The Scheduled and Tribal Areas.
Part VIII	239 to 242	The Union Territories.
Part XII	264 to 300A	Finance, Property, Contracts, and Suits.
Part XX	368	Amendment of the Constitution.

Q90. Answer: (c) Skeletal muscle

The correct answer is Skeletal muscle.

Key Points

• Multinucleation means the presence of more than one nucleus.

• Both skeletal muscles and cardiac muscles are striated, but skeletal muscle fibres are multinucleated.

• Whereas, the cardiac muscle fibre is uninucleated.

Additional Information

• Muscles play an active role in all the movements of the body.

• Muscles are of three types based on their position or location in the body:

• Skeletal muscles or Striated muscle

• Visceral muscles or Smooth muscles

• Cardiac muscles

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Skeletal muscle:

• Skeletal muscle fibres are cylindrical, multinucleated, striated, and under voluntary control.

Smooth muscle:

• Smooth muscle cells are spindle-shaped, have a single, centrally located nucleus, and lack striations. They are also called involuntary muscles.

Cardiac muscle:

• Cardiac muscle fibre contains a single nucleus and is striated, or striped.

Unstriated muscled:

• Unstriated muscled are found inside organs like the blood vessels, stomach, and intestines.

Q91. Answer: (d) All option are correct.

The correct answer is All option are correct.

Key Points

• Bryophytes are an informal group consisting of three divisions of non-vascular land plants, liverworts, hornworts, and mosses. Bryophytes produce enclosed reproductive structures (gametangia and sporangia), but they do not produce flowers or seeds. They reproduce via spores.

• The Thallophytes are a polyphyletic group of non-mobile organisms traditionally described as "lower plants". Thallophytes have a hidden reproductive system together with ferns.

• A pteridophyte is a vascular plant that disperses spores (and lacks seeds) because they produce neither flowers nor seed. The sexuality of pteridophyte gametophytes can be classified into Dioecious and Monoecious.

Q92. Answer: (b) Maneka Gandhi

The correct answer is Maneka Gandhi.

Key Points

• Ex-Union Minister of Women & Child Development Maneka Sanjay Gandhi 2 January 2018 inaugurated the online portal 'NARI' for women's empowerment.

• NARI stands for 'National Repository of Information for Women'.

• The portal contains information about schemes being run by both Central as well as States Governments.

• The portal carries details on 350 different central schemes for women and will be updated from time to time.

Important PointsMenka Gandhi

• She is an Indian politician, animal rights activist, and environmentalist.

• She is a member of the Lok Sabha, the lower house of the Indian parliament, and a member of the Bharatiya Janata Party (BJP).

• Gandhi authored a number of books in the areas of etymology, law, and animal welfare.

Q93. Answer: (a) Hwasong-15

The correct answer is Hwasong-15.

Key Points

• The Hwasong-15 is an intercontinental ballistic missile developed by North Korea.

• It had its maiden flight on 28 November 2017.

• It is the first ballistic missile developed by North Korea that is theoretically capable of reaching all of the United States mainland (including Washington D.C.).

Important Points North Korea:

• Capital - Pyongyang.

• Currency - North Korean won.

Q94. Answer: (c) March 2019

The correct answer is March 2019.

Key Points

• SBI pitched for deferring the implementation of Basel III banking norms in view of the higher capital requirement to deal with bad loans which have reached unacceptable levels beyond March 2019.

• Saying it will help banks meet their capital needs and increase credit flow to productive.

Important PointsState Bank of India (SBI)

• The origin of the State Bank of India goes back to the first decade of the nineteenth century with the establishment of the Bank of Calcutta in Calcutta on 2 June 1806.

• Three years later the bank received its charter and was re-designed as the Bank of Bengal (2 January 1809).

• State Bank of India was incorporated on 01 July 1955.

• The Government of India nationalized the Imperial Bank of India in the year 1955 with the Reserve Bank of India taking a 60% stake and the name was changed to the State Bank of India.

• SBI is the largest state-owned banking and financial services company in India.

Q95. Answer: (b) 18

The correct answer is 18.

Key Points

• The Supreme Court, in a landmark judgment, on 11 October 2017 criminalized sex with a minor wife aged between 15 to 18 years, saying the exception in the rape law was arbitrary and violative of the constitution.

• Section 375 of the IPC, which defines the offense of rape, has an exception clause that says intercourse or sexual act by a man with his wife, not below 15 years, is not rape. However, the age of consent is 18 years.

Important PointsSupreme Court

• The Supreme Court of India is the highest judicial court and the final court of appeal under the Constitution of India.

• India is a federal state and has a single and unified judicial system with a three-tier structure, i.e. Supreme Court, High Courts, and Subordinate Courts.

• The Indian constitution provides for a provision of the Supreme Court under Part V (The Union).

• Articles 124 to 147 - Deal with the organization, independence, jurisdiction, powers, procedures, and so on of the Supreme Court.

Q96. Answer: (b) 150

The correct answer is 150.

Key Points

• The pressure is defined as force per unit area.

• The standard unit for pressure is the Pascal, which is a Newton per square meter.

• Pressure and force are related because the pressure is a force divided by area and hence can be calculated by Steven Holzner formula, P = F ÷ A,

=> Pressure = 750 N ÷ 5 m^2

=> 150 Pa

Q97. Answer: (c) Power

The correct answer is Power.

Key Points

• In physics, power is the rate of doing work.

• It is the amount of energy consumed per unit of time.

• The unit of power is the joule per second (J/s), known as the watt (in honor of James Watt, the eighteenth-century developer of the steam engine).

Important Points

• Power is the rate at which work is done or the rate at which energy is transferred from one place to another or transformed from one type to another.

• A joule per second is called a watt [W] in honor of the Scottish mechanical engineer James Watt.

• Energy, in physics, is the capacity for doing work. It may exist in potential, kinetic, thermal, electrical, chemical, nuclear, or other various forms.

• There are, moreover, heat, and work i.e., energy in the process of transfer from one body to another.

• Momentum is a physics term; it refers to the quantity of motion that an object has. A sports team that is on the move has momentum.

• Momentum can be defined as "mass in motion".

• All objects have mass so if an object is moving, then it has the momentum it has its mass in motion.

Q98. Answer: (c) Boiling

The correct answer is Boiling.

Key Points

• Evaporation is the process by which water changes from a liquid to a gas or vapor.

• Rehydration is the process of restoring lost water (dehydration) to the body's tissues and fluids.

• Boiling is the rapid vaporization of a liquid, which occurs when a liquid is heated to its boiling point. Boiling water kills or

inactivates viruses, bacteria, protozoa, and other pathogens by using heat to damage structural components and disrupt essential life processes of germs.

• Desiccation is the process of extreme drying.

Additional Information

• Evaporation can generally be defined as a process by which a liquid is transformed into vapour.

• The rehydration capacity is an interesting functional property for industrial use of the product as well as for the consumer.

• Desiccation is the state of extreme dryness or the process of extreme drying

Q99. Answer: (c) Both A and B

The correct answer is Both A and B

Key Points

• Sunrisers Hyderabad, at the IPL retention 2018 had retained their captain and Australian opener, David Warner. (Hence statement A is correct)

• Rohit Kumar played as the captain of Bangalore bulls and also created the record for the most points scored by a team in 2017, the fifth season of the Pro Kabaddi League. (Hence statement B is correct)

• The Azerbaijan Grand Prix held on 25 June 2017 at the Baku City Circuit in Baku, Azerbaijan was won by Daniel Ricciardo of Red Bull. (Hence statement C is incorrect)

Q100. Answer: (b) Menu bar

The correct answer is Menu bar.

Key Points

• The menu bar is used to execute active links by selecting menu bar items from a top-level menu.

• The Header area element represents introductory content, typically a group of introductory or navigational aids.

• The body of HTML contains all the contents of an HTML document, such as text, hyperlinks, images, tables, lists, etc.

• The footer area is a section of the document that appears in the bottom margin. Footers generally contain information such as the page number, date, and document name.

Important PointsHTML:

• HTML is short for "HyperText Markup Language".

• It simply means it is a language for describing web pages using ordinary text.

• HTML is not a complex programming language.

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