



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC CHSL 2017 (Tier-I) Previous Year Paper (17-Mar-2018) (Shift 1)

Total Time: 1 Hour

Total Marks: 200

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	English Language	25	50	0.5	2
2	General Intelligence	25	50	0.5	2
3	Quantitative Aptitude	25	50	0.5	2
4	General Awareness	25	50	0.5	2

- 1.) A total of 60 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

English Language

1. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word. (+2, -0.5)

- a. megalomaniac
- b. megalomeniac
- c. megallomaniac
- d. megallomeniac

2. 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. (+2, -0.5)

A lever enabled you

A-controlled the burner flame

B-to raise or lower the wicks

C-and this is how you

- a. BAC
- b. ACB
- c. BCA
- d. ABC

3. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no (+2, -0.5)

improvement is needed, select "no improvement".

By then running water and electricity (had arrive), making the well and the lamp post redundant.

- a. had arriving
- b. had arrived
- c. arriving
- d. no improvement

-
4. 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". (+2, -0.5)

This stove (had) a flat kerosene tank at the bottom.

- a. have
- b. have had
- c. has had
- d. no improvement

-
5. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence. (+2, -0.5)

Revel in and make the most of something pleasing

- a. Abhor
- b. Bask

- c. Fret
 - d. Edgy
-

6. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence. (+2, -0.5)

Acutely distressing

- a. Palatable
 - b. Harrowing
 - c. Gratifying
 - d. Suave
-

7. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. (+2, -0.5)

In cahoots with

- a. A marriage made in heaven.
 - b. A group of criminals.
 - c. With lot of determination.
 - d. In an alliance or partnership with.
-

8. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. (+2, -0.5)

Back to the drawing board

- a. A creative person will always find a solution to any problem.
- b. An artist will express his feelings by drawing.
- c. It is better to work on a fanciful idea bound to fail than have no ideas at all.
- d. Used to indicate that an idea has been unsuccessful and that a new one must be devised.

9. 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. (+2, -0.5)

The _____ conversation-starter cultivated by years of ostentatious _____ society is a simple 'how do you do?' followed by a polite shaking of hands and an optional comment on the weather. But aside _____ the mental trauma this ritual causes to those unfortunate souls who suffer from clammy hands, it also doesn't provide much incentive to go on. Fascinating as the weather can be from time _____ time, one can speak only so much about the _____ of the sun and express sympathy towards the depressions the Bay of Bengal faces.

much about the _____ of the sun

- a. brightness
- b. bright
- c. brightly
- d. brighter

10. 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. (+2, -0.5)

The _____ conversation-starter cultivated by years of ostentatious _____ society is a simple 'how do you do?' followed by a polite shaking of hands and an optional comment on the weather. But aside _____ the mental trauma this ritual causes to those unfortunate souls who suffer from clammy hands, it also doesn't provide much incentive to go on. Fascinating as the weather can be from time _____ time, one can speak only so much about the _____ of the sun and express sympathy towards the depressions the Bay of Bengal faces.

from time _____ time, one

- a. to
- b. at
- c. so
- d. is

Your Personal Exams Guide

11. 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. (+2, -0.5)

The _____ conversation-starter cultivated by years of ostentatious _____ society is a simple 'how do you do?' followed by a polite shaking of hands and an optional comment on the weather. But aside _____ the mental trauma this ritual causes to those unfortunate souls who suffer from clammy hands, it also doesn't provide much incentive to go on. Fascinating as the weather can be from time _____ time, one can speak only so much about the

_____ of the sun and express sympathy towards the
depressions the Bay of Bengal faces.

But aside _____ the mental trauma

- a. from
- b. form
- c. of
- d. for

12. 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. (+2, -0.5)

The _____ conversation-starter cultivated by years of
ostentatious _____ society is a simple 'how do you do?' followed
by a polite shaking of hands and an optional comment on the weather.
But aside _____ the mental trauma this ritual causes to those
unfortunate souls who suffer from clammy hands, it also doesn't provide
much incentive to go on. Fascinating as the weather can be from time
_____ time, one can speak only so much about the
_____ of the sun and express sympathy towards the
depressions the Bay of Bengal faces.

years of ostentatious _____ society is a simple

- a. humanity
- b. humanly
- c. humanely
- d. human

13. 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. (+2, -0.5)

The _____ conversation-starter cultivated by years of ostentatious _____ society is a simple 'how do you do?' followed by a polite shaking of hands and an optional comment on the weather. But aside _____ the mental trauma this ritual causes to those unfortunate souls who suffer from clammy hands, it also doesn't provide much incentive to go on. Fascinating as the weather can be from time _____ time, one can speak only so much about the _____ of the sun and express sympathy towards the depressions the Bay of Bengal faces.

The _____ conversation-starter cultivated

- a. basic
- b. base
- c. basically
- d. basics

14. 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. (+2, -0.5)

- a. Acquaintance
- b. Acuinatance
- c. Acquaintence
- d. Akquaintance

15. 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. (+2, -0.5)

She said, "Let us wait for the seat"

- a. She proposed that they should wait for the seat.
- b. She proposed that they could wait for the seat.
- c. She proposed to wait for the seat.
- d. She proposed let us wait for seat.

16. 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. (+2, -0.5)

One can achieve reward by hard work.

- a. Reward could be achieved by hard work.
- b. Reward is needed for hard work.
- c. Reward is achieved by hard work.
- d. Reward can be achieved by hard work.

17. Rearrange the parts of the sentence in correct order. (+2, -0.5)

The invention of the turbine by

P: the beginning of jet transport

Q: Ohain in Germany in 1939 signalled

R: Frank Whittle in England and Hans von

- a. QRP
 - b. RQP
 - c. PQR
 - d. RPQ
-

18. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word. (+2, -0.5)

Wholesome

- a. Impure
 - b. Healthy
 - c. Pure
 - d. Safe
-

19. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word. (+2, -0.5)

Inundate

- a. Engulf
 - b. Immerse
 - c. Overrun
 - d. Underwhelm
-

20. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word. (+2, -0.5)

Accede

- a. Admit
- b. Submit
- c. Grown
- d. Consent

21. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word. (+2, -0.5)

Hackneyed

- a. Tired
- b. Fresh
- c. Uncommon
- d. New

22. 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. (+2, -0.5)

He won't pay the rent _____ how many times his landlord berates him.

- a. seeing as
- b. however

- c. although
- d. no matter

23. 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. (+2, -0.5)

Anita _____ her work by the time he came.

- a. had done
- b. has done
- c. is done
- d. would done

24. 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'. (+2, -0.5)

Proteins are providers of energy in an emergency, (1)/ and are primarily used as building blocking (2)/ for growth and repair of many body tissues. (3)/ No error (4)

- a. 1
- b. 2
- c. 3
- d. 4

25. 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'. (+2, -0.5)

He cooked (A)/ dinner and (B)/ than turned the radio on. (C)/ No error (D)

- a. A
- b. B
- c. C
- d. D

Prepp

Your Personal Exams Guide

General Intelligence

26. In the following question, select the related word pair from the given alternatives. (+2, -0.5)

Shout : Speak :: ? : ?

- a. Petrol : Fuel
- b. Rage : Anger
- c. Drown : Water
- d. Famous : People

-
27. In the following question, select the related number from the given alternatives. (+2, -0.5)

46 : 48 :: 61 : ?

- a. 67
- b. 71
- c. 65
- d. 63

-
28. In the following question, select the related letter/letters from the given alternatives. (+2, -0.5)

VOT : SLQ :: HRX : ?

- a. EMS

b. KOC

c. EOU

d. RVH

29. In the following question, select the odd word pair from the given alternatives. (+2, -0.5)

a. Car – Road

b. Water – Ship

c. Track – Train

d. Sky – Aeroplane

30. In the following question, four number pairs are given. The number on left side of (–) is related to the number of 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. (+2, -0.5)

a. 12 – 24

b. 14 – 28

c. 44 – 88

d. 33 – 88

31. In the following question, select the odd letter/letters from the given alternatives. (+2, -0.5)

a. LFZ

- b. PJC
 - c. SMG
 - d. XRL
-

32. Arrange the given words in the sequence in which they occur in the dictionary. (+2, -0.5)

1. Lighten 2. Liftoff 3. Lemonade 4. Leisure 5. Ladies

- a. 32451
 - b. 21345
 - c. 13245
 - d. 54321
-

33. In the following question, select the missing number from the given series. (+2, -0.5)

23, 24, 26, 27, 29, ?

- a. 31
 - b. 30
 - c. 33
 - d. 32
-

34. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. (+2, -0.5)

PCM, REO, TGQ, VIS, ?

- a. XKU
- b. WLV
- c. XLV
- d. WKU

35. The ratio of the present ages of Reena and her husband is 4 : 5. 8 years from now, the ages of her husband and her son will be in the ratio 24 : 9. If the present age of Reena is 32 years, then what will be her son's present age (in years)? (+2, -0.5)

- a. 12
- b. 15
- c. 10
- d. 8

36. From the given alternatives, select the word which CANNOT be formed using the letters of the given word. (+2, -0.5)

Preparation

- a. Paper
- b. Ration
- c. Part
- d. People

37. In a certain code language, "PROP" is written as "67" and "RATE" is written as "46". How is "MOCK" written in that code language? (+2, -0.5)

- a. 41
- b. 40
- c. 42
- d. 44

38. In a certain code language, '-' represents '×', '÷' represents '+', '+' represents '÷' and '×' represents '-'. Find out the answer to the following question. (+2, -0.5)

$$35 - 12 + 10 \times 50 \div 14 = ?$$

- a. 31
- b. 6
- c. 27
- d. 15

39. The following equation is incorrect. Which two signs should be interchanged to correct the equation? (+2, -0.5)

$$16 \div 4 \times 8 - 10 + 14 = 12$$

- a. × and -
- b. ÷ and ×
- c. ÷ and -

d. – and +

40. If $19!3 = 32$, $13!4 = 18$ and $12!2 = 20$, then find the value of $17!3 = ?$ (+2, -0.5)

a. 16

b. 28

c. 4

d. 8

41. Which of the following terms follows the trend of the given list? (+2, -0.5)

XZYXYXYXY, XYZXYXYXY, XYXZYXYXY, XYXYZXYXY, XYXYXZYXY, -----.

a. ZXYXYXYXY

b. XZYXYXYXY

c. XYZXYXYXY

d. XYXYXZYXY

42. Two navy ships start from the same port. Ship A travels 23 km West, then turns to its left and travels 19 km. Ship B travels 19 km West, then turns North and travels 5 km, then turns to its left and travels 4 km. Where is ship A with respect to ship B? (+2, -0.5)

a. 14 km South

b. 24 km North

c. 24 km South

d. 14 km North

43. 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. (+2, -0.5)

Statement I: All scissors are knives

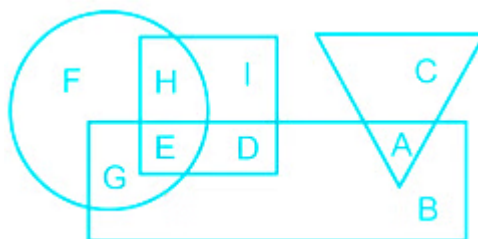
Statement II: Some blades are scissors

Conclusion I: Some knives are blades

Conclusion II: All blades are knives

- 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

44. In the following figure, rectangle represents Cinematographers, circle represents Lyricists, triangle represents Trekkers and square represents Joggers. Which set of letters represents Trekkers who are not Joggers? (+2, -0.5)



- a. ID
- b. AD

c. CI

d. AC

-
45. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. (+2, -0.5)

HOT, GMQ, FKN, EIK, ?

a. CHI

b. CGH

c. DGH

d. DHI

-
46. In the following question, select the missing number from the given series. (+2, -0.5)

93, 100, 107, 114, ?, 128

a. 120

b. 121

c. 123

d. 122

-
47. 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. (+2, -0.5)

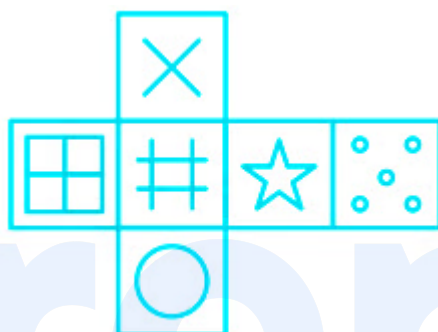
- a. (10, 20, 30)
- b. (12, 22, 32)
- c. (27, 37, 47)
- d. (19, 29, 49)

48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure? (+2, -0.5)





49. Which of the following cubes in the answer figure cannot be made based on the unfolded cube in the question figure? (+2, -0.5)



50. 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 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 'D' can be represented by 31, 43 etc and 'W' can be represented by 76, 57etc. Similarly, you have to identify the set for the word 'SKIP'.

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

- a. 41, 97, 23, 65
- b. 44, 86, 11, 56
- c. 21, 98, 31, 86

d. 85, 13, 24, 56

prepp

Your Personal Exams Guide

Quantitative Aptitude

51. In a company $\frac{2}{3}$ of the workers are girls, $\frac{1}{2}$ of the girls are married and $\frac{1}{3}$ of the married girls live in hostel. If $\frac{3}{4}$ of the boys are married and $\frac{2}{3}$ of married boys live in hostel. Calculate the part of workers who don't live in hostel. (+2, -0.5)

- a. $\frac{11}{18}$
- b. $\frac{15}{18}$
- c. $\frac{17}{18}$
- d. $\frac{13}{18}$

52. If a number 657423547X46 is divisible by 11, then find the value of X. (+2, -0.5)

- a. 7
- b. 9
- c. 8
- d. 6

53. Determine the value of $\frac{x+y}{x+2y}$ when $\frac{2x+y}{x+4y} = 3$ (+2, -0.5)

- a. $\frac{3}{5}$
- b. $\frac{7}{10}$
- c. $\frac{4}{5}$
- d. $\frac{10}{9}$

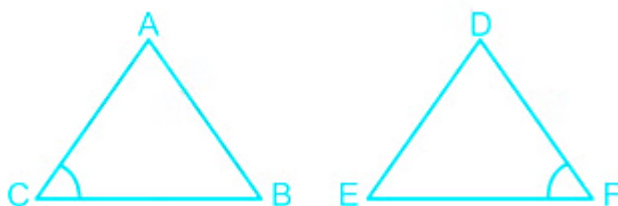
54. For what value of 'y', $x^2 + \frac{1}{12}x + y^2$ is a perfect square? (+2, -0.5)

- a. $1/24$
- b. $1/12$
- c. $1/6$
- d. $1/3$

55. Which of the following statement is CORRECT about the tangents? (+2, -0.5)

- a. The tangents drawn at the end of diameter of a circle are parallel to each other.
- b. The line segment which joins the point of contact of two parallel tangents to the circle is the diameter of the circle.
- c. Tangents drawn from the external points subtends equal angle at the centre.
- d. All option are correct.

56. Which of the following option is CORRECT for SAS similarity criterion for the triangle ABC and DEF? (+2, -0.5)



- a. $\angle A = \angle D$ and $AB/DE = AC/DF$

- b. $\angle B = \angle E$ and $AB/DE = BC/EF$
- c. $\angle C = \angle F$ and $AC/DF = BC/EF$
- d. All option are correct

57. If price of the table is increased by 25%, then a person can buy 25 table less for Rs. 25000. What is the original price (in Rs) of the table? (+2, -0.5)

- a. 225
- b. 250
- c. 200
- d. 167

58. A sum of Rs. 125 is divided among u, v and w in such a way that u gets Rs 10 more than v and v gets Rs. 5 more than w. What is the ratio of their shares? (+2, -0.5)

- a. 12 : 10 : 9
- b. 10 : 8 : 7
- c. 13 : 10 : 7
- d. 5 : 4 : 3

59. In an alloy, lead and tin are in the ratio of 2 : 3. In the second alloy, the ratio of same elements is 3 : 4. If equal quantities of these two alloy are mixed to form a new alloy, then what will be the ratio of these two elements in the new alloy? (+2, -0.5)

- a. 1 : 3
 - b. 29 : 41
 - c. 25 : 37
 - d. 31 : 43
-

60. Average age of 6 boys is 14 years. Average age of 11 girls is 12 years. What is the average age (in years) of all boys and girls? (+2, -0.5)

- a. 12.7
 - b. 14.6
 - c. 19.3
 - d. 8.5
-

61. Simple interest on a sum for 10 years is equal to 5% of the principal. In how many years interest will be equal to the principal? (+2, -0.5)

- a. 100
 - b. 150
 - c. 200
 - d. 250
-

62. The ratio of selling price to the cost price is 21 : 16. What is the profit percentage? (+2, -0.5)

- a. 35.75

b. 21.75

c. 27.75

d. 31.25

63. Dinesh purchases 10 dozens of apples at the rate of Rs. 180 per dozen. He sold each one of them at the rate of Rs. 19.5. What is the profit (in percentage) of Dinesh? (+2, -0.5)

a. 30

b. 15

c. 18

d. 25

e. 34

64. If $x = 4 + \sqrt{15}$, then what is the value of $[x^2 + (1/x^2)]$? (+2, -0.5)

a. 62

b. 64

c. 34

d. 36

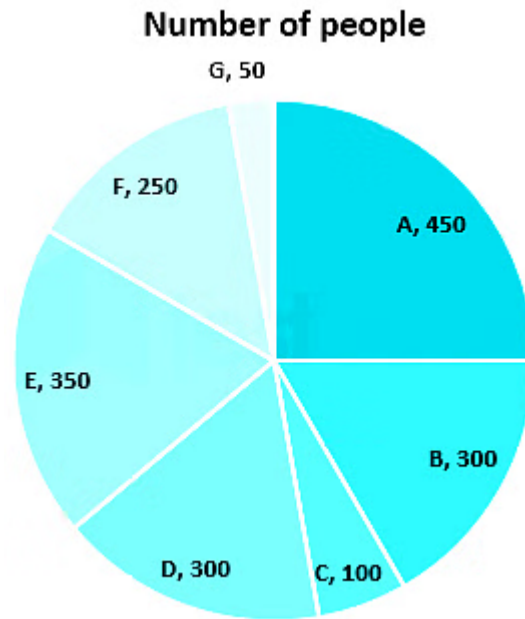
65. Some masons promised to do a work in 10 days but 8 of them were absent and the remaining did the work in 18 days. What was the original number of masons? (+2, -0.5)

- a. 10
- b. 21
- c. 15
- d. 18

66. A boat goes 8 km upstream and 12 km downstream in 7 hours. It goes 9 km upstream and 18 km downstream in 9 hours. What is the speed (in km/h) of the boat in still water? (+2, -0.5)

- a. 5
- b. 4
- c. 2
- d. 3

67. **Direction:** The pie chart shows the results of an online survey which asked people about their favourite movie. Study the diagram and answer the following questions. (+2, -0.5)

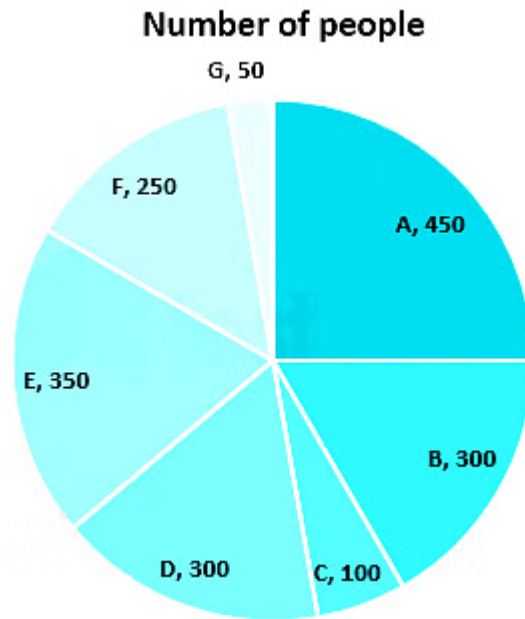


Which movie is the favourite of most people surveyed?

- a. F
- b. D
- c. A
- d. E

Your Personal Exams Guide

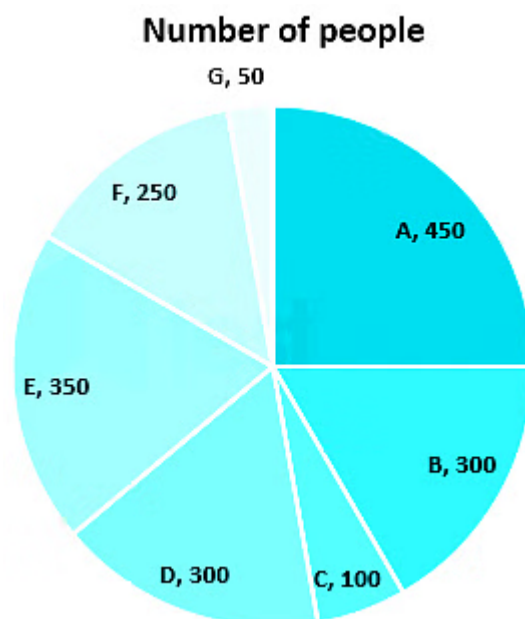
68. **Direction:** The pie chart shows the results of an online survey which asked people about their favourite movie. Study the diagram and answer the following questions. (+2, -0.5)



What is the total numbers of people who have responded to the survey?

- a. 1800
- b. 2100
- c. 2400
- d. 2000

69. **Direction:** The pie chart shows the results of an online survey which asked people about their favourite movie. Study the diagram and answer the following questions. (+2, -0.5)

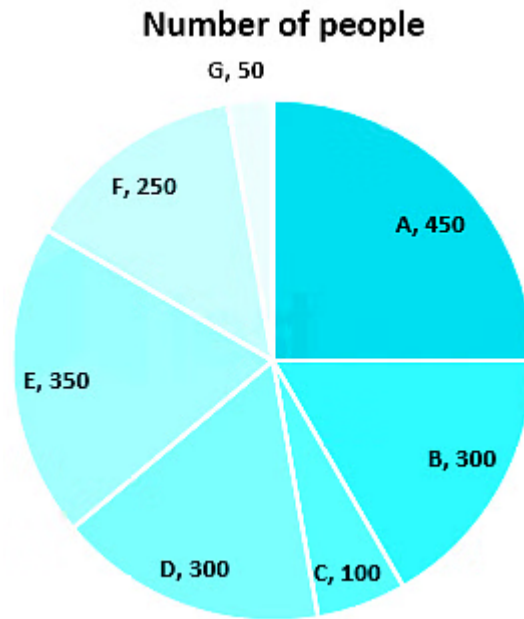


The measure of the central angle of the sector representing number of people whose favourite movie is C is _____ degrees.

- a. 15
- b. 20
- c. 30
- d. 10

Your Personal Exams Guide

70. **Direction:** The pie chart shows the results of an online survey which asked people about their favourite movie. Study the diagram and answer the following questions. (+2, -0.5)



Respondents who say their favourite movie is D and those who say their favourite movie is B constitute what percent of the total respondents?

- a. 30
- b. 33.33
- c. 40
- d. 25

Your Personal Exams Guide

71. The perimeter and the length of one of the diagonals of a rhombus is 26 cm and 5 cm respectively. Find the length of its other diagonal (in cm). (+2, -0.5)

- a. 6
- b. 12
- c. 24
- d. 18

72. If the area of a semi-circle is 1925 cm^2 , then find its radius (in cm). (+2, -0.5)

- a. 70
- b. 31
- c. 62
- d. 35

73. The total surface area of a cube is 253.5 cm^2 . Find its side (in cm). (+2, -0.5)

- a. 7.5
- b. 5.5
- c. 6.5
- d. 8.5

74. $\triangle DEF$ is right angled at E. If $m\angle F = 30^\circ$, then find the value of $(\sin D - 1/3)$. (+2, -0.5)

- a. $-1/2\sqrt{3}$
- b. $(3\sqrt{3} - 2)/6$
- c. $(\sqrt{2} - \sqrt{3})/\sqrt{6}$
- d. $(2\sqrt{2} - 1)/\sqrt{2}$

75. $\triangle DEF$ is right angled at E. If $\operatorname{cosec} D = 25/24$, then what is the value of $\cos F$? (+2, -0.5)

- a. $25/7$
- b. $24/7$
- c. $24/25$
- d. $7/24$

Prepp

Your Personal Exams Guide

General Awareness

76. Generally unemployment in a developing country takes place because of (+2, -0.5)

-----.

- a. Lack of complementary factors of production
- b. Seasonal factors
- c. Lack of effective demand
- d. Switch over from one job to another

77. The Ex-officio Secretary of NDC is ----- (+2, -0.5)

- a. Vice-Chairman of Planning Commission
- b. General Secretary of Lok Sabha
- c. Secretary of Finance Ministry
- d. Secretary of Planning Commission

78. Who of the following founded the Vikramashila University? (+2, -0.5)

- a. Devapala I
- b. Dharmapala
- c. Gopala
- d. Devapala II

79. Which Governor General of India used to write poetry with the name of "Owen Meredith"? (+2, -0.5)

- a. Lord Dalhousie
- b. Lord Ripon
- c. Lord Lytton
- d. Lord Canning

80. Which of the following pairs is NOT correctly matched? (+2, -0.5)

- a. Etna : Italy
- b. Fujiyama : Japan
- c. Popa : Myanmar
- d. Krakatau : Malaysia

81. The highest mountain peak of Chhotanagpur Plateau is _____. (+2, -0.5)

- a. Dhoopgarh
- b. Pachmarhi
- c. Parasnath
- d. Mahabaleshwar

82. Begum Akhtar is associated to which art form? (+2, -0.5)

- a. Dance
- b. Painting
- c. Music
- d. Folk Art

83. Which of the following countries has built the world's biggest air purifier, a 328 feet high tower, to combat air pollution? (+2, -0.5)

- a. Germany
- b. India
- c. Australia
- d. China

84. Who among the following writers won the 2017 Sahitya Academy Award for Hindi literature? (+2, -0.5)

- a. Niranjan Mishra
- b. Ramesh Kuntal Megh
- c. Uday Narayana Singh
- d. Shrikant Deshmukh

85. Which is the largest City of Nepal? (+2, -0.5)

- a. Hetauda

- b. Pokhara
 - c. Biratnagar
 - d. Kathmandu
-

86. Elements having same atomic numbers but a different mass number are called _____. (+2, -0.5)

- a. isotones
 - b. isotopes
 - c. isobar
 - d. None of the above
-

87. Washing soda is used _____. (+2, -0.5)

- I. for removing permanent hardness of water
- II. for disinfecting drinking water
- III. as a cleaning agent for the domestic purpose

- a. Only I and II
 - b. Only I and III
 - c. Only II and III
 - d. All I, II and III
-

88. What are the minimum qualifications of a person to become a member of Lok Sabha? (+2, -0.5)

- I. Must be a citizen of India.
 - II. Must not be less than 25 years of age.
 - III. Must hold an office of profit under Union Government.
- a. Only I and II
 - b. Only II
 - c. Both I and III
 - d. I, II and III
-

89. The India Parliament should meet at least _____. (+2, -0.5)

- a. Once a year
 - b. Twice a year
 - c. Thrice a year
 - d. Four times in a year
-

90. Which is the longest part of alimentary canal? (+2, -0.5)

- a. Oesophagus
 - b. Small intestine
 - c. Large intestine
 - d. Buccal cavity
-

91. Organs having different structures and components but performing similar functions are called _____. (+2, -0.5)

- a. Analogous organs
- b. Homologous organs
- c. Heterogeneous organs
- d. Homogenous organs

92. In August 2017, Environment Ministry of India launched 'GajYatra' to protect _____. (+2, -0.5)

- a. Tigers
- b. Elephants
- c. Lions
- d. Rhino

93. Which country has made the world's largest amphibious aircraft named AG600? (+2, -0.5)

- a. United States of America
- b. Russia
- c. China
- d. Saudi Arabia

94. In August 2017, which of the following launched world's first futures contracts in 'diamonds'? (+2, -0.5)

- a. Indian Commodity Exchange (ICEX)
 - b. Multi Commodity Exchange (MCEX)
 - c. National Association of Securities Dealers Automated Quotations (NASDAQ)
 - d. None of these
-

95. What is the resistance (in Ω) of an electrical component if a current of 0.2 A passes through it on the application of 8 V of a potential difference across it? (+2, -0.5)

- a. 40
 - b. 1.6
 - c. 80
 - d. 3.2
-

96. The value of acceleration due to gravity (g) _____. (+2, -0.5)

- a. is greater at the poles than at the equator
 - b. is lesser at the poles than at the equator
 - c. is greater at the North pole than at the South pole
 - d. is greater at the South pole than at the North pole
-

97. Seismic waves are recorded by an instrument called the _____ (+2, -0.5)

- a. Seismograph
- b. Odograph
- c. Isograph
- d. Lithograph

98. Which of the statements given below are correct? (+2, -0.5)

- A) In 2017, Dani Pedrosa raced in MotoGP for Yamaha.
- B) Alexander Zverev won the Tennis 2017 Miami Open Men's Singles.
- C) Viktor Axelsen won the Badminton 2017 BWF Super Series Finals Men's Singles.

- a. Only B
- b. Only C
- c. Both A and C
- d. None of these

99. Computer networks constituting the internet are connected by telephones, underwater cables and _____ (+2, -0.5)

- a. e-mail
- b. e-books

- c. Public telephone booths
- d. Satellites

100. On 3 January 2018, Lok Sabha passed Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017. The Bill seeks to permit construction in 'Prohibited areas' for _____. (+2, -0.5)

- a. Private Purposes
- b. Public Purposes
- c. Both public and private Purposes
- d. None of these

Prepp

Your Personal Exams Guide

Answers

1. Answer: a

Explanation:

Here the correct answer is **Megalomaniac**.

★ Key Points

:-

- '**Megalomania**' comes from the Greek '**megas**'(great) and '**mania**'(madness).
- It is a madness of greatness, but not a great kind of madness!
- Let's look at the **meaning** and **correct spelling** of the given word:-
 - **Megalomaniac**(*noun*) -a person who has an obsessive desire for power.
 - For Example -He has been accused of being a **megalomaniac**.

Therefore, the correct spelling of the given word is **Megalomaniac**.

2. Answer: c

Explanation:

Here the correct answer is **BCA**.

★ Key Points

:-

- '**Enable**' means give the authority (**to**).
 - **For Example** - The above-named acts enable the Board of Trade **to** take all the necessary steps to ensure that the safety of passenger trains is sufficiently guarded.
- Something enables you **to do something**.
- '**To**' follows naturally.

- Thus, **B** has to be first. Rule out **option 2 and option 4** .
- A sentence can't end with how you.
- Thus, **C** cannot be the last sentence.
- Therefore, it is clear from the above conclusions that the correct sequence is **BCA** .

Correct Sentence – *A lever enabled you to raise or lower the wicks and this is how you controlled the burner flame.*

3. Answer: b

Explanation:

Here the correct answer is **Had arrived** .

★ Key Points

:-

- In the above given sentence, '**had arrived**' will be used.
- It is so because the **arrival** happened before the well and the lamp became redundant.
- Whenever two actions occur in the past, one after the other, then the first action is expressed in **past perfect tense** and the second action is expressed in **Simple past tense**.
- For Examples:-
 - The patient **had died** before the doctor **came** .
 - He **came** after she **had gone** .
- **Past perfect tense** is used to **express an action which has been completed a long time ago in the past**.
- Structure of past perfect tense – Subject + had + V 3 + Object.

Therefore, the correct sentence is *By then running water and electricity had arrived, making the well and the lamp post redundant.*

4. Answer: d

Explanation:

Here the correct answer is **No improvement**.

★ Key Points

- The sentence is in **past perfect tense**.
- Thus, '**had**' is used in the given sentence.
- Past perfect tense is used to express an action which has been completed a long time ago in the past.
- Structure of past perfect tense - Subject + had + V 3 + Object.
- For Examples:-
 - He **had** left for India.
 - He **had** done his homework.
- Thus, there is no need for improvement in the given sentence.

Therefore, the correct sentence is *This stove had a flat kerosene tank at the bottom.*

5. Answer: b

Explanation:

Here the correct answer is **Bask**.

★ Key Points

:-

- Let's look at the **meaning** of the correct answer:-
 - **Bask**(verb) - **revel in and make the most of (something pleasing).**
 - For Example - He went on **basking** in the glory of his first book.
 - Synonyms - revel, luxuriate, delight, wallow
 - Antonyms - unlike, disapprove, dislike, different

- Let's look at the **meaning** of the other options:-

WORD	MEANING
Abhor (<i>verb</i>)	regard with disgust and hatred.
Fret (<i>verb</i>)	be constantly or visibly anxious.
Edgy (<i>adjective</i>)	tense, nervous, or irritable.

Therefore, the correct one word for the given descriptive sentence is *Ask*.

6. Answer: b

Explanation:

Here the correct answer is **Harrowing**.

★ Key Points:-

- Let's look at the **meaning** of the correct answer:-
 - Harrowing** (*adjective*) - acutely distressing.
 - For Example - It was a **harrowing** film about racism and violence.
- Let's look at the **meaning** of the other options:-

WORD	MEANING
Palatable (<i>adjective</i>)	(of food or drink) pleasant to taste; also, satisfactory.
Gratifying (<i>adjective</i>)	satisfying.
Suave (<i>adjective</i>)	(especially of a man) charming, confident, and elegant.

Therefore, the correct one word for the given words/sentence is *Harrowing*.

7. Answer: d

Explanation:

Here the correct answer is **In an alliance or partnership with** .

★ Key Points

:-

- Let's look at the **meaning** of the idiom/phrase:-
 - '**In cahoots with**' - In an alliance or partnership with **OR** working together or making plans together in secret.
 - For Example - I think those two are **in cahoots** .

Therefore, the correct meaning of the given idiom/phrase is *In an alliance or partnership with*.

8. Answer: d

Explanation:

Here the correct answer is **Used to indicate that an idea has been unsuccessful and that a new one must be devised**.

★ Key Points

:-

- Let's look at the **meaning** of the correct answer:-
 - **Back to the drawing board** - to start over
 - For Example - The company went **back to the drawing board** to make a better product.

Therefore, the correct meaning of the given idiom/phrase is *Used to indicate that an idea has been unsuccessful and that a new one must be devised*.

9. Answer: a

Explanation:

Here the correct answer is **Brightness** .

★ Key Points

:-

- In the above given blank, '**brightness**' will be used.
- It is so because the sentence is talking about a quality or state of the sun.
- Therefore, a noun will be used in the blank.
- **Brightness**(*noun*) – the quality or state of giving out or reflecting light.
 - For Example – We can change the **brightness** of the bulb.

Therefore, the correct word for the blank is *Brightness* .

10. Answer: a

Explanation:

Here the correct answer is **To** .

★ Key Points

:-

- In the above given blank, '**to**' will be used.
- It is so because '**Time to time**' is a *phrase* meaning **sometimes, but not regularly** .
 - For Example – I still think of her from **time to time** .
- In the sentence, the speaker is talking about the weather which can be fascinating sometimes, but not regularly.

Therefore, the correct word for the blank is *To* .

11. Answer: a

Explanation:

Here the correct answer is **From** .

★ Key Points

:-

- In the above given blank, '**from**' will be used.
- The sentence aims to say that besides the mental trauma, the ritual causes other things too.
- '**Aside from**' is a *phrase* which means **apart from; besides** .
 - For Example -The room was empty **apart from** one man seated beside the fire.

Therefore, the correct word for the blank is *From* .

12. Answer: d

Explanation:

Here the correct answer is **Human** .

★ Key Points

:-

- In the above given blank, '**human**' will be used.
- **Ostentatious**(*adjective*) - characterized by pretentious or showy display; designed to impress.
 - For Example - He prepared a simple design that is glamorous without being **ostentatious** .
- Clearly, the blank must also contain an adjective so that both of these can describe **society** .

- **Human**(*adjective*) – relating to or characteristic of humankind.
 - For Example – The **human** body is made up of 206 bones.
- The other options i.e. **humanity, humanly and humanely** are *noun, adjective and adjective* respectively.
- Therefore, '**human**' will be used which is both a *noun* and an *adjective* .

Therefore, the correct word for the blank is **Human** .

13. Answer: a

Explanation:

Here the correct answer is **Basic** .

★ Key Points

:-

- In the above given blank, '**basic**' will be used.
- It is so because the blank must be filled with an **adjective** which is supposed to describe **conversation starter** .
- In the options given, only basic and base are **adjectives** .
- The other two i.e. **basically and basics** are *adverb* and *noun* respectively.
- '**Basic**' will be used because it is an *adjective* meaning
 - forming an essential foundation or starting point; fundamental.
 - For Example – Certain **basic** rules must be obeyed.
 - '**Base**' cannot be used because it means without moral principles; ignoble.
 - For Example – The electorate's **baser** instincts of greed and selfishness.
- Thus, '**basic**' fits in the context of the sentence.

Therefore, the correct word for the blank will be **Basic** .

14. Answer: a

Explanation:

Here the correct answer is **Acquaintance** .

★ Key Points

:-

- The root of acquaintance is the Old French word '**acointier**' , a verb meaning '**make known**' .
- Being the acquaintance of a person or topic means **that you know something about it**.
- Let's look at the **correct spelling** and **meaning** of the given word:-
- **Acquaintance**(*noun*) - knowledge or experience of something OR a person one knows slightly, but who is not a close friend.
- **For Examples:-**
 - The pupils had little **acquaintance** with the language.
 - A wide circle of friends and **acquaintances** accompanied him.

Therefore, the correct spelling of the given word is **Acquaintance** .

15. Answer: a

Explanation:

Here the correct answer is **She proposed that they should wait for the seat** .

★ Key Points

:-

- '**Let us**' shows a **suggestion** .
- In transition of speech, we use **should to express suggestion**.
- Let's look at the steps for changing the sentence from direct to indirect speech:
 - The reporting verb '**said**' is changed to '**proposed**' because 'In Exclamatory sentences that express (**grief, sorrow, happiness, applaud**) ,

interjections are removed and the sentence is changed to an assertive sentence'.

- The pronoun 'us' is changed to 'they' as the first person changes according to subject.
- The conjunction 'that' is used in place of the comma and the inverted comma are removed.

Therefore, the correct indirect speech will be *She proposed that they should wait for the seat.*

★ Additional Information

The following table will enable us to know how tense changes in indirect speech:-

Direct Speech	Indirect Speech
Simple Present (<i>Subject + V 1 + Object</i>)	Simple Past (<i>Subject + V 2 + Object</i>)
Present Continuous (<i>Subject + is/am/are + V 1 + ing + Object</i>)	Past Continuous (<i>Subject + was/were + V 1 + ing + Object</i>)
Present Perfect (<i>Subject + has/have + V 3 + Object</i>)	Past Perfect (<i>Subject + had + V 3 + Object</i>)
Simple Past (<i>Subject + V 2 + Object</i>)	Past Perfect (<i>Subject + had + V 3 + Object</i>)
Past Continuous (<i>Subject + was/were + V 1 + ing + Object</i>)	Past Perfect Continuous (<i>Subject + had been + V 1 + ing + Object</i>)
Simple Future (<i>Subject + will/shall + V 1 + Object</i>)	Present Conditional (<i>Subject + would + V 1 + Object</i>)
Future Continuous (<i>Subject + will/shall + V 1 + ing + Object</i>)	Conditional Continuous (<i>Subject + would + be + V 1 + ing + Object</i>)

16. Answer: d

Explanation:

Here the correct sentence is **Reward can be achieved by hard work**.

★ Key Points

:-

- Modals such as **can, should, might, could, may, will, shall, ought to** etc. are preserved during change of voice.
- Whenever a sentence in active voice contains a modal verb, it is changed according to the following structure:-
 - Active Voice - **Modal verb + V₁**
 - Passive Voice - **Modal verb + be + V₃**
- **For Example:-**
 - Active Voice - I **may** solve this sum.
 - Passive Voice - This sum **may** be solved by me.
- Simple present (**achieve**) changes to simple past (**achieved**).
- The subject and object positions are interchanged.
- Since the subject of the active sentence is '**one**' i.e. **an indefinite subject**, it can be eliminated from the passive sentence.

Therefore, the correct passive voice will be *Reward can be achieved by hard work*.

★ Additional Information

- When we convert active voice to passive voice, **three things need to be kept in mind** :-
 - Change **object** into **subject**.
 - Change **subject** into **object**.
 - Always use **third form of verb** in passive voice.
 - Use '**by**' before the new object.

17. Answer: b

Explanation:

Here the correct answer is **RQP**.

★ Key Points

:-

- 'By' at the end of the given starting sentence suggests that there will be the name of the scientist who invented turbine as the first sentence.
- The second sentence will be **Q** because the first sentence **R** contains incomplete name of the second scientist.

Therefore, the correct order will be **RQP**.

18. Answer: a

Explanation:

Here the correct answer is **Impure**.

★ Key Points

:-

- Let's look at the **meaning** of the given word:-
 - **Wholesome** (*adjective*) - conducive to or suggestive of good health and physical well-being.
 - For Example - The food is plentiful and very **wholesome**.
- Let's look at the meaning of the correct answer:-
 - **Impure** (*adjective*) - mixed with foreign matter; adulterated.
 - For Example - It was an **impure** form of gold.
- Let's look at the **meaning** of the other options:-

WORD	MEANING
Healthy (<i>adjective</i>)	in a good physical or mental condition; in good health.
Pure (<i>adjective</i>)	not mixed or adulterated with any other substance or material.
Safe (<i>adjective</i>)	protected from or not exposed to danger or risk; not likely to be harmed or lost.

Therefore, the correct antonym of the given word is *Impure*.

★ Additional Information

Let's look at the **synonym** and **antonyms** of the given word and that of the correct answer:-

WORD	SYNONYMS	ANTONYMS
Wholesome	healthy, health-giving, healthful, good	unhealthy, unhealthful, insalubrious, insanitary.
Impure	adulterated, combined, mixed, blended.	pure, chaste.

19. Answer: d

Explanation:

Here the correct answer is **Underwhelm**.

★ Key Points

:-

- Let's look at the **meaning** of the given word:-

- **Inundate** (*verb*) – overwhelm (someone) with things or people to be dealt with.
- For Example – We've been **inundated** with complaints from listeners.
- Let's look at the meaning of the correct answer:-
 - **Underwhelm** (*verb*) – fail to impress or make a positive impact on (someone); disappoint.
 - For Example – Investors seemed **underwhelmed** by the company's turnaround plan.
- Let's look at the **meaning** of the other options:-

WORD	MEANING
Immerse (<i>verb</i>)	dip in a fluid or water.
Overrun (<i>verb</i>)	spread over or occupy (a place) in large numbers.
Engulf (<i>verb</i>)	(of a natural force) sweep over (something) so as to surround or cover it completely; submerge; flood.

Therefore, the correct antonym of the given word is *Underwhelm*.

★ Additional Information

Let's look at the **synonym** and **antonym** of the given word and answer:-

WORD	SYNONYMS	ANTONYMS
Inundate (<i>verb</i>)	overwhelm, overpower, overrun, overburden.	drain, reclaim, dry, desiccate.
Underwhelm (<i>verb</i>)	baffle, balk, dismay, displease.	overwhelming

20. Answer: d

Explanation:

Here the correct answer is **Consent**.

★ Key Points

:-

- Let's look at the **meaning** of the given word:-
 - Accede**(*verb*) - agree to a demand, request, or treaty.
 - For Example - The authorities did not **accede** to the strikers' demands.
- Let's look at the **meaning** of the correct answer:-
 - Consent**(*verb*) - permission for something to happen or agreement to do something.
 - For Example - No change may be made without the consent of all the partners.
- Let's look at the **meaning** of the other options:-

WORD	MEANING
Admit (<i>verb</i>)	confess to be true or to be the case.
Submit (<i>verb</i>)	accept or yield to a superior force or to the authority or will of another person.
Grown (<i>verb</i>)	(of a living thing) undergo natural development by increasing in size and changing physically.

Therefore, the correct synonym of the given word is **Consent**.

★ Additional Information

Let's look at the **synonyms** and **antonyms** of the given word and the correct answer:-

WORD	SYNONYMS	ANTONYMS
Accede	accept, endorse, allow, recognize.	refuse, deny
Consent	agreement, assent, concurrence, accord	discord, dissent

21. Answer: a

Explanation:

Here the correct answer is **Tired** .

★ Key Points

:-

- Let's look at the **meaning** of the given word:-
 - Hackneyed** (*adjective*) - (of a phrase or idea) having been overused; unoriginal and trite.
 - For Example - Some **hackneyed** situations come across as fresh and funny.
- Let's look at the **meaning** of the correct answer:-
 - Tired** (*adjective*) - in need of sleep or rest; weary.
 - For Example - Fisher rubbed his tired eyes.
- Let's look at the **meaning** of the other options:-

WORD	MEANING
Fresh (<i>adjective</i>)	not previously known or used; new or different.
Uncommon (<i>adjective</i>)	out of the ordinary; unusual.
New (<i>adjective</i>)	produced, introduced, or discovered recently or now for the first time; not existing before.

Therefore, the correct synonym of the given word is *Tired* .

★ Additional Information

Let's look at the synonyms and antonyms of the given word and the correct answer:-

WORD	SYNONYMS	ANTONYMS
Hackneyed	overused, overdone, worn out, overworked	original, fresh
Tired	weary, exhausted, fatigued, over-tired	energetic, fresh

22. Answer: d

Explanation:

Here the correct answer is **No matter** .

★ Key Points

:-

- In the above given sentence, '**no matter**' will be used.
- It is so because the person doesn't care how many times his landlord berates him, he is not going to pay the rent.
- No matter is a *phrase* meaning **regardless of; irrespective of**.
 - For Example - No matter what the excuse, you must not be late.
- Therefore, '**no matter**' will be apt for the given sentence.

Thus, the correct sentence is *He won't pay the rent no matter how many times his landlord berates him.*

23. Answer: a

Explanation:

Here the correct answer is Had done .

★ Key Points

:-

- In the above given sentence, 'had done' will be used.
- Whenever two actions occur in the past, one after the other, then the first action is expressed in past perfect tense and the second action is expressed in Simple past tense.
- For Examples:-
 - The patient had died before the doctor came .
 - He came after she had gone .
- Structure of past perfect tense - Subject + had + V 3 + Object.
- It is so because the action of doing the work was completed before the action of him coming .
- Therefore, 'past perfect tense' will be used.

Thus, the correct sentence is
Anita had done her work by the time he came.

★ Hinglish

Your Personal Exams Guide

- ऊपर दिए गए वाक्य में 'had done' का प्रयोग होगा।
- जब भी भूतकाल में दो क्रियाएं होती हैं, एक के बाद एक, तो पहली क्रिया past perfect tense में व्यक्त होती है और दूसरी क्रिया simple past tense में व्यक्त होती है।
- उदाहरण के लिए:-
 - The patient had died before the doctor came .
 - He came after she had gone .
- Past perfect tense की संरचना - Subject + had + V 3 + Object.
- ऐसा इसलिए है क्योंकि उसके आने से पहले काम करने की क्रिया पूरी हो गई थी।
- अतः 'past perfect tense' का प्रयोग होगा।

इस प्रकार, सही वाक्य यह है *Anita had done her work by the time he came.*

24. Answer: b

Explanation:

Here the correct answer is **2**.

★ Key Points

:-

- In the above given sentence, the error is in **part 2**.
- It is so because in place of '**blocking**', there should be a noun which is described by **building**.
- '**Blocking**' is a verb which has been wrongly used in place of **blocks**.
- Therefore, '**blocking**' will be replaced by '**blocks**'.

Thus, the correct sentence is *Proteins are providers of energy in an emergency, and are primarily used as building blocks for growth and repair of many body tissues.*

25. Answer: c

Explanation:

Here the correct answer is **C**.

★ Key Points

:-

- In the above given sentence, the error is in **part C**.
- It is so because '**than**' has been wrongly used in place of '**then**'.
- '**Than**' is used for comparison (*more than; faster than, etc.*)
 - For Example – She is younger than I am.
- '**Then**' is used to represent time. In the given context: **afterwards**.
 - For Example – She said something and then rode ahead.
- Therefore, '**than**' will be replaced by '**then**'.

Thus, the correct sentence is *He cooked dinner and then turned the radio on.*

26. Answer: b

Explanation:

Just as Shout is of higher intensity than speak, rage is of higher intensity than anger.

Hence, answer is option Rage : Anger.

27. Answer: d

Explanation:

The pattern followed here is:

$$46 + 2 = 48$$

Same pattern will be followed for 61 : ?

$$61 + 2 = 63$$

Hence, answer is 63.

28. Answer: c

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed here is:

$$V - 3 = S$$

$$O - 3 = L$$

$$T - 3 = Q$$

The same pattern will be followed for HRX : ?

$$H - 3 = E$$

$$R - 3 = O$$

$$X - 3 = U$$

Hence, the correct answer is EOU.

29. Answer: a

Explanation:

Car runs on road. (written in reverse order)

Ship sails in water.

Train runs on track.

Aeroplane runs in sky.

Hence, Car – Road is the odd pair.

Hence, answer is Car – Road.

30. Answer: d

Explanation:

In all pairs except 1, second number is double of the first number.

Hence, answer is 33 – 88.

31. Answer: b

Explanation:

$$L - 6 = F; F - 6 = Z$$

$$P - 6 = J; J - 7 = C$$

$$S - 6 = M; M - 6 = G$$

$$X - 6 = R; R - 6 = L$$

Hence, answer is PJC.

32. Answer: d

Explanation:

The dictionary order arrangement would be:

5. Lad ies

4. Lei sure

3. Lem onade

2. Lif toff

1. Lig hten

Hence, the correct dictionary order is '54321'.

33. Answer: b

Explanation:

The pattern followed here is:

$$23 + 1 = 24$$

$$24 + 2 = 26$$

$$26 + 1 = 27$$

$$27 + 2 = 29$$

Same pattern will be followed for missing number

$$29 + 1 = 30$$

Hence, answer is 30.

34. Answer: a

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed here is:

$$P + 2 = R; R + 2 = T; T + 2 = V$$

$$C + 2 = E; E + 2 = G; G + 2 = I$$

$$M + 2 = O; O + 2 = Q; Q + 2 = S$$

Same pattern will be followed to find missing term:

$$V + 2 = X$$

$$I + 2 = K$$

$$S + 2 = U$$

Hence, answer is XKU.

35. Answer: c

Explanation:

Let, the present age of Reena = $4x$

The present age of her husband = $5x$

After 8 years,

Age of her husband = $24y$

Age of her son = $9y$

Present age of Reena = 32 years

$$4x = 32 \text{ years}$$

$$\Rightarrow x = 8$$

Present age of her husband = $5x = 5 \times 8 = 40$ years

After 8 years, age of her husband = 48 years

$$48 = 24y$$

$$\Rightarrow y = 2$$

After 8 years, age of her son = $9y = 9 \times 2 = 18$

Present age of her son = $18 - 8 = 10$

Hence, the correct answer is 10 years.

36. Answer: d

Explanation:

- 1) Paper → **Prepa** ration → can be formed.
- 2) Ration → Prepa **ration** → can be formed.
- 3) Part → Pre **par** at ion → can be formed.
- 4) People → Preparation → cannot be formed as there is no letter 'l'.

Hence, 'People' cannot be formed.

37. Answer: d

Explanation:

The pattern followed here is:

$$P + R + O + P = 16 + 18 + 15 + 16 = 65 + 2 = 67$$

$$R + A + T + E = 18 + 1 + 20 + 5 = 44 + 2 = 46$$

Same pattern will be followed for "MOCK"

$$M + O + C + K = 13 + 15 + 3 + 11 = 42 + 2 = 44$$

Hence, answer is 44.

38. Answer: b

Explanation:

$$\text{Given equation} \Rightarrow 35 - 12 + 10 \times 50 \div 14 = ?$$

Symbol	+	−	×	÷
Code	÷	×	−	+

After Interchange

$$\Rightarrow 35 \times 12 \div 10 - 50 + 14$$

$$\Rightarrow 35 \times 1.2 - 50 + 14$$

$$\Rightarrow 42 - 50 + 14$$

$$\Rightarrow 42 + 14 - 50$$

$$\Rightarrow 56 - 50$$

$$\Rightarrow 6$$

Hence, correct answer is 6.

39. Answer: b

Explanation:

1) $\times$ and $-$

$$16 \div 4 - 8 \times 10 + 14$$

$$= 4 - 80 + 14$$

$$= 18 - 80$$

$$= 62 \neq 12$$

2) $\div$ and $\times$

$$16 \times 4 \div 8 - 10 + 14$$

$$= 16 \times 0.5 - 10 + 14$$

$$= 8 - 10 + 14$$

$$= 12$$

3) $\div$ and $-$

$$16 - 4 \times 8 \div 10 + 14$$

$$= 16 - 3.2 + 14$$

$$= 26.8 \neq 12$$

4) $-$ and $+$

$$16 \div 4 \times 8 + 10 - 14$$

$$= 4 \times 8 + 10 - 14$$

$$= 42 - 4$$

$$= 38 \neq 12$$

Hence, by interchanging $\div$ and $\times$, we get the correct answer.

Hence, the correct answer is option 2.

40. Answer: b

Explanation:

The pattern followed here is

$$19 - 3 = 16 \times 2 = 32$$

$$13 - 4 = 9 \times 2 = 18$$

$$12 - 2 = 10 \times 2 = 20$$

Same pattern will be followed for $17!3 = ?$

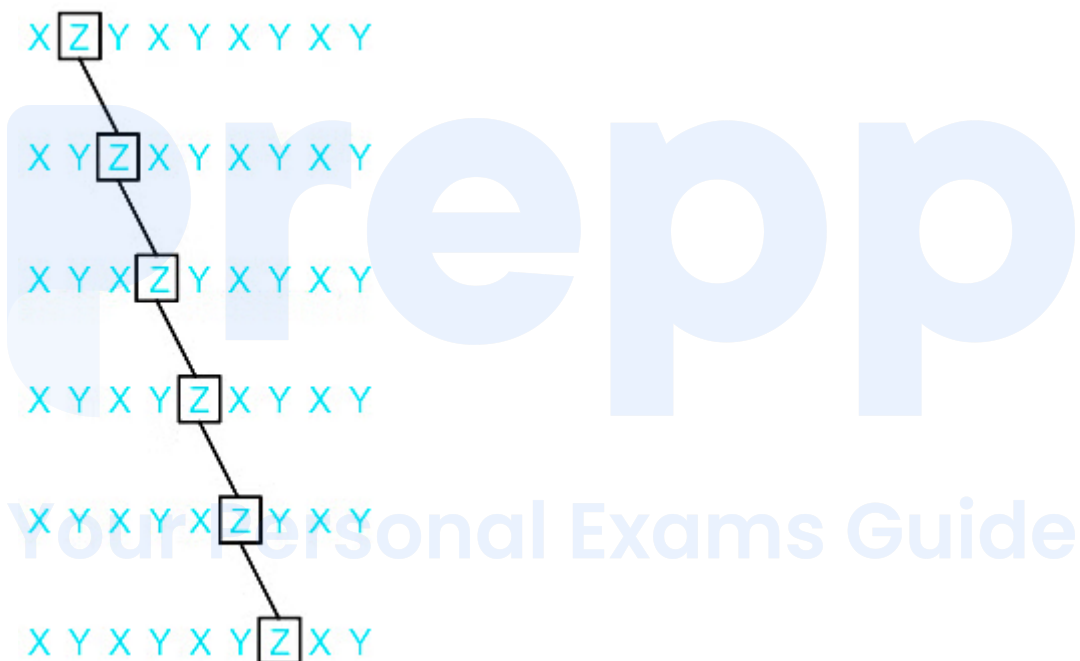
$$17 - 3 = 14 \times 2 = 28$$

Hence, answer is 28.

41. Answer: d

Explanation:

The logic followed here is

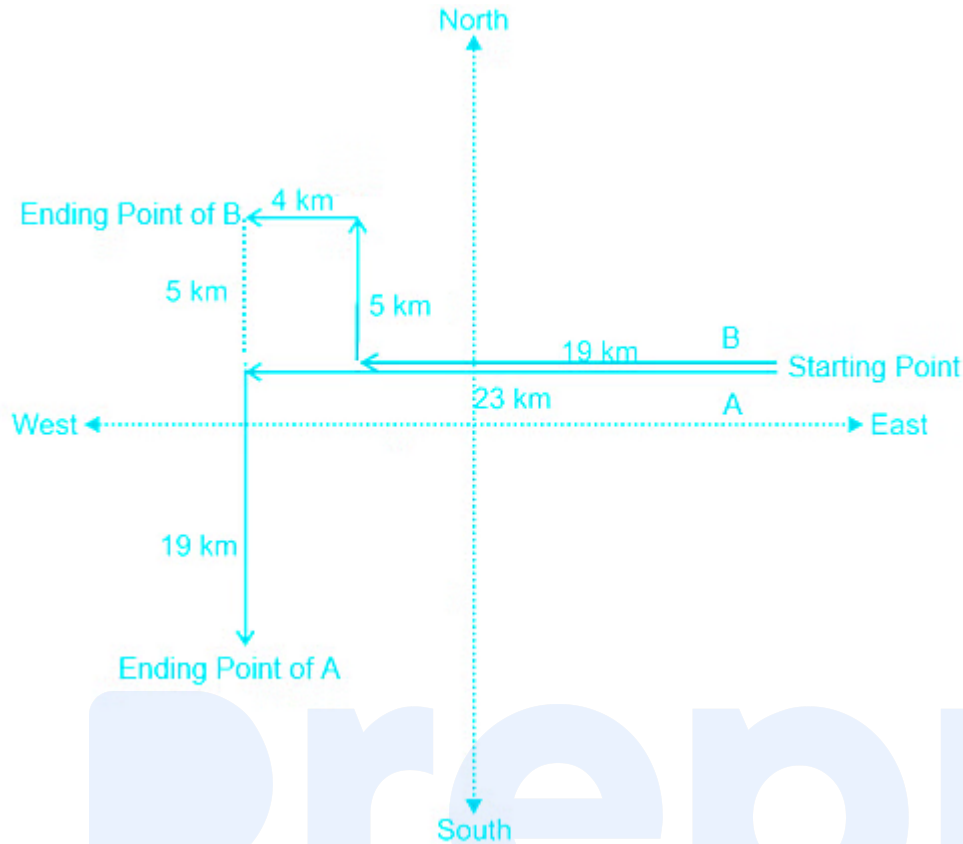


Here, Z is moving 1 step forward.

Thus, next term would be XYXYXYZXY.

42. Answer: c

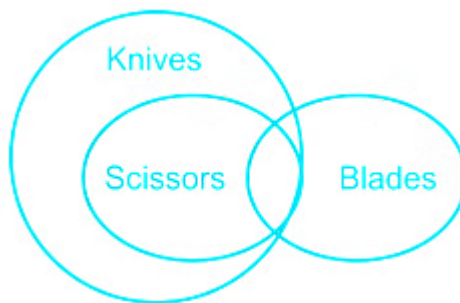
Explanation:



Ship A is 24 Km south with respect to ship B.

43. Answer: a

Explanation:



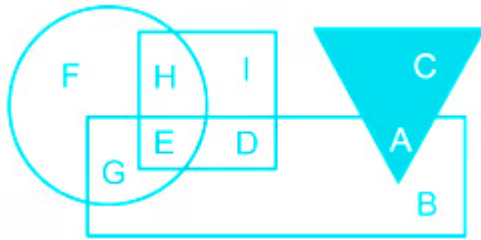
Conclusion I: Some knives are blades → True (as all scissors are knives and some scissors are blades)

Conclusion II: All blades are knives → False (it is possible but not definite)

Hence, answer is Only conclusion I follows.

44. Answer: d

Explanation:



Here, AC represents Trekkers who are not Joggers.

Hence, the correct answer is AC.

45. Answer: c

Explanation:

The pattern followed here is:

$$H - 1 = G; G - 1 = F; F - 1 = E$$

$$O - 2 = M; M - 2 = K; K - 2 = I$$

$$T - 3 = Q; Q - 3 = N; N - 3 = K$$

Same pattern will be followed to find the missing term:

$$E - 1 = D$$

$$I - 2 = G$$

$$K - 3 = H.$$

Hence, answer is DGH

46. Answer: b

Explanation:

The pattern followed here is :

$$93 + 7 = 100$$

$$100 + 7 = 107$$

$$107 + 7 = 114$$

Same pattern will be followed to find the missing term

$$114 + 7 = 121$$

Hence, the missing term is 121.

47. Answer: d

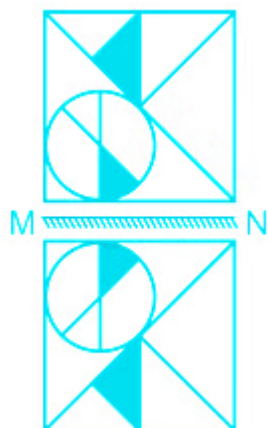
Explanation:

In every group except group 4, there is difference of 10 in each number.

Hence, the odd pair is (19, 29. 49).

48. Answer: a

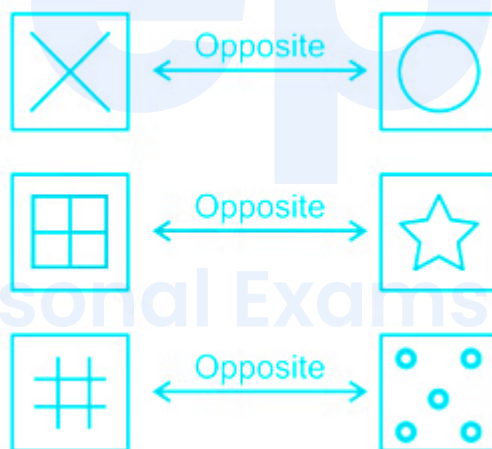
Explanation:



Hence, answer is option 1.

49. Answer: b

Explanation:



Components of option 2 can't be adjacent to each other as they are opposite to each other.

Hence, answer is option 2.

50. Answer: d

Explanation:

1) 41, 97, 23, 65 → K, X, C, O

2) 44, 86, 11, 56 → J, V, H, P

3) 21, 98, 31, 86 → C, Z, D, V

4) 85, 13, 24, 56 → S, K, I, P

Hence, **85, 13, 24, 56** is set of number that represent word "SKIP".

51. Answer: d

Explanation:

Let total number of people be x

Workers that are girls = $2x/3$

Married girls = $(1/2) \times (2x/3) = x/3$

Married girls who live in hostel = $(1/3) \times (x/3) = x/9$

Girls who doesn't live in hostel = $(2x/3) - (x/9) = 5x/9$

Workers that are boys = $x - (2x/3) = x/3$

Married boys = $(3/4) \times (x/3) = x/4$

Married boys who lives in hostel = $(2/3) \times (x/4) = x/6$

Boys who doesn't live in hostel = $(x/3) - (x/6) = x/6$

Workers who don't live in hostel = $(5x/9) + (x/6) = 13x/18$

$\therefore$ Part of workers who don't live in hostel = $13/18$

52. Answer: b

Explanation:

Divisibility law of 11 $\Rightarrow$ The difference of the alternating sum of digits of the number must be either 0 or a multiple of 11 (e.g. 2343 is divisible by 11 because $2 - 3 + 4 - 3 = 0$).

According to divisibility rule of 11, 65423547X46 is divisible by 11.

If $6 - 5 + 7 - 4 + 2 - 3 + 5 - 4 + 7 - X + 4 - 6 = 9 - X$ is divisible by 11

So, $X = 9$

53. Answer: d

Explanation:

$$\frac{2x + y}{x + 4y} = 3$$

$$\Rightarrow 2x + y = 3x + 12y$$

$$\Rightarrow -11y = x$$

$$\therefore \frac{x + y}{x + 2y} = \frac{-11y + y}{-11y + 2y} = \frac{-10y}{-9y} = \frac{10}{9}$$

Your Personal Exams Guide

54. Answer: a

Explanation:

Formula used:

$$(a + b)^2 = a^2 + 2ab + b^2$$

Calculation:

$$x^2 + \frac{1}{12}x + y^2$$

$$\Rightarrow x^2 + 2\left(\frac{1}{24}\right)x + y^2$$

If we take $y = 1/24$, we get

$$\Rightarrow x^2 + 2\left(\frac{1}{24}\right)x + \left(\frac{1}{24}\right)^2$$

$$\Rightarrow \left(x + \frac{1}{24}\right)^2$$

$\therefore$ For $x^2 + \frac{1}{12}x + y^2$ to be perfect square $y = 1/24$.

★ Alternate Method

Equation $x^2 + \frac{1}{12}x + y^2$ represents the quadratic equation.

Compare this from $ax^2 + bx + c = 0$

$$\Rightarrow a = 1, b = 1/24, c = y^2$$

For perfect square, discriminant should be zero.

$$\Rightarrow D = b^2 - 4ac = 0$$

$$\Rightarrow (1/24)^2 - 4 \cdot 1 \cdot y^2$$

$$\Rightarrow y^2 = (1/24)^2$$

$$\therefore y = 1/24$$

55. Answer: d

Explanation:

Calculation:

Statement (1) and (2) are the same statements told in a different manner so both of them are true

Now, the two triangles formed by tangents, radius and the line joining the external point to the centre are congruent by SAS rule as,

1. Radius is equal
 2. 90° angle as tangent is perpendicular to radius at the point of contact
 3. Length of two tangents drawn from an external point to a circle are equal
- So, by Corresponding parts of concurrent triangle rule statement (3) is also true
- $\therefore$ All option are correct
-

56. Answer: d

Explanation:

Concept used:

If any two sides and the angle included between the sides of one triangle are equivalent to the corresponding two sides and the angle between the sides of the second triangle, then the two triangles are said to be similar by SAS rule.

Calculation:

Now, the following conditions will give that both the triangles are similar .

$$\Rightarrow \angle A = \angle D \text{ and } AB/DE = AC/DF$$

$$\Rightarrow \angle B = \angle E \text{ and } AB/DE = BC/EF$$

$$\Rightarrow \angle C = \angle F \text{ and } AC/DF = BC/EF$$

$\therefore$ The correct option is 4.

57. Answer: c

Explanation:

Calculation:

Let the price of one Table be Rs. x

Table bought for Rs.25000 = $25000/x$

New price = $x + 25\% \text{ of } x = x + 0.25x = 1.25x$

Tables bought for Rs.25000 = $25000/1.25x = 20000/x$

According to the question,

$$\Rightarrow (25000/x) - (20000/x) = 25$$

$$\Rightarrow 25000 - 20000 = 25x$$

$$\Rightarrow 25x = 5000$$

$$\Rightarrow x = 200$$

$\therefore$ The correct answer is Rs.200.

★ Shortcut Trick

Concept used:

If the price is constant then,

Product used $\propto$ (1/price change)

Calculation:

Price change	4	5
Product used	5	4

Now,

$$\Rightarrow (5 - 4) = 1 \text{ unit} = 25 \text{ table}$$

$$\Rightarrow 5 \text{ unit} = 125 \text{ tables}$$

So the price of one table = $25000/125 = \text{Rs.}200$

∴ The correct answer is Rs.200.

58. Answer: b

Explanation:

Given:

Sum to be divided among u, v and w = Rs.125.

$$\Rightarrow u = v + 10$$

$$\Rightarrow v = w + 5$$

Calculation:

According to the question:

$$\Rightarrow u = v + 10 \quad \text{-----(1)}$$

$$\Rightarrow v = w + 5$$

$$\Rightarrow w = v - 5 \quad \text{-----(2)}$$

Also, **Your Personal Exams Guide**

$$\Rightarrow u + v + w = 125$$

$$\Rightarrow (v + 10) + v + (v - 5) = 125$$

$$\Rightarrow 3v = 120$$

$$\Rightarrow v = 40$$

By equation (1),

$$\Rightarrow u = 40 + 10 = 50$$

By equation (2),

$$\Rightarrow w = 40 - 5 = 35$$

$$\text{Required ratio} = u : v : w = 50 : 40 : 35 = 10 : 8 : 7$$

$\therefore$ The correct answer is 10 : 8 : 7.

59. Answer: b

Explanation:

Given:

In the first alloy

$$\text{Lead : Tin} = 2 : 3$$

In the second alloy

$$\text{Lead : Tin} = 3 : 4$$

Calculation:

Let 'x' quantity of each of the two alloys be mixed

$$\text{Quantity of lead in the new alloy} = (2/5)x + (3/7)x = 29x/35$$

$$\text{Quantity of tin in the new alloy} = (3/5)x + (4/7)x = 41x/35$$

$$\text{Required ratio} = (29x/35) : (41x/35) = 29 : 41$$

$\therefore$ The correct answer is 29 : 41.

60. Answer: a

Explanation:

Given:

Average of 6 boys = 14 years.

Average of 11 girls = 12 years

Calculation:

Average of 6 boys = 14

Sum of ages of 6 boys = $14 \times 6 = 84$

Now,

Average of 11 girls = 12

Sum of age of 11 girls = $12 \times 11 = 132$

Now,

Sum of the age of all girls and boys together = $84 + 132 = 216$

Average of all boys and girls = $216/17 = 12.7$

$\therefore$ The correct answer is 12.7 .

61. Answer: c

Explanation:

Given:

Simple interest on a sum for 10 years is equal to 5% of the principal.

Formula used:

Simple interest = $(\text{Principle} \times \text{time} \times \text{Rate})/100$

Calculation:

Let the principle be Rs. P

According to the question:

$$\Rightarrow (\text{Principle} \times \text{time} \times \text{Rate})/100 = 5\% \text{ of } P$$

$$\Rightarrow (P \times 10 \times \text{Rate})/100 = 5\% \text{ of } P$$

$$\Rightarrow \text{Rate} = 0.5\%$$

Now, let in 't' years the simple interest is equal to the principle

$$\text{Simple interest} = (P \times 0.5 \times t)/100$$

$$\Rightarrow (P \times t)/200 = P$$

$$\Rightarrow t = 200 \text{ years}$$

$\therefore$ The correct answer is 200 years.

62. Answer: d

Explanation:

Given:

$$\text{S.P} : \text{C.P} = 21 : 16$$

Calculation:

$$\text{Profit \%} = \{(\text{S.P} - \text{C.P})/\text{C.P}\} \times 100$$

$$\Rightarrow \{(\text{S.P}/\text{C.P}) - 1\} \times 100$$

$$\Rightarrow \{(21/16) - 1\} \times 100 = 31.25\%$$

$\therefore$ The correct answer is 31.25% .

63. Answer: a

Explanation:

Given:

C.P of 1 dozen apples = Rs.180/dozen

S.P of 1 dozen apple = Rs.19.5

Calculation:

Total cost price = $10 \times 180 = \text{Rs.}1800$

Total selling price = $10 \times 12 \times 19.5 = \text{Rs.}2340$

Profit % = $\{(S.P - C.P)/C.P\} \times 100$

$\Rightarrow \{(2340 - 1800)/1800\} \times 100 = 30\%$

$\therefore$ The correct answer is 30% .

64. Answer: a

Explanation:

Given:

$\Rightarrow x = 4 + \sqrt{15}$

Calculation:

$\Rightarrow x^2 = (4 + \sqrt{15})^2$

$\Rightarrow 16 + 15 + 8\sqrt{15} = 31 + 8\sqrt{15}$

And

$\Rightarrow 1/x^2 = 1/(31 + 8\sqrt{15})$

$\Rightarrow (31 - 8\sqrt{15})/(961 - 960) = 31 - 8\sqrt{15}$

Now, put the values in the equation:

$$\Rightarrow x^2 + (1/x^2)$$

$$\Rightarrow 31 + 8\sqrt{15} + 31 - 8\sqrt{15} = 62$$

$\therefore$ The correct answer is 62.

65. Answer: d

Explanation:

Calculation:

Let the number of masons be y .

Time taken = 10 days

Now, as 8 masons were absent,

Number of masons = $(y - 8)$

Time taken = 18

Now, as work done is equal

$$\Rightarrow y \times 10 = (y - 8) \times 18$$

$$\Rightarrow 10y = 18y - 144$$

$$\Rightarrow 8y = 144$$

$$\Rightarrow y = 18$$

$\therefore$ Original number of masons = 18

66. Answer: d

Explanation:

Calculation:

Let the speed of the boat be x km/h and the speed of the stream to be y km/h

The speed of the boat upstream = $(x - y)$

The speed of the boat downstream = $(x + y)$

According to the question,

$$\{8/(x - y)\} + \{12/(x + y)\} = 7$$

$$\Rightarrow 8x + 8y + 12x - 12y = 7(x^2 - y^2)$$

$$\Rightarrow 20x - 4y = 7(x^2 - y^2) \quad \text{-----(1)}$$

Also,

$$\{9/(x - y)\} + \{18/(x + y)\} = 9$$

$$\Rightarrow x + y + 2x - 2y = (x^2 - y^2)$$

$$\Rightarrow 3x - y = (x^2 - y^2)$$

$$\Rightarrow 21x - 7y = 7(x^2 - y^2) \quad \text{-----(2)}$$

Subtracting equation (1) from (2) we get,

$$\Rightarrow x - 3y = 0$$

$$\Rightarrow x = 3y$$

Now, from equation (1) we get,

$$\Rightarrow 60y - 4y = 7(9y^2 - y^2)$$

$$\Rightarrow 56y = 56y^2$$

$$\Rightarrow y(y - 1) = 0$$

$$\Rightarrow y = 1$$

Now,

$$\Rightarrow x = 3y = 3 \times 1 = 3 \text{ km/hr}$$

$\therefore$ The speed of the boat in still water = 3 km/hr

67. Answer: c

Explanation:

According to the graph, Movie A is the favourite of most people ie 450 people

68. Answer: a

Explanation:

$\therefore$ Total number of people who responded to the survey = $450 + 300 + 100 + 300 + 350 + 250 + 50 = 1800$

Your Personal Exams Guide

69. Answer: b

Explanation:

People whose favorite movie is C = 100

Total number of people who were surveyed = 1800

$\therefore$ Central angle = $(100/1800) \times 360^\circ = 20^\circ$

70. Answer: b

Explanation:

People whose favorite movie is B and D = $300 + 300 = 600$

Total number of people who were surveyed = 1800

$\therefore$ Required % = $(600/1800) \times 100 = 33.33\%$

71. Answer: b

Explanation:

Given:

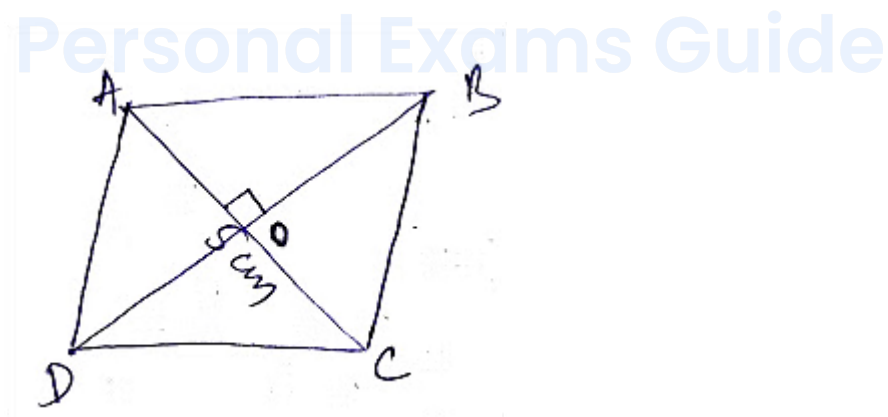
Perimeter of the rhombus = 26 cm

Length of a diagonal (AC) = 5 cm

Concept used:

Diagonals of the Rhombus are perpendicular and bisect each other.

Calculation:



Perimeter of rhombus = $4 \times \text{side}$

$$\Rightarrow 26 = 4 \times AB$$

$$\Rightarrow AB = 26/4 = 6.5 \text{ cm}$$

Now,

$$\Rightarrow AB = 6.5 \text{ cm}$$

$$\Rightarrow AO = AC/2 = 5/2 = 2.5 \text{ cm}$$

In $\triangle ABO$

By Pythagoras theorem:

$$\Rightarrow AO^2 + BO^2 = AB^2$$

$$\Rightarrow (2.5)^2 + BO^2 = (6.5)^2$$

$$\Rightarrow 6.25 + BO^2 = 42.25$$

$$\Rightarrow BO^2 = 36$$

$$\Rightarrow BO = 6 \text{ cm}$$

$$\Rightarrow BD = 2 \times 6 = 12 \text{ cm}$$

$\therefore$ The length of its other diagonal = 12 cm

72. Answer: d

Explanation:

Given:

Area of a semi-circle = 1925 cm^2

Formula used:

Area of semicircle = $(1/2) \times \pi \times (\text{Radius})^2$

Calculation:

Area of semicircle = $(1/2) \times \pi \times R^2$

$$\Rightarrow (1/2) \times (22/7) \times R^2 = 1925$$

$$\Rightarrow R^2 = 1225$$

$$\Rightarrow R = 35 \text{ cm}$$

$\therefore$ The correct answer is 35 cm .

73. Answer: c

Explanation:

Given:

Total surface area of cube = 253.5 cm^2

Formula used:

Total surface area = $6 \times \text{Side}^2$

Calculation:

Total surface area = $6 \times \text{Side}^2$

$$\Rightarrow 6 \times \text{Side}^2 = 253.5$$

$$\Rightarrow \text{Side}^2 = 42.25$$

$$\Rightarrow \text{Side} = 6.5 \text{ cm}$$

$\therefore$ The correct answer is 6.5 cm .

74. Answer: b

Explanation:

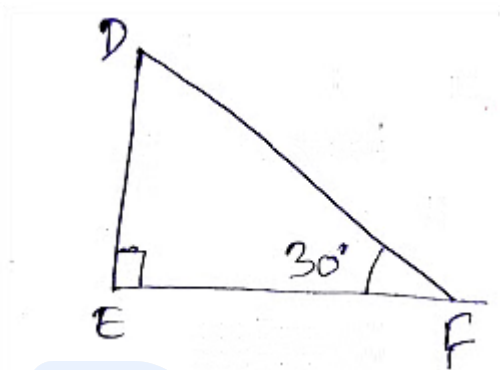
Given:

$$\angle E = 90^\circ; \angle F = 30^\circ$$

Formula used:

$$\sin 60 = (\sqrt{3}/2)$$

Calculation:



As, $\angle E = 90^\circ$ and $\angle F = 30^\circ$

By angle sum property,

$$\Rightarrow \angle D = 180^\circ - (\angle E + \angle F)$$

$$\Rightarrow \angle D = 180^\circ - (90^\circ + 30^\circ)$$

$$\Rightarrow \angle D = 60^\circ$$

Now,

Putting the value in the below equation:

$$\sin D = (1/3)$$

$$\Rightarrow \sin 60^\circ = (1/3)$$

$$\Rightarrow (\sqrt{3}/2) - (1/3) = (3\sqrt{3} - 2)/6$$

$\therefore$ The correct answer is $(3\sqrt{3} - 2)/6$.

75. Answer: c

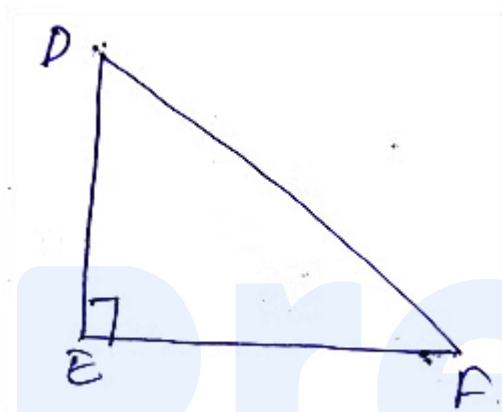
Explanation:

Given:

$$\angle E = 90^\circ$$

$$\operatorname{Cosec} D = 25/24$$

Calculation:



$$\operatorname{Cosec} D = 25/24$$

$$\Rightarrow DF/EF = 25/24$$

$$\Rightarrow DF = 25k \text{ and } EF = 24k$$

For $\cos F$, Base = EF and hypotenuse = DF

$$\cos F = EF/DF = 24k/25k = 24/25$$

$\therefore$ The correct answer is $24/25$.

76. Answer: a

Explanation:

Generally, unemployment in a developing country takes place because of lack of complementary factors of production.

- There are four factors of production- land, labor, capital and organization/entrepreneurship.
- If the country is not able to generate employment opportunities to gainfully engage and involve these factors of production, the required amount of output cannot be produced and income cannot be generated, which usually, results in unemployment.
- Unemployment is the condition when a large number of able-bodied people of working age, who are willing to work but could not find work at the current wage levels.
- As of 2018, round about 31 million Indians are unemployed.
- Types of Unemployment are as follows:

prepp

Your Personal Exams Guide

1	Frictional Unemployment	Refers to temporary unemployment associated with the changing of jobs in the dynamic economy.
2	Structural Unemployment	Refers to unemployment that occurs due to the long-term decline of certain industries.
3	Seasonal Unemployment	Refers to unemployment that results from a change in taste, fashion, and season.
4	Voluntary Unemployment	Refers to unemployment that results when people are not willing to work at a certain wage rate, even when the work is available.
5	Involuntary Unemployment	Refers to unemployment that occurs when the people are ready to work but there are not enough job opportunities.
6	Cyclic Unemployment	Refers to unemployment that occurs as a result of the business cycle. E.g. In case of economic recession in a country, job opportunities decrease, workers get laid off from a job, etc.

77. Answer: d

Explanation:

The Ex-officio Secretary of NDC is Secretary of Planning Commission.

- NDC stands for National Development Council.

- Set up in 1952, it is the topmost body for making decisions and deliberations in progressive matters in India.
 - It is presided over by the Prime Minister of India
-

78. Answer: b

Explanation:

- Vikramshila University was founded by the Pala King, Dharmapala in the late 8th or early 9th century.
 - It was situated at Bhagalpur, Bihar.
 - It was one of the largest Buddhist universities with more than 100 teachers and about 1000 students.
 - The university prospered for around four centuries and was later destroyed by Bakhtiyar Khilji.
-

79. Answer: c

Explanation:

Lord Lytton used to write poetry with the pen name, "Owen Meredith".

- An English statesman and poet, Robert BulwerLytton (1831-1891), served as the Viceroy of India between 1876 - 1880.
 - Some of his publications are as follows-
 - Clytemnestra, The Earl's Return, The Artist, And Other Poems, 1855
 - The Wanderer, 1859
 - Lucile, 1860.
 - The Ring of Aiasis, 1863
 - Fables in Song, 1874
 - Glenaveril, 1885
 - After Paradise, or Legends of Exile, 1887, etc.
-

80. Answer: d

Explanation:

Krakatau : Malaysias NOT correctly matched.

- Krakatau is the volcanic island located in the Sunda Strait in Indonesia.
- Etna is an active volcano in Italy.
- Fujiyama(also known as Mount Fuji) is the highest mountain in Japan.
- Popa is the volcano in Myanmar.

81. Answer: c

Explanation:

The correct answer is Parasnath.

★ Key Points

- **Parasnath**
 - Parasnath Hills are a range of hills located in the Giridih district of Jharkhand.
 - The highest peak is 1370 meters.
 - It is one of the most important pilgrimage centers for Jains.
 - They call it Sammed Sikhar . The hill is named after Parasnath, the 23rd Tirthankara.
 - Twenty of the twenty-four Jain Tirthankaras attained salvation on this hill.
 - The Santhals call it Marang Buru , the hill of the deity.
 - They celebrate a hunting festival on the full moon day in Baisakh (mid-April).

★ Additional Information

- Dhoopgarh

- Mount Dhupgarh is the highest point peak situated in the Mahadeo Hills (Satpura Range), Madhya Pradesh, India.
- Pachmarhi Hill station is situated near the peak.
- Pachmarhi is a hill station located in the Hoshangabad district of Madhya Pradesh state of central India.
- It has been the destination of a cantonment since British Raj.
- It is extensively known as Satpura ki Rani ("Queen of Satpura"), situated at a height of 1067 m in a valley of the Satpura Range in the Hoshangabad district.
- Dhupgarh, the highest point (1,352 m) present in Madhya Pradesh, and the Satpura range are situated here.
- It is also popular for Satpura Tiger Reserve.
- **Pachmarhi**
 - It, also known as Satpura ki Rani, is a hill station in the central Indian state of Madhya Pradesh.
 - Its many waterfalls include Apsara Vihar, with its calm pool, and soaring, single-drop Silver Fall nearby.
 - The Bee Fall tumbles over a jagged rock face to the northwest.
 - Leopards and Indian bison live in Satpura National Park.
 - The ancient Pandav Caves are a group of 5 dwellings cut out of sandstone on a hill.
- **Mahabaleshwar**
 - Mahabaleshwar is situated at Sahyadri mountain range in the Satara District of Maharashtra.
 - Its name is derived from a Lord Mahadev temple and three Sanskrit words, Maha (great), Bal (power) and Ishwar (God).
 - Mahabaleshwar in Sanskrit means God of Great Power.
 - Old Bombay Presidency used Mahabaleshwar as their summer capital.

82. Answer: c

Explanation:

Begum Akhtar (1914 – 1974) is associated with Music.

- Her real name is – Akhtari Bai Faizabadi.
- Given the title of Mallika-e-Ghazal, she is a classical singer of Indian Music.
- She was awarded PadmaBhushan, posthumously by the Indian Government.

83. Answer: d

Explanation:

China has built the world's biggest air purifier, a 328 feet high tower, to combat air pollution.

- Built in the Shaanxi province, it has given more than 10 million cubic meters of clean air since it was installed (January 2018).

84. Answer: b

Explanation:

Ramesh Kuntal Megh won the 2017 Sahitya Academy Award for Hindi literature.

- RameshKuntalMeghhas won this award for his work "Vishw Mithak Sarit Sagar", a literary criticism.
- A literary honor, Sahitya Academy Award, is given annually by the Sahitya Academy to writers of exceptional books.

85. Answer: d

Explanation:

The correct answer is Kathmandu.

★ Key Points

- The **capital and largest city of Nepal** is **Kathmandu**.
- It is situated at an **altitude of 1,400 meters** in the Kathmandu Valley.
- In the **second century CE**, the city was established.
- The valley has been the **Newar people's** home for centuries.
- It was formerly known as the **"Nepal Mandala."**
- The city is home to **palaces, residences, and gardens** that were created by the aristocracy of Nepal.
- Since **1985**, it has served as the location of the **South Asian Association for Regional Cooperation (SAARC)** headquarters.

★ Additional Information

- **Hetauda:**
 - In the Bagmati Province in **central Nepal's Makwanpur District** is a sub-metropolitan city called Hetauda.
 - It serves as the **Makwanpur District's administrative hub**.
- **Pokhara:**
 - **Central Nepal's Pokhara** is a city on the Phewa Lake.
 - It is referred to be the entrance of the **Annapurna Circuit**.
- **Biratnagar:**
 - Biratnagar, a major city in Nepal, is the **administrative center of Province No. 1**.

Your Personal Exams Guide

86. Answer: b

Explanation:

Elements having same atomic numbers but a different mass number are called Isotopes.

- Isotopes have different physical properties and similar chemical properties.
- They are the atoms of the same element having the same numbers of protons but different numbers of neutrons.
- They have same chemical properties due to the same electronic configuration but different physical properties.

87. Answer: b

Explanation:

Washing soda is used for removing permanent hardness of water & as a cleansing agent for domestic purpose.

- The chemical formula for Washing Soda is Na_2CO_3 , and the chemical name is Sodium Carbonate.
- It usually occurs as decahydrate crystal.
- It is also known as Soda Ash or Soda Crystals.

88. Answer: a

Explanation:

The minimum qualifications of a person to become a member of Lok Sabha:

- Must be a citizen of India & Must not be less than 25 years of age.
- The other conditions include:
 - The candidate must be a voter for any parliamentary constituency in India.
 - He/she must not hold an office of profit under Union Government.
 - He should not be of an unsound mind.
 - He/she must not be an undischarged insolvent.

89. Answer: b

Explanation:

The India Parliament should meet at least twice a year.

- The period during which the Houses- Rajya Sabha and Lok Sabha- meet to conduct its business, is called session.
- There are three types of sessions that are conducted in the Parliament of India:
 - Budget session: from February to May.
 - Monsoon session: from July to September.
 - Winter session: from November to December.
- The Constitution empowers the President to summon each House at such intervals that there should not be more than a six-month gap between the two sessions.
- Please read Article 85 of the Indian Constitution.

90. Answer: b

Explanation:

The small intestine is the longest part of the alimentary canal.

- The small intestine is also the largest part of the alimentary canal.
- The small intestine is divided into three regions:
 - Duodenum ('C' shaped)
 - Jejunum (a long coiled middle portion)
 - Ileum (highly coiled)
- 90 percent of the absorption and digestion occurs in the small intestine.

★ Mistake Points

- The **alimentary canal** consists of the mouth, buccal cavity, pharynx, oesophagus, stomach, **small intestine**, large intestine, rectum, and anus.
Hence small intestine is the correct answer.

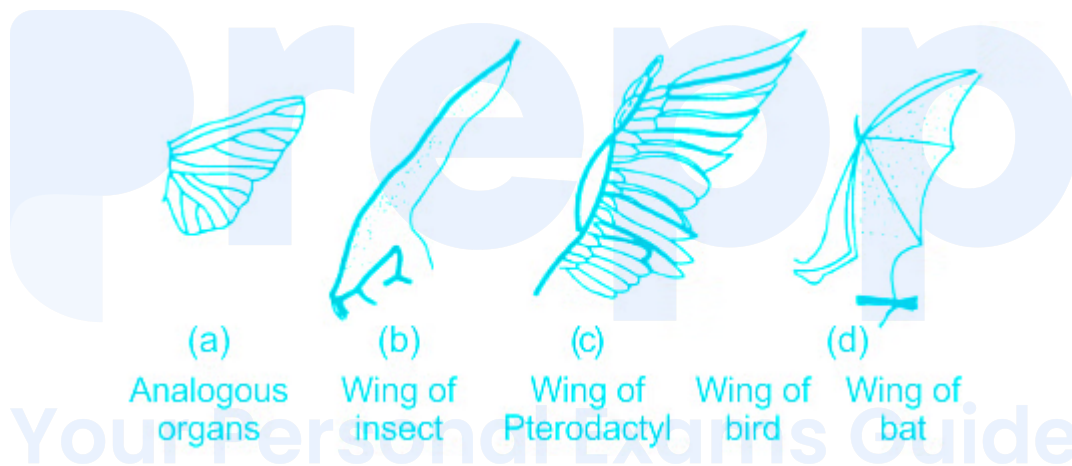
91. Answer: a

Explanation:

The correct answer is **Analogous organs**.

★ **Key Points**

- Analogous organs : The organs which are different anatomically but similar functionally are called analogous organs .
- Eg. Wings of butterflies, birds, and bats , the Eyes of octopuses & mammals , and Flippers of penguins & dolphins .
- All these have different anatomical structures but they perform the same function like Wings of butterfly, birds & bats differs in structure but all of them perform the function of flight.
- Analogous organs always show convergent evolution.
- In convergent evolution, the species of different ancestry start sharing analogous traits because of selection pressure or shared environment.



★ **Additional Information**

- Homologous organs: The organs which are similar in structural design & origin i.e. same anatomical structure but different in functions are called Homologous organs .
- Eg. The forelimbs of some animals like whales, bats & cheetah have similar anatomical structures i.e., humerus, radius, ulna, metacarpals, and phalanges but different functions.
- The forelimb of the whale is used in swimming, a bat's forelimb is used for flight while a cheetah uses the forelimb for running.
- Homologous organs always show divergent evolution

- Vestigial organs : The remnant organs of our past ancestors that are now today considered "use-less" are called Vestigial organs
-

92. Answer: b

Explanation:

In August 2017, Environment Ministry of India launched 'Gaj Yatra' to protect Elephants.

- It was launched by the Union Environment, Forest and Climate Change Minister, Dr. Harsh Vardhan on the occasion of World Elephant Day, which is celebrated every year on 12th August.
 - 'GajYatra' is a journey to celebrate our national heritage animal, Elephant.
 - It aims at protecting 100 elephant corridors across India.
-

93. Answer: c

Explanation:

China has made the world's largest amphibious aircraft named AG600.

- The plane is codenamed as Kunlong.
 - It has the hull of a flying boat for waterborne operations along with a wheeled retractable undercarriage for alighting on land.
 - AG600 is designed by the Aviation Industry Corporation of China (AVIC).
-

94. Answer: a

Explanation:

In August 2017, Indian Commodity Exchange (ICEX) launched world's first future contracts in 'diamonds'.

- A future contract is an agreement between two parties to buy or sell an asset at a specified time in the future at a predetermined price.
- Indian Commodity Exchange (ICEX) in August 2017 launched world's first future contracts in 'diamonds' with 1-carat futures contracts, and then subsequently added the 50-cents contracts.
- In April 2018, it launched 30-cents diamond futures contracts.
- The futures contracts will provide companies with direct hedging facilities.
- ICEX has devised a mechanism in which the vault agency delivers the diamond bought by the investor at the doorstep of the client.
- ICEX provides a nation-wide online trading platform in commodity derivative.

95. Answer: a

Explanation:

The resistance of an electrical component if a current of 0.2 A passes through it on the application of 8 V of a potential difference across it is 40 Ω .

Formula: Potential Difference $V = \text{Current } I \times \text{Resistance } R$

$$R = V \div I$$

So,

$$= 8 \div 0.2$$

$$= 40\Omega.$$

Resistance is the hindrance offered to the current in its passage through the conductor.

96. Answer: a

Explanation:

The value of acceleration due to gravity (g) is greater at the poles than at the equator.

- Since the earth is flattened at the Poles and bulged at the Equator, the Poles are nearer to the center of the earth than the Equatorial region.
- As acceleration due to gravity is inversely proportional to the distance, the poles being at a lesser distance from the center of the earth have more value of acceleration due to gravity.
- The acceleration produced by the force of attraction of the earth is known as acceleration due to gravity i.e., g

$$F = ma = mg$$

97. Answer: a**Explanation:**

Seismic waves are recorded by an instrument called the seismograph.

- The tremors produce vibrational disturbances or waves on earth's surface. These waves are called seismic waves.
- The seismic waves are recorded by an instrument called the seismograph. It measures and determines the magnitude of an earthquake.
- The record produced by the seismograph on a display screen or paper printout in form of a graph showing motion of the ground over a period of time is called the seismogram.

98. Answer: b**Explanation:**

Viktor Axelsen won the Badminton 2017 BWF Super Series Finals Men's Singles.

- In 2017 BWF World Championship, Viktor Axelsen became the first Danish player to win gold in the men's singles by beating China's Lin Dan. The last Danish Badminton player to win the title was Peter Rasmussen, in 1997.
- The 2017 BWF World Championships was held in Glasgow, Scotland.

99. Answer: d

Explanation:

Computer networks constituting the internet are connected by telephones, underwater cables, and Satellites.

- A computer network, also known as a data network, is a telecommunications network which allows computers to exchange its data.
- The Internet has emerged as a useful means of global communication, services and information sharing.
- A huge network of millions of computer networks constitutes the Internet. These networks are connected by telephones, underwater cables, and satellites.

Your Personal Exams Guide

100. Answer: b

Explanation:

On 3 January 2018, Lok Sabha passed Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017. The Bill seeks to permit construction in 'Prohibited areas' for Public Purposes.

- The Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017 amends the Ancient Monuments and Archaeological Sites and Remains (AMASR) Act, 1958.

- AMASR Act, 1958 prohibits construction in the 'prohibited areas' even if it is for public purposes. The Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017 amends this provision and permits construction of public works in these particular areas for public purposes.

Prepp

Your Personal Exams Guide