

Q1. A sum of money invested at $16\frac{2}{3}\%$ simple interest p.a. for 4 years yields the same interest as another sum invested at $12\frac{1}{2}\%$ simple interest p.a. for 6 yrs. What is the ratio of the two sum invested?

- (a) 8 : 9
- (b) 9 : 8
- (c) 4 : 3
- (d) 3 : 4

Q2. Two inlet pipes A and B can fill empty cistern in 6 and 10 hrs respectively. They are switched on together but pipe B had to be closed 1 hour before the cistern was full. How many hours did they take to fill the cistern?

- (a) $4\frac{1}{2}$ hr
- (b) $5\frac{3}{4}$ hr
- (c) $3\frac{1}{3}$ hr
- (d) $4\frac{1}{8}$ hr

Q3. $81 \div 3^3 \times 4 - 10 = ?$

- (a) 1
- (b) 2
- (c) 0
- (d) 12

Q4. Sum of a two digit number and number obtained by reversing digits is 66. Sum of digits of the number is ?

- (a) 5
- (b) 6
- (c) 12
- (d) 9

Q5. The HCF of 268 and 469 is

- (a) 67
- (b) 53
- (c) 73
- (d) 59



Q6. One fifth of a number is 4 less than one-fourth of number preceding it. Find the original number.

- (a) 84
- (b) 85
- (c) 57
- (d) 58

Q7. After meeting with an accident a train starts moving at $\frac{3}{4}$ its speed. Due to this, it is 120 minutes late. Find the original time of the journey beyond the point of the accident?

- (a) 6 hrs
- (b) 4 hrs
- (c) 90 min
- (d) 3 hrs

Q8. Atul can cycle at 8 km an hour and walk at 5 km an hour. To cover a distance of 61 km, he takes 9.5 hrs. how many kilometers did he cover on cycle?

- (a) 45
- (b) 30
- (c) 36
- (d) 48

Q9. The length, breadth and height of a room are in the ratio 4 : 3 : 2. If the length is doubled, breadth is one-third and the height halves, by what percentage would the cost of painting the four walls of the room change.

- (a) $35\frac{5}{7}\%$
- (b) $37\frac{4}{9}\%$
- (c) $52\frac{1}{3}\%$
- (d) $22\frac{1}{2}\%$

Q10. A clock is at 03 : 10 am. How many degrees would the minute hand have cumulatively covered when the time is 04 : 05 am?

- (a) 270°
- (b) 330°
- (c) 295°
- (d) 355°

Q11. The ratio of boys to girls in a school is 8 : 9. If 14 boys are admitted and 13 girls leave the school, the ratio becomes 1 : 1. The original number of boys in the school is

- (a) 196
- (b) 206
- (c) 216
- (d) 256

Q12. Given that $A = \tan 30^\circ$ and $B = \frac{\cot 60 \cot 30 + 1}{\cot 30 - \cot 60}$, which of the relations stated below is true?

- (a) $A > B$
- (b) $A < B$
- (c) $A + B = 1$
- (d) $A = B$

Q13. Consider the following question and decide which of the statements is sufficient to answer the question.

Question:

Find the value of p

Statements :

I. $x^2 - 4px + 64 = 0$

II. The equation has the solution as '2'.

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

Q14. $3/7$ when divided by another number gives $1/21$, what is the other number?

- (a) $15/7$
- (b) $7/9$
- (c) 9
- (d) $1/18$

Q15. A builder can build a wall in 12 hours while destroyer can demolish it completely in 20 hours. Both set to work together for 15 hours than destroyer was taken out. What was the total time taken to build the wall?

- (a) 21 hours
- (b) 16 hours
- (c) 25 hours
- (d) 32 hours

Q16. The LCM of 228 and 399 is:

- (a) 2105
- (b) 1877
- (c) 1744
- (d) 1596

Q17. A person driving at a speed of 30 km/hr reaches office 2 minutes early, while he reaches 3 minutes late if driving at 25 km/hr. What is the distance (in km) that he is covering?

- (a) 12.5
- (b) 15
- (c) 9.8
- (d) 14.6

Q18. A father is four times as old as his son now. After 5 years, their ages will be in the ratio of 3 : 1. Find the present age of the father.

- (a) 35 years
- (b) 45 years
- (c) 40 years
- (d) 50 years

Q19. Amit travels 20 m in 9 sec and then another 40 m in 11 sec. What is the average speed of Amit?

- (a) 1 m/s
- (b) 2.5 m/s
- (c) 3.6 m/s
- (d) 3 m/s

Q20. Rs. 460 is divided in the ratio 13 : 7. The smaller share is equal to ____?

- (a) Rs. 157
- (b) Rs. 195
- (c) Rs. 163
- (d) Rs. 161

Q21. 49 out of 70 is _____%

- (a) 49
- (b) 10
- (c) 70
- (d) 63

Q22. Find the next term in the series.

11, 14, 19, 26, ?

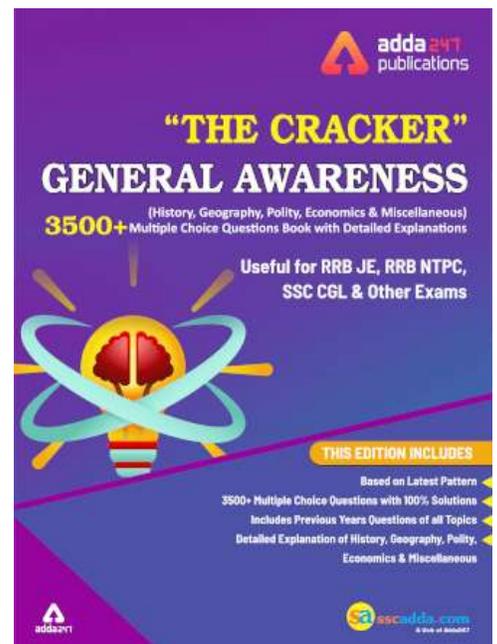
- (a) 36
- (b) 37
- (c) 34
- (d) 40

Q23. Which of the following numbers is not a prime no.

- (a) 113
- (b) 161
- (c) 127
- (d) 181

Q24. What is the value of $\frac{1}{\cos^2 \theta} - (1 + \tan^2 \theta) = ?$

- (a) 1
- (b) 0
- (c) 2
- (d) -1



Q25. Solve for x; $x \in \mathbb{N}$:

$$(x - 3)^2 - 81 = 0$$

- (a) 12
- (b) 6
- (c) 9
- (d) -3

Q26. Find the height (in m) of a building if the Shadow of building is increases by 35 m when the angle of elevation of the sun decreases from 45° to 30° .

- (a) $\frac{35}{2}(\sqrt{3} - 1)$
- (b) $\frac{35}{2}(2 - \sqrt{3})$
- (c) $\frac{35}{2}(\sqrt{3} + 2)$
- (d) $\frac{35}{2}(\sqrt{3} + 1)$

Q27. $\frac{1732}{141} = 12.29$, then what is the value of 122.9×0.141 ?

- (a) 17.32
- (b) 0.1732
- (c) 173.2
- (d) 1.732

Q28. Ramniwas had Rs. 5230 in his bank account. He deposited Rs. 498 in his bank account after that he withdrew the money to pay for 6 shoes. If the remining balance of his account is Rs. 3289.6, then what is the price of each pair of shoes.

- (a) Rs384.6
- (b) Rs 406.4
- (c) Rs 398.9
- (d) Rs 412.4

Q29. Find the compound interest on Rs. 8000 for 2 years at 6% per annum when compounded yearly ?

- (a) Rs. 988.8
- (b) Rs. 889.6
- (c) Rs. 1024.8
- (d) Rs. 923.4

Q30. The salaries of Atul and Dev are in the ratio 6 : 5. If the salary of each increases by Rs. 2000, then the new ratio becomes 13 : 11 what was the Atul's salary before increment.

- (a) 20,000
- (b) 26,000
- (c) 24,000
- (d) 22,480

Q31. 7th of April 2014 is a Monday. What day would be 14 August 2014?

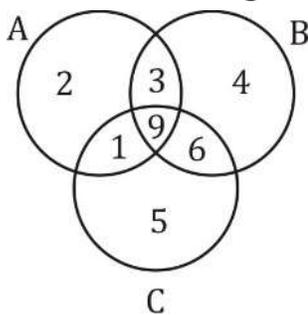
- (a) Wednesday
- (b) Friday
- (c) Thursday
- (d) Monday

Q32. In the following question select the related word from the given alternative?

GATES : JDWHV :: LINUX :

- (a) OLQXA
- (b) OLQVZ
- (c) NKQXA
- (d) NKQVZ

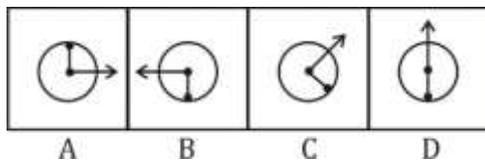
Q33. The given Venn diagram represents the sports preference of a group of school students. There are three games: A-Hockey, B-Cricket, C- Squash. How many student play at least one game?



- (a) 15
- (b) 21
- (c) 30
- (d) 25



Q34. Choose the figure which is different from the others in the given set.

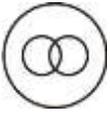


- (a) A
- (b) B
- (c) C
- (d) D

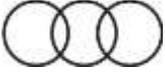
Q35. Which of the following correctly represents the relationship between.

- 1. Eyes
- 2. Forehead
- 3. Face

(a)



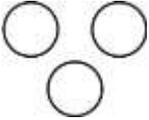
(b)



(c)



(d)



Q36. Out of the four given figures, three are similar in a certain manner. However, one figure is NOT like the other three.

R	U	M	K
20	23	15	12
A	B	C	D

(a) A

(b) B

(c) C

(d) D

Q37. Direction: There are statement(s) which are followed by conclusion(s). Choose the conclusion which logically follow from the given statements

Statement: Domestic demand has been increasing faster than the production of indigenous crude oil.

Conclusion:

I. Crude oil must be imported

II. Domestic demand should be reduced

(a) If only conclusion I follows;

(b) If only conclusion II follows;

(c) If either I or II follows;

(d) If neither I nor II follows; and

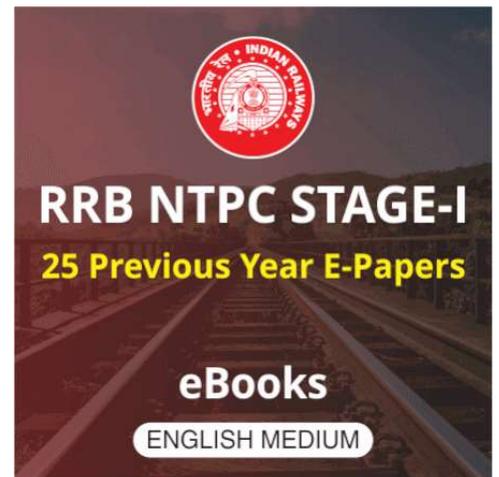
Q38. In a certain language, 'MEI TOH CHALA' is coded as 'mo to yo', 'CHALA YE BHI' is coded as 'ao mo xo', 'MEI PAR TOH' is coded as 'ho yo to', What is the code for 'YE MEI BHI' in that language?

(a) ao to xo

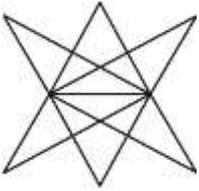
(b) ho to yo

(c) ao xo yo

(d) 'ao xo yo' OR 'ao to xo'



Q39. How many triangles are there in the following figure?



- (a) 16
- (b) 18
- (c) 22
- (d) more than 23

Q40. Choose figure that is different from the rest.

&	#	;	@	\$
a	b	c	d	e

- (a) b
- (b) c
- (c) e
- (d) a

Q41. How is Ravi related to the daughter of only daughter-in-law of wife of Ravi's father.

- (a) Husband
- (b) Son
- (c) Father
- (d) Grand Father

Q42. Direction: There are statement(s) which are followed by conclusion(s). Choose the conclusion which logically follow from the given statements

Statement: All the organised persons find time for rest. Sunita, inspite of her very busy schedule, finds time for rest.

Conclusion:

I. Sunita is an organised person

II. Sunita is an Industrious person

- (a) If only conclusion I follows;
- (b) If only conclusion II follows;
- (c) If neither I nor II follows; and
- (d) If both I and II follow

Q43. Which of the following does NOT belong to this group?

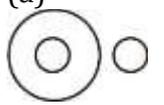
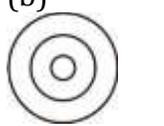
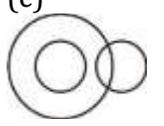
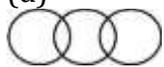
- (a) Notebook
- (b) Pen
- (c) Scale
- (d) Principal

Q44. P, Q, R, S are playing carrom sitting in clockwise direction. If R is facing North. What direction is Q facing.

- (a) East
- (b) West
- (c) North
- (d) South

Q45. Choose the best suitable venn diagram for the following words:

Rabbit, Tomato, Animals

- (a) 
- (b) 
- (c) 
- (d) 

Q46. How many times between 3'O clock and 4'O clock the hands of the clock are exactly opposite to each other?

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

Q47. Select the option figure that will complete the series of question figure.

4	5	7	4	6	7	?
7	6	6	5	5	4	

- (a)

5	4
7	6
- (b)

4	5
7	6
- (c)

5	6
4	7
- (d)

4	7
5	6

Q48. Direction: There are statement(s) which are followed by conclusion(s). Choose the conclusion which logically follows from the given statements

Statement: This book 'Z' is the only book which focuses its attention to the problem of poverty in India between 1950 to 1980.

Conclusion:

I. There was no question of poverty before 1950.

II. No other book deals with poverty in India during 1950 to 1980.

- (a) If only conclusion I follows;
- (b) If only conclusion II follows;
- (c) If neither I nor II follows; and
- (d) If both I and II follow

Q49. Final the odd one out :

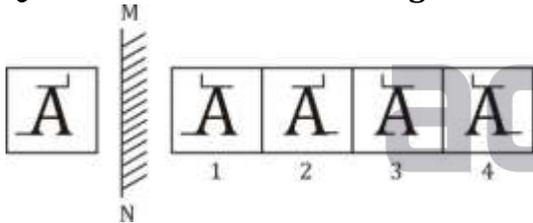
- (a) Sports – Coach
- (b) Film – Director
- (c) Book – Editor
- (d) Writing – Rider

Q50. What comes next in the given series.

18Y, 23V, 28S, ?

- (a) 34Q
- (b) 32T
- (c) 33P
- (d) 33Q

Q51. Choose the mirror image for the following figure.



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

Q52. Read the given statements and conclusions carefully and select which of the conclusions logically follow(s) statements :

All mouse are Rat

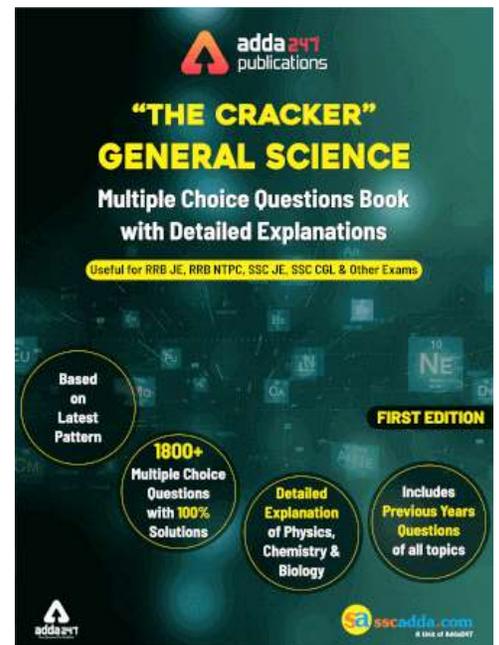
Some Rat are tiger.

Conclusion

I. Some tiger are rat

II. No mouse is tiger

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



Q53. If IRELAND is written as 9185121144, how can EGYPT be written?

- (a) 58241719
- (b) 57251620
- (c) 52241721
- (d) 57261721

Q54. 9 * 5 A # 2 \$ @ 4 3 B & D 7

If the first half of the above series is reversed then using the new series find the number of numbers that comes right of '2'.

- (a) 5
- (b) 3
- (c) 6
- (d) 4

Q55. Direction: There are statement(s) which are followed by conclusion(s). Choose the conclusion which logically follow from the given statements

Statement: The secret of success is constancy of purpose.

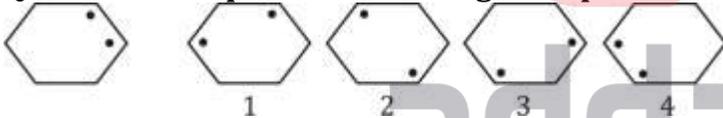
Conclusion:

I. Constant dripping wears the stone.

II. Single- minded devotion is necessary for achieving success.

- (a) If only conclusion I follows;
- (b) If only conclusion II follows;
- (c) If neither I nor II follows; and
- (d) If both I and II follow

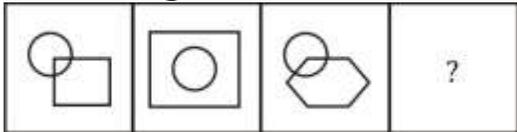
Q56. Select the pattern from the given options that resembles closest to :



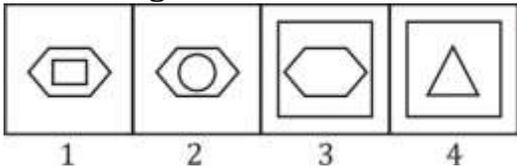
- (a) 1
- (b) 2
- (c) 3
- (d) 4

Q57. Which answer figure will come next in the given problem figure series?

Problem Figures :

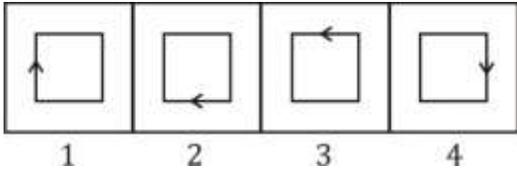


Answer Figures :



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

Q58. Find the odd one out.



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

Directions (59-60): In each question below is given a statement followed by two courses of action numbered I and II. On the basis of the information given in the statement. You have to assume everything in the statement to be true, then decide which of the two given suggested courses of action logically follows for pursuing.

Q59. Statement: The State Government has decided to declare "Kala Azar" as a notifiable disease under the Epidemics Act, 1987. Family members or neighbors of the patient are liable to be punished in case they do not inform the state authorities.

Courses of Action:

(I) Efforts should be made to effectively implement the Act.

(II) The cases of punishment should be propagated through mass media so that more people become aware of the stern action.

- (a) if only I follows
- (b) if only II follows
- (c) if neither I nor II follows
- (d) if both I and II follow

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Q60. Statement: Every year, at the beginning or at the end of the monsoons, we have some cases of conjunctivitis, but this year it seems to be a major epidemic witnessed after nearly four years.

Courses of Action:

(I) Precautionary measures should be taken after every four years to check this epidemic.

(II) People should be advised to drink boiled water during winter season.

- (a) if only I follows
- (b) if only II follows
- (c) if neither I nor II follows
- (d) if both I and II follow

Q61. Who was the first Test Centurion in Indian cricket?

- (a) Vinu Mankad
- (b) C.K Naidu
- (c) Lala Amarnath
- (d) Sunial Gavaskar

Q62. The term 'double fault' is associated with

- (a) Baseball
- (b) Tennis
- (c) Golf
- (d) Bridge

Q63. Davis cup is associated with which of the following game?

- (a) Volleyball
- (b) Badminton
- (c) Tennis
- (d) Handball

Q64. Who is the winner of Australia open 2019 in Men's?

- (a) Novak Djokovic
- (b) Rafael Nadal
- (c) Roger Federer
- (d) None of the above

Q65. When a body slides against a rough horizontal surface, the work done by friction is

- (a) Positive
- (b) Zero
- (c) Negative
- (d) Constant

Q66. Maxwell is the unit of

- (a) Intensity of magnetization
- (b) Permeability
- (c) Magnetic flux
- (d) Magnetic susceptibility

Q67. The compound which contains ionic bond is-

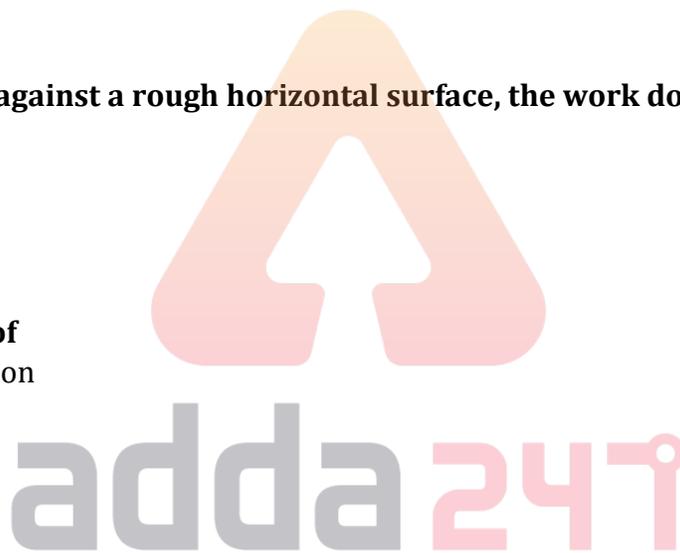
- (a) CH₄
- (b) N₂
- (c) CaCl₂
- (d) CCl₄

Q68. Metal with maximum density here is?

- (a) Fe
- (b) Mo
- (c) Hg
- (d) Os

Q69. Modern periodic law had been given by

- (a) Moseley
- (b) Mendeleev
- (c) Lothar-Mayer
- (d) Lavoisier



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Q70. Heating of a ore below its melting point in the absence of air is known as

- (a) Roasting
- (b) Smelting
- (c) Refining
- (d) Calcination

Q71. Red rust disease of tea is caused by

- (a) Bacteria
- (b) Lichen
- (c) Fungi
- (d) Green algae

Q72. Which of the following is not a root?

- (a) Potato
- (b) Carrot
- (c) Sweet Potato
- (d) Radish

Q73. What is the rank of India in the Global Innovation Index 2018?

- (a) 62nd
- (b) 74th
- (c) 57th
- (d) 96th

Q74. "Yudh Abhyas" is a joint military exercise between which countries?

- (a) India and Australia
- (b) India and USA
- (c) India and Sri Lanka
- (d) India and Bangladesh

Q75. Which is nicknamed as "Dhing - Express"?

- (a) Jhulan Goswami
- (b) Dipa karmakar
- (c) Manpreet Kaur
- (d) Hima das

Q76. National Hindi Diwas is celebrated on

- (a) 18th September
- (b) 6th July
- (c) 14th October
- (d) 14th September

Q77. The first tribal circuit project under swadesh darshan scheme is launched in which state?

- (a) Madhya Pradesh
- (b) Odisha
- (c) Chhattisgarh
- (d) Jharkhand

Q78. The Headquarters of Food and Agriculture Organization is at

- (a) Rome
- (b) London
- (c) Washington
- (d) None of the above

Q79. Which is the first country to develop document on “cooling action plan”?

- (a) Japan
- (b) China
- (c) France
- (d) India

Q80. During which dynasty, Mahaballipuram temple was constructed?

- (a) Gupta Dynasty
- (b) Pallava Dynasty
- (c) Chola Dynasty
- (d) Chalukya Dynasty

Q81. In which mountain series Kodaikanal is situated?

- (a) Annamallai Hills
- (b) Shevray Hills
- (c) Nilgiri Hills
- (d) Palani Hills

Q82. Tropical grasslands with tall grasses are found mainly in

- (a) South America
- (b) Africa
- (c) Central America
- (d) Australia

Q83. The Strait of Malacca separates

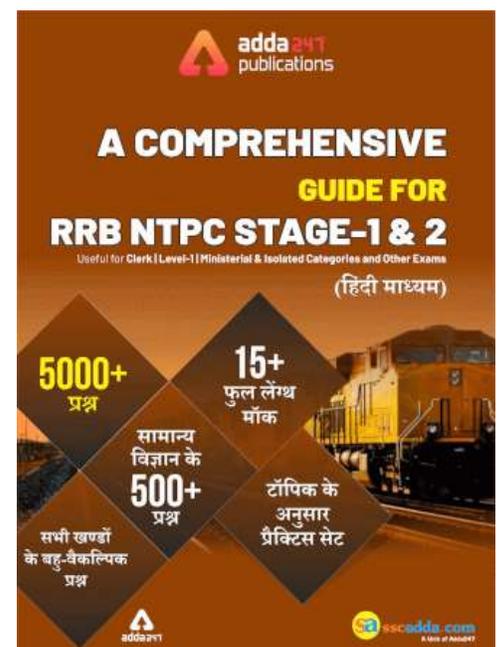
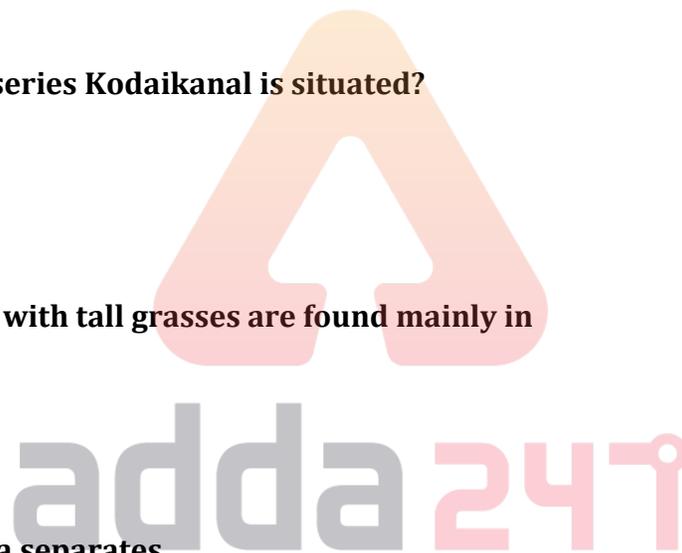
- (a) Sumatra and Malaysia
- (b) Java and Brunei
- (c) Sumatra and Java
- (d) Malaysia and Brunei

Q84. In which language were the Buddhist literary works generally written?

- (a) Prakrit
- (b) Pali
- (c) Nepalese
- (d) Sanskrit

Q85. Angkor wat temple is located

- (a) Cambodia
- (b) Thailand
- (c) Vietnam
- (d) India



Q86. "Dhamek Stupa" is located at which of the following places?

- (a) Bodh Gaya
- (b) Sarnath
- (c) Sanchi
- (d) Kaushambi

Q87. Mahabharata was also known as

- (a) Brihat Katha
- (b) Rajatarangini
- (c) Jaya Samhita
- (d) Purana

Q88. The 'Cabinet Mission' of 1946 was led by

- (a) Lord Linlithgow
- (b) Lord Mountbatten
- (c) Sir Pethick Lawrence
- (d) Sir Mountford

Q89. Who was the Guru of the music maestro Tansen?

- (a) Bisaldev
- (b) Haridas
- (c) Saint Gyaneshwar
- (d) Ramanuj

Q90. Who among following English physicist is related the 'Big Bang Theory'?

- (a) Albert Einstein
- (b) Michael Skube
- (c) George Gamow
- (d) Roger Penrose

Q91. Who invented and first patented DYNAMITE?

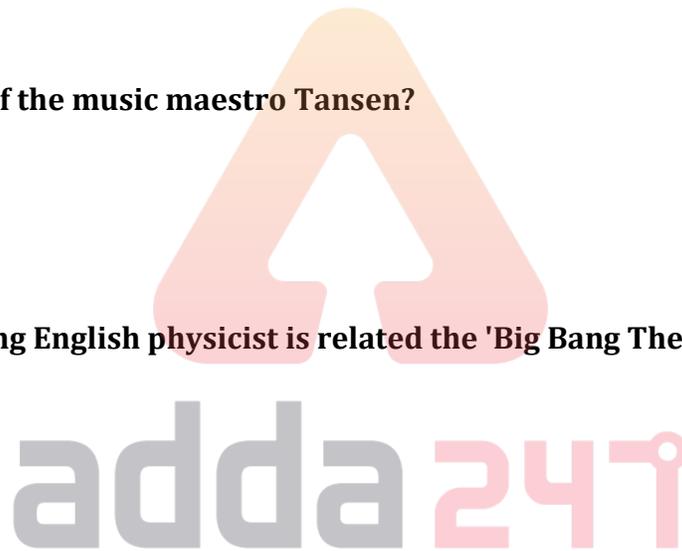
- (a) J. R. Gluber
- (b) A. Nobel
- (c) G. Fawks
- (d) W. Bickford

Q92. The main page of a Web site is known as

- (a) Home page
- (b) Book mark page
- (c) Content page
- (d) Navigator page

Q93. What is the full form of PDF

- (a) Printed Document Format
- (b) Public Document Format
- (c) Portable Document Format
- (d) Published Document Forma



Q94. Which of the following rays has the shortest wavelength?

- (a) X-rays
- (b) Gamma rays
- (c) Ultraviolet rays
- (d) Radio waves

Q95. Which of these American astronomers discovered Pluto in 1930?

- (a) Galileo Galilei
- (b) Harlow Shapley
- (c) Clyde Tombaugh
- (d) Edwin Hubble

Q96. There were five categories in Nobel Prizes in beginning. Which among the following is the sixth which was added later?

- (a) Economics
- (b) Peace
- (c) Medical Science
- (d) Literature

Q97. The first oil refinery was established at-

- (a) Barauni
- (b) Digboi
- (c) Vishakhapatnam
- (d) Mumbai

Q98. Which Constitutional Amendment Act gave constitutional recognition to municipalities?

- (a) 72nd Constitutional Amendment Act
- (b) 73rd Constitutional Amendment Act
- (c) 74th Constitutional Amendment Act
- (d) 75th Constitutional Amendment Act

Q99. Which Part of Indian Constitution deals with Centre-State financial relations?

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

Q100. Which among the following is key faunal species that is being conserved and monitored in 'Dachigam National Park'?

- (a) Musk Deer
- (b) Golden Oriole
- (c) Yellow-throated Marten
- (d) Hangul or Kashmir Stag



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