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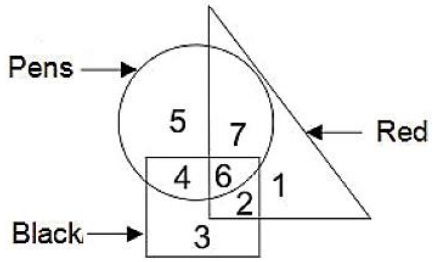
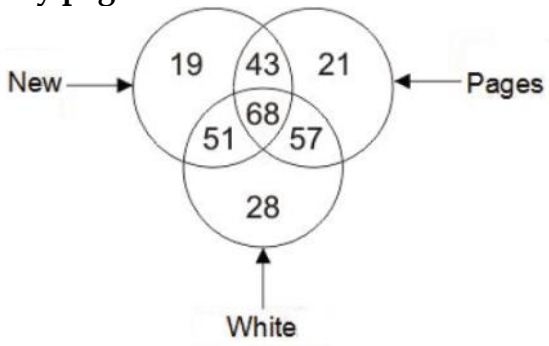
Q1. In the given figure, which number represents pens which are black not red?



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

Q2. In the given figure, how many pages are either new or white but not both?



(a) 111
(b) 100
(c) 125
(d) 168

Q3. In a certain code language, "SOULFUL" is written as "ORIIXLV" and "GATHER" is written as "OHEWXJ". How is "TIDAL" written in that code language?
(a) IDALQ
(b) WFGXO
(c) OXGFW
(d) QLADI

Q4. In a certain code language, "PLATE" is written as "32876" and "BLEND" is written as "52694". How is "DENTED" written in that code language?
(a) 869768
(b) 295329
(c) 469764
(d) 538635

Directions (5-7): One or two statements are given followed by two conclusions I and II. You have to consider the two statements to be true, even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusions can definitely be drawn from the given statements. Indicate your answer.

Q5. Statement:
All boys are honest.
Sachin is honest.
Conclusions:
I. Sachin is a boy.
II. All honest persons are boys.
(a) Only I
(b) Only II
(c) Either I or II
(d) Neither I nor II

Q6. Statements:
I. In educating their children parents has great importance.
II. Every parents should understand this.
Conclusions:
I. Children who do not have parents cannot developed themselves upto their capacity.
II. Parents help in education of their children.
(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.

Q7. Statements:
(I) Irregularity is a cause for failure in exams.
(II) Some regular students fail in the examinations.
Conclusions:
(I) All failed students are regular.
(II) All successful students are not regular.
(a) Only I follows
(b) Only II follows
(c) Neither I nor II follows
(d) Both I and II follow

Direction (8-9): In the following question, select the missing number from the given series.

Q8. 2, 6, 4, 9, 8, 13, 16, 18, 32, ?
(a) 24
(b) 26
(c) 22
(d) 28

Q9. 534, 543, 559, 584, 620, ?
(a) 648
(b) 676
(c) 669
(d) 671

Direction (10-12); In the following question, select the related word/letter/number from the given alternatives.

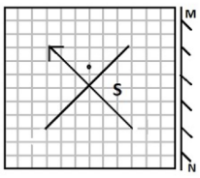
Q10. Book : Pages : : Ladder : ?
(a) Steps
(b) Walking
(c) Parts
(d) Levels

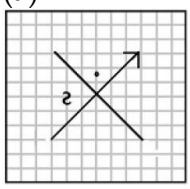
Q11. ABC : FFF : : MDP : ?
(a) RRR
(b) HHH
(c) RHS
(d) RSH

Q12. 11 : 1331 : : 12 : ?
(a) 1728
(b) 728
(c) 1528
(d) 1628

Q13.Abhinav started running from his house, he first ran for 12 km towards west, then he turned towards north and ran 16 km in that direction. How far Abhinav is from his house and in which direction?
(a) 13 km South
(b) 13 km North
(c) 15 km West
(d) 20 km North-West

Q14. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



(a)


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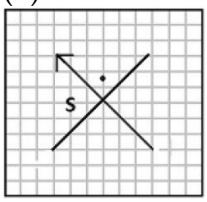
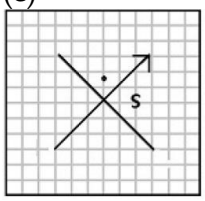
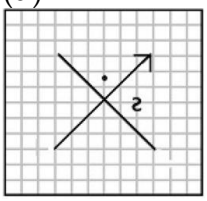


(c)



(d)



Directions (15-19) In the following question, statement(s) is/are given followed by two conclusions/assumptions, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions/assumptions can definitely be drawn from the given statement. Indicate your answer.

Q15. Statement: Some kings are queens. All queens are beautiful.
Conclusions:
I. All kings are beautiful.
II. All queens are kings
(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Either conclusion I or II follows
(d) Neither conclusion I nor conclusion II follows

Q16. Statement:No dog is a cat.
All hen are cats.
Some cap are hen.
Conclusions:
I. No hen is a dog.
II. At least some cap are cats.
(a) Only conclusion I is true
(b) Neither conclusion I nor II is true
(c) Only conclusion II is true
(d) Both conclusions I and II are true

Q17. Statements:
Some KP are CP.
No CP is a XP.
All XP are GP.
Conclusions:
I. At least some GP are CP.
II. No XP is a KP.
(a) Both conclusions I and II are true
(b) Only conclusion II is true
(c) Only conclusion I is true
(d) Neither conclusion I nor II is true

Q18. Statements:
(I) All birds are trees.
(II) Some trees are hens.
Conclusion:
(I) Some birds are hens.
(II) Some hens are trees.
(a) Conclusion I follows
(b) Conclusion II follows
(c) Neither I nor II follows
(d) Both I and II follows

Q19. Statements:
(I) Some bags are hot.
(II) All hot things are cakes.
Conclusion:
(I) All cakes are bags.
(II) All bags are cakes.
(a) Conclusion I follows
(b) Conclusion II follows
(c) Neither I nor II follows
(d) Both I and II follows

Q20. In the following question, select the missing number from the given series.

?	113	161
2	7	6
3	4	5

(a) 31
(b) 36
(c) 280
(d) 161

Q21.In the following question, correct the equation by interchanging two numbers.
3 – 4 + 12 × 6 ÷ 8 = 28
(a) 3 and 4
(b) 4 and 8
(c) 3 and 8
(d) 4 and 6

Q22. If "S" denotes "multiplied by", "V" denotes "subtracted from", "M" denotes "added to" and "L" denotes "divided by", then 12 V 3 M 441 L 21 S 8 =?
(a) 661
(b) 170
(c) 174
(d) 177

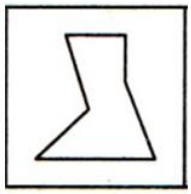
Q23. Preeti is the daughter of Rajesh and Amit is the son of Ankita. Rajesh is the only son of Rajan. Ankita is the daughter-in-law of Rajan. How is Preeti related to Amit?

(a) Sister
(b) Mother
(c) Cousin
(d) Aunt

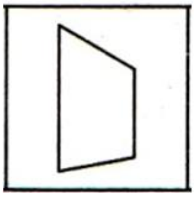
Q24. In the given figures find the odd figure out.

(a)

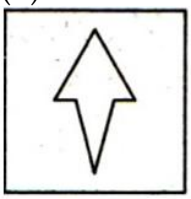
(b)



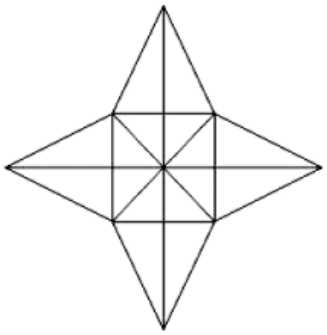
(c)



(d)



Q25. How many triangles are there in the given figure?



(a) 28
(b) 36
(c) 40
(d) 48

Q26. The current ages of Sonali and Monali are in the ratio 5 : 3. Five years from now, their ages will be in the ratio 10 : 7. Then, Monali's current age is:
(a) 3 years
(b) 5 years
(c) 9 years
(d) 15 years

Q27. The ratio of the ages of two persons is 4 : 7 and the age of one of them is greater than that of the other by 30 years. The sum of their ages (in years) is
(a) 110
(b) 100
(c) 70
(d) 40

Q28. Present ages of Rahul and sudha are in the ratio of 7 : 9 respectively. Five years ago ratio of their ages was 3 : 4. What will be Sudha's age after 3 years from now?
(a) 48 years
(b) 42 years
(c) 45 years
(d) 38 years

Q29. Arun lends Rs. 20,000 to two of his friends. He gives Rs. 12,000 to the first at 8% p.a. simple interest. Arun wants to make a profit of 10% on the whole. The simple interest rate at which he should lend the remaining sum of money to the second friend is
(a) 8%
(b) 16%
(c) 12%
(d) 13%

Q30. An amount of money at compound interest grows up to Rs. 3,840 in 4 years and up to Rs. 3,936 in 5 years. Find the rate of interest.
(a) 2.5%
(b) 2%
(c) 3.5%
(d) 2.05%

Q31. A sum of money at compound interest amounts to thrice itself in 3 years. In how many years will it be 9 times itself ?
(a) 9
(b) 27
(c) 6
(d) 3

Q32. The inner circumference of a circular path around a circular lawn is 440 m. What is the radius of the outer circumference of the path, if the path is 14 m wide?
(a) 96 m
(b) 84 m
(c) 70 m
(d) 88 m

Q33. A wire of length 22 cm and 0.2 cm in diameter is melted and recast into small balls of diameter 0.1 cm. The number of balls made is:
(a) 1225
(b) 1350
(c) 1320
(d) 1280

Q34. If the cost price of 25 pens is equal to the selling price of 20 pens, then profit percent is
(a) 20%
(b) 25%
(c) 15%
(d) 5%

Q35. A can do a piece of work in 20 days and B in 15 days. With help of C, they finish the work in 5 days. In how many days C alone can do the same work?
(a) 5 days
(b) 6 days
(c) 10 days
(d) 12 days

Q36. Shashi can do a piece of work in 20 days. Tanya is 25% more efficient than Shashi. The number of days taken by Tanya to do the same piece of work is:
(a) 15
(b) 25
(c) 18
(d) 16

Q37. 18 men or 36 boys working 6 hours a day can plough a field in 24 days. In how many days will 24 men and 24 boys working 9 hours a day plough the same field?
(a) 9
(b) 10
(c) 6
(d) 8

Q38. The length of two parallel chords of a circle of radius 5 cm are 6 cm and 8 cm in the same side of the center. The distance between them is?
(a) 1 cm
(b) 2 cm
(c) 3 cm
(d) 1.5 cm

Q39. Akash when going slower by 15 Km/hr from his original speed, reaches late by 45 hours. If he goes faster by 10 Km/hr from his original speed, he reaches early by 20 hours than the original time. Find the distance he covers.
(a) 8750 Km
(b) 9750 Km
(c) 1000 Km
(d) 3750 Km

Q40. Two trains A and B start simultaneously in the opposite direction from two points P and Q and arrive at their destinations 16 and 9 hours respectively after their meeting each other. At what speed does the second train B travel if the first train travels at 120 km/hr per hour:
(a) 90 km/hr
(b) 160 km/hr
(c) 67.5 km/hr
(d) None of these

Q41. The average age of A, B, C, D and E is 40 years. The average age of A and B is 35 years and the average age of C and D is 42 years. The age of E (in years) is:
(a) 46
(b) 48
(c) 32
(d) None of these

Q42. Radhika and Nishita invested amount of Rs. 40,000 and Rs. 75,000 respectively. At the end of five year they got a total dividend of Rs. 46,000. What is Nishita's share in the dividend?
(a) Rs. 16,500
(b) Rs. 15,500
(c) Rs. 30,000
(d) Rs. 16,000

Q43. A, B and C invested capitals in the ratio 2 : 3 : 5; the timing of their investment being in the ratio 4 : 5 : 6. In what ratio would their profit be distributed?
(a) 6 : 12 : 32
(b) 8 : 15 : 30
(c) 12 : 32 : 18
(d) 6 : 32 : 12

Q44. In a test consisting of 80 questions carrying one mark each, Arpita answers 65% of the first 40 questions correctly. What percent of the other 40 questions does she need to answer correctly to score 75% on the entire test?
(a) 60%
(b) 80%
(c) 75%
(d) 85%

Q45. The price of rice has increased by 60%. In order to restore the original price, the new price must be reduced by

(a) $33\frac{1}{3}\%$

(b) $37\frac{1}{2}\%$

(c) 40%

(d) 45%

Q46. Change in momentum is equal to?

(a) Impulse

(b) Torque

(c) Velocity

(d) Acceleration

Q47. In India frequency of AC mains is?

(a) 60Hz

(b) 240Hz

(c) 50Hz

(d) 220Hz

Q48. What is the formula of Acceleration?

(a) Change in distance / Time taken

(b) Change in displacement/ Time taken

(c) Change in velocity/ Time taken

(d) None of the above

Q49. What is the SI Unit of Energy?

(a) Joule

(b) Watt

(c) Decibel

(d) Candela

Q50.What is the SI Unit of Resistance?

(a) Walt

(b) ohm

(c) volt

(d) coulomb

Q51. Find out the work done when a force of 10N displaces a body through 8m in the direction of the applied force?

(a) 8O joules

(b) 12O joules

(c) 16O joules

(d) 26O joules

Q52. What is the chemical formula of Sodium bicarbonate?
(a) $NaHCO_3$
(b) Na_2CO_3
(c) $NaCO_3$
(d) None of the above

Q53.Who discovered DDT?
(a) Roy Plunkett
(b) John Dalton
(c) Paul Hermann Muller
(d) Alexander Fleming

Q54. What is the chemical formula of laughing gas?
(a) NaClO
(b) NO_2
(c) $Na_2S_2O_3$
(d) N_2O

Q55.What is the common name of Oil of Vitriol?
(a) Sulphuric acid
(b) Washing Powder
(c) Acetone
(d) Isopropyl alcohol

Q56.Fuse wire is made of_____?
(a) tin and lead
(b) lead and iron
(c) tin and aluminum
(d) lead and aluminum

Q57. Who discovered Insulin?
(a) Casimir Funk
(b) R. H. Whittaker
(c) Frederick Banting
(d) Robert Hooke

Q58.Which type of mirror is used in torch?
(a) Concave
(b) Convex
(c) Plane
(d) None of the above

Q59. If the lens power of glass is +2 diopter, its focal length will be-
(a) 200 cm
(b) 100 cm
(c) 50 cm
(d) 2 cm

Q60. Amoeba belongs to the phylum -
(a) Protozoa
(b) Annelida
(c) Porifera
(d) Platyhelminthes

Q61. Which of the following diseases are caused by poxviruses in humans?
(a) Pig Pox
(b) Monkey pox
(c) Cow Pox
(d) Molluscum contagiosum

Q62.Which of the following is connective tissue?
(a) Tendons
(b) Cartilage
(c) Blood
(d) All the above

Q63. Yeast is a _____.
(a) Bacteria
(b) Fungi
(c) Algae
(d) Bryophyte

Q64.Which of the following is not a plant hormone?
(a) Gibberellic
(b) Auxins
(c) Cytokinins
(d) Thyroxin

Q65.Which of the following disease is non-communicable in nature?
(a) Cholera
(b) Chicken-pox
(c) Tuberculosis
(d) Cancer

Q66. Who is the owner of KKR Team in IPL 2018?
(a) GMR Group Pvt ltd.
(b) Shah Rukh Khan
(c) Akshay Kumar
(d) Ness Wadia

Q67.Who is the current CM of Tamilnadu?
(a) H. D. Kumaraswamy
(b) D. V. Sadananda Gowda
(c) O. Panneerselvam
(d) Edappadi K Palaniswami

Q68.Who is the Chief Managing Director of SBI?
(a) Usha Ananthasubramanian
(b) Ravish Kumar
(c) Arjit Basu
(d) None of the above

Q69.Who is the president of Indian Olympic Association?
(a) Rajeev Mehta
(b) Lalit Bhanot
(c) Vijay Kumar Malhotra
(d) Abhay Singh Chautala

Q70.Who is the Governor of Chattisgarh?
(a) E. S. L. Narasimhan
(b) Satya Pal Malik
(c) Balram Das Tandon
(d) None of the above

Q71.Who founded the Ramakrishna Mission in 1896 to carry on humanitarian relief and social work?
(a) Ramakrishna Paramahansa
(b) Swami Dayananda Saraswati
(c) Swami Vivekananda
(d) Blavatsky and OlcotWho got 1st Bharat Ratna of India?

Q72.Hirakund dam is situated on which river?
(a) Bhargavi
(b) Ib
(c) Godavari
(d) Mahanadi

Q73. Who among the following heads PMO of India?
(a) Brajesh Mishra
(b) Nripendra Misra
(c) Pankaj Saran
(d) None of the above

Q74.Who is the author of "Exam warrior" Book ?
(a) Narendra Modi
(b) Sushma Swaraj
(c) Venkaiah Naidu
(d) None of the above

Q75.When is the World Population Day observed?
(a) May 31
(b) October 4
(c) December 10
(d) July 11