RRB NTPC Free Mock Plan [Held On 25-26th Jan 2020]

Q1. A travels 20 km with a speed of 40 km/hr. He travels another 45 km with a speed of 15 km/hr. what is his average speed for the entire journey?
(a) 16 km/hr.
(b) 22 km/hr.
(c) 18.5 km/hr.
(d) 21.3 km/hr.

Q2. If A : B = 3 : 2, then (3A – 2B): (2A – B) is equal to
(a) 5 : 4
(b) 7 : 3
(c) 6 : 5
(d) 3 : 1

Q3. What will be the compound interest on a sum of Rs. 21000 for 2 years at the rate of 14.28% per annum when interest is compound yearly?
(a) 6428
(b) 3162
(c) 7129
(d) 8231

Q4. Simple interest on a certain sum is equal to the sum itself. find the time if rate of interest and time are numerically equal.
(a) 5
(b) 8
(c) 10
(d) 1

Q5. Pipe A can fill a tank in 6 hours. Pipe B can fill the same tank in 10 hours – pipe A, B, C together can fill the same tank in 12 hours. In how many hours pipe C can fill the tank alone?
(a) $12\frac{1}{2}$ hours
(b) 4 hours
(c) 15 hours
(d) Not possible

Q6. By selling an article for Rs. 320, a man incurs a loss of 20%, what should be the selling price of an article to gain 30%?

(a) Rs. 520
(b) Rs. 690
(c) Rs. 550
(d) Rs. 440

Q7. The average of 12 number is 42. If a 13th number is added, then the average becomes 44. What is the 13th number?

(a) 68
(b) 72
(c) 70
(d) 74

Q8. Radius of base of a right circular cone and a sphere is each equal to r. if the sphere and cone have same volume, the what is the height of the cone?

(a) 7r
(b) 3r
(c) 4r
(d) 2r

Q9. What is single discount equivalent to two successive discounts of 15% and 20%?

(a) 32%
(b) 34%
(c) 30%
(d) 36%

Q10. Selling price of an article is $\frac{7}{6}$ of cost price. What is the profit percentage?

(a) $14\frac{2}{7}\%$
(b) $12\frac{1}{2}\%$
(c) 20%
(d) $16\frac{2}{3}\%$

Q11. What is the L.C.M of 12, 23, 24?

(a) 120
(b) 529
(c) 552
(d) 562

Q12. If the volume of two cubes are in the ratio of 343 : 512, than what is the ratio of their total surface area?

(a) 64 : 125
(b) 49 : 64
(c) 64 : 343
(d) 49 : 25

Q13. A number is first increased by 20% and then reduced by 25%. If final value is 360, then what is the initial value–
(a) 450
(b) 350
(c) 420
(d) 400

Q14. If $x + \frac{1}{x} = 3, find\ x^3 + \frac{1}{x^3}$
(a) 36
(b) 22
(c) 18
(d) 24

Directions(15-18): the table given below presents the number of books on different subjects kept on separate shelves subjects with odd and even numbers are of arts and Science respectively.

Subjects	No. of Books
S1	26
S2	29
S3	31
S4	34
S5	36
S6	38
S7	44

Q15. What is the ratio of the total numbers of books on arts to that of science?
(a) 145 : 93
(b) 137 : 101
(c) 141 : 97
(d) 149 : 89

Q16. The number of books of S2 is what percent of number of books of S6?
(a) 82.39%
(b) 76.31%
(c) 71.42%
(d) 67.42%

Q17. Find the total number of books of all subjects
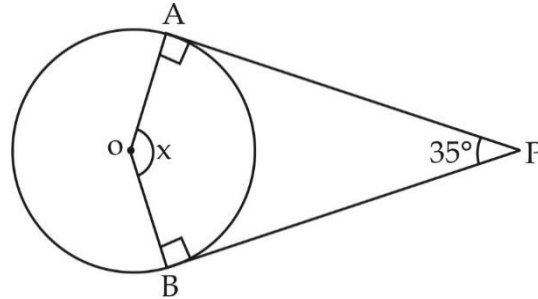(a) 218
(b) 228
(c) 238
(d) 248

Q18. Find the ratio of S1: S7.
(a) 22 : 13
(b) 11 : 17
(c) 13 : 22
(d) 17 : 11

Q19. A alone can complete a work in 15 days and B alone can complete a work in 25 days. If they work on alternate days starting with A, in how many days the work will be finished?
(a) 16 days
(b) 22 days
(c) $17\frac{1}{2}$ days
(d) $18\frac{3}{5}$ days

Q20. In the given fig, find the value of x

(a) 135°
(b) 155°
(c) 145°
(d) 70°

Q21. The ratio in which two sugar solutions of the concentration 25% and 45% are to be mixed to get a solution of concentration 30% is
(a) 4: 3
(b) 2: 7
(c) 3: 1
(d) 3: 5

Q22. If x tan45° cos30° = sin30° cos45°, then x is equal to–
(a) $\frac{1}{\sqrt{3}}$
(b) $\frac{1}{\sqrt{6}}$
(c) $\frac{1}{\sqrt{2}}$
(d) $\frac{2}{\sqrt{3}}$

Q23. If the perimeter of a semicircular field is 144 m, then the area of the field is
(a) 1232 m²
(b) 2132 m²
(c) 2398 m²
(d) 1471 m²

Q24. A trader gains 20% after selling an item at 10% discount. Find the ratio of cost price to mark price
(a) 4: 3
(b) 5: 6
(c) 3: 4
(d) 6: 5

Q25. The salaries of A, B and C are in het ratio 2: 3: 5. If the salaries are increased by 5%, 10% and 15% respectively, then the increased salaries will be in he ratio

(a) 46: 67: 113
(b) 42: 66: 115
(c) 49: 62: 117
(d) 48: 64: 115

Q26. The diameter of circle is 210 cm less than the circumference. What is the radius of the circle?
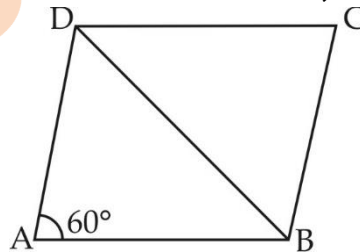
(a) 46 cm
(b) 47 cm
(c) 43 cm
(d) 49 cm

Q27. The radius of a circle is 25 cm and BC is a chord which is at a distance of 7 cm from the centre. Find the length of the chord

(a) 24 cm
(b) 48 cm
(c) 28 cm
(d) 56 cm

Q28. If $\cos\theta = \frac{3}{5}$, find $\cosec\theta + \cot\theta$

(a) ¾
(b) 1
(c) 2
(d) 0

Q29. In the adjoining figure, ABCD is a rhombus. If ⊿A= 60°, then ⊿CDB is equal to

(a) 55°
(b) 65°
(c) 45°
(d) 60°

Q30. At what percent per annum Rs. 3000 amount to be 3993 in 3yr if the interest is compounded annually?

(a) 9%
(b) 10%
(c) 11%
(d) $12\frac{1}{2}\%$

Q31. Three of the following words are alike in a certain manner and one is different.
Find the odd one out.
(a) KIWI
(b) EMU
(c) EAGLE
(d) PENGUIN

Q32. Which is the number that comes next in the following sequence?
4, 6, 12, 14, 28, 30,?
(a) 32
(b) 62
(c) 60
(d) 64

Q33. Complete the following series –
_ _ aba _ _ ba _ ab
(a) abbba
(b) abbab
(c) baabb
(d) bbaba

Q34. If in a certain code, GAMBLE is coded as FBLCKF, how is FLOWER coded in that code?
(a) GKPVFQ
(b) EMNXDS
(c) EMNYDS
(d) GKPUFV

Q35. If GIVE is coded as 5137 and BAT is coded as 924, how is GATE coded?
(a) 5427
(b) 5724
(c) 5247
(d) 2547

Q36. If lead is called stick, stick is called nib, nib is called needle, needle is called rope, and rope is called thread, what will be fitted in a pen to write with it?
(a) Needle
(b) Thread
(c) Rope
(d) Lead

Q37. If 'nso ptr kli chn' stands for 'sharma gets marriage gift', 'ptr inm wop chn' stands for 'wife gives marriage gift', 'tti wop nhi' stand for he gives nothing', what would mean gives?
(a) Chn
(b) nhi
(c) ptr
(d) wop

Q38. Pointing to a photograph, a man said, "I have no brother or sister but that man's father is my father's son. "whose photograph was it?
(a) His father's
(b) His son's
(c) His nephew's
(d) His own

Q39. Aman starts from a point A towards south. To reach a point B. from there he turned 270° anticlockwise and walk to reach a point C. in which direction is he facing now?
(a) East
(b) North-West
(c) West
(d) South-East

Q40. In each of the following questions one/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 have to decide which of the given conclusions, if any, follow from the given statements.
Statement: Some books are Magazines
Some magazines are Novels
Conclusion
(I) Some books are Novels
(II) Some Novels are Magazines
(a) Only (I) follows
(b) Only (II) follows
(c) Either (I) or (II) follows
(d) Neither (I) nor (II) follows

Q41. Six laptops O, R, Q, M, S and B are placed in a row facing towards the north (Not necessarily in the same order).
O is placed to the immediate left of B. S is placed second to the left of R. Q is placed second to the right of B. Q is placed to the immediate right of S. M is placed to the left of O.
Which laptop is placed to the immediate right of M.?
(a) B
(b) R
(c) Q
(d) O

Q42. If two signs, '+ and ÷' are interchanged, which of the following equation will be correct?
(a) 16 ÷ 9 + 4 × 8 = 34
(b) 16 ÷ 21 + 13 × 26 = 56
(c) 13 × 9 + 16 ÷ 2 = 125
(d) 11 + 13 × 4 ÷ 2 = 37

Q43. A paper is folded and cut as shown below.How will it appear when unfolded?

(a)

(b)

(c)

(d)
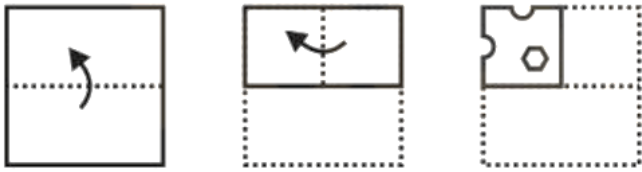
Q44. Select the number that can replace the question mark (?) in the following series
35, 48, 62, 77, 93,?
(a) 110
(b) 119
(c) 120
(d) 109

Q45. Select the option figure that will come next In the following series.

(a)

(b)

(c)

(d)

Q46. Identify the Venn diagram that best represents the relationship between the given classes Painter, Lawyer, Singer
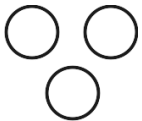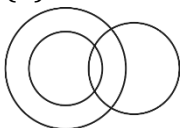
(a)

(b)

(c)

(d)

Q47. Select the letter-pair that can replace he question mark (?) in. the following series

BA, DC, FE, HG,   , LK

(a) IJ

(b) JI

(c) LM

(d) ML

Q48. Select the word pair in which the two words are related in the same way as the two words in the following word-pair.
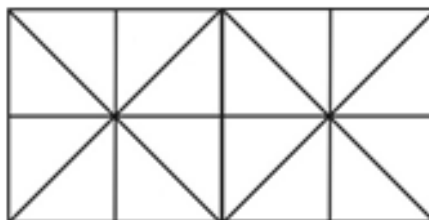
Six : Hexagonal

(a) Pentagon : Five

(b) Three : square

(c) Twelve : Dodecagon

(d) Four : Triangle

Q49. Study the given pattern carefully and select the number that can replace the question mark (?) in it

9	2	3	42
6	2	5	39
8	9	7	?

(a) 72

(b) 56

(c) 82

(d) 64

Q50. How many triangles are there in the given figure?

(a) 32

(b) 34

(c) 38

(d) 36

Q51. Select the correct mirror image of the given figure when mirror is placed at line AB.

(a)

(b)

(c)

(d)

Directions(52-53): select the option in which the letter/numbers share the same relationship as that shared by the given pair of letters/numbers.

Q52. HP : MU
(a) RJ : KC
(b) MQ : OY
(c) WQ : RF
(d) EA : JB

Q53. 5 : 125
(a) 9 : 729
(b) 11 : 12321
(c) 16 : 286
(d) 19 : 261

Q54. Which digit will appear on the face opposite to the face number 4?
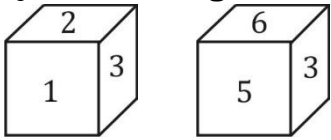
(a) 5

(b) 3

(c) 6

(d) 2/3

Q55. Doctor is related to patient in the same way as lawyer is related to ......?

(a) Customer

(b) Accused

(c) Magistrate

(d) Client

Directions(56-58): Find the odd one out

Q56.

(a) Carrot

(b) Potato

(c) Tomato

(d) Ginger

Q57.

(a) China : Beijing

(b) Russia : Moscow

(c) Japan : Singapore

(d) Spain : Madrid

Q58.

(a) 83 - 75

(b) 58 - 50

(c) 49 - 42

(d) 25 - 17

Directions(59-60): complete the series.

Q59. 3, 6, 18, 72,?

(a) 144

(b) 360

(c) 216

(d) 288

Q60. A, E, ?, O, U

(a) M

(b) J

(c) N

(d) I

Q61. Who among the following Mughal kings had sent Raja Ram Mohan Roy as his envoy to London?
(a) Alamgir II
(b) Shah Alam II
(c) Akbar II
(d) Bahadur Shah II

Q62. E.V. Ramaswamy Naicker is associated with which of the following movements?
(a) Self-respect movement
(b) Viacom movement
(c) Justice movement
(d) Ezhava movement

Q63. Who presided over the first session of the Indian National Congress?
(a) A.O. Hume
(b) Surendranath Banerjee
(c) W.C. Banerjee
(d) Badruddin Tayyabji

Q64. Which one of the following party was founded by Subhash Chandra Bose?
(a) Abhinav Bharat
(b) Azad Hind Sena
(c) Revolutionary Army
(d) Forward Block

Q65. The famous work 'Anandmath' was written by -
(a) Aurobindo
(b) Bankim Chandra Chatterjee
(c) Rabindra Nath Tagore
(d) Aarti Chaudhary

Q66. The Swadeshi Boycott Movement is related to -
(a) Partition of Bengal in 1947
(b) Partition of Bengal in 1905
(c) Non-cooperation movement in 1921
(d) Partition of Punjab in 1947

Q67. Mutiny of 1857 was described as the First Indian War of Independence by -
(a) Bal Gangadhar Tilak
(b) Subhash Chandra Bose
(c) Bhagat Singh
(d) V. D. Savarkar

Q68. Which part of Indian constitution deals with Union Territories?

(a) Part VI

(b) Part VII

(c) Part VIII

(d) Part IX

Q69. The Chief Election Commissioner of India holds the office for _____.

(a) 60 years of age or for six years, whichever early

(b) 65 years of age or for six years, whichever early

(c) 70 year of age or for six years, whichever early

(d) 55 year of age or for five years, whichever early

Q70. Match the following

Body	Type
I. Panchayati Raj	1.Non-constitutional
II Election Commission	2.Local government
III. Central Information Commission	3.Constitutional

(a) I – 1, II – 2, III – 3

(b) I – 2, II – 1, III – 3

(c) I – 2, II – 3, III – 1

(d) I – 1, II – 3, III – 2

Q71. Anti-defection law was passed in which Constitutional Amendment Act?

(a) 41st Constitutional Amendment Act

(b) 46th Constitutional Amendment Act

(c) 48th Constitutional Amendment Act

(d) 52th Constitutional Amendment Act

Q72. If any Fundamental Right of a citizen is breached, then under Article 32 of Indian Constitution he can directly go to the _____.

(a) Chief Minister of state

(b) Prime Minister of India

(c) Supreme Court of India

(d) Governor of state

Q73. In Indian parliamentary system, the leader of the largest opposition party having not less than _____ seats of total strength of the house is recognized as the leader of the opposition in that House.

(a) 1/10th

(b) 1/9th

(c) 1/8 th

(d) 1/7 th

Q74. How many members are nominated in Rajya Sabha and Lok Sabha respectively by the President of India?

(a) 2, 12
(b) 12, 2
(c) 10, 20
(d) 20, 10

Q75.Who appoints Chairman of Union Public Service Commission in India?

(a) Prime Minister of India
(b) Home Minister of India
(c) President of India
(d) Chief Election Commissioner of India

Q76. Under which Article of Indian Constitution an emergency can be declared on the grounds of failure of constitutional machinery in the States?

(a) Article 350
(b) Article 352
(c) Article 356
(d) Article 368

Q77. In India, the first hour of every Parliamentary sitting is allotted for _____.

(a) Question hour
(b) Half an hour
(c) Zero hour
(d) No option is correct

Q78. Who summons the joint sitting of both the houses of the Indian Parliament?

(a) Prime Minister of India
(b) President of India
(c) Speaker of Lok Sabha
(d) Chairman of Rajya Sabha

Q79. Article 36 to Article 51 of Indian Constitutional mainly deals with Directive Principles of State Policy, given in _____ of Indian Constitution.

(a) Part II
(b) Part III
(c) Part IV
(d) Part V

Q80. Who's salary is charged on the consolidate fund of India?
I. Chairman of UPSC
II. President of India
III. Judges of Supreme Court

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

Q81.Which of the following states/union territories has a common High Court?

(a)**U**ttar Pradesh and Bihar

(b)**P**unjab and Jammu and Kashmir,

(c)**A**ndaman Nicobar and West Bengal

(d)Assam and Bengal

Q82.The salaries and allowances of the High Court judges are charged to

(a) the Consolidated Fund of the State

(b) the Consolidated Fund of India

(c) the Contingency Fund of India

(d) the Consolidated Fund of India and the Consolidated Fund of the State in equal proportion

Q83. The Equator does NOT pass through which of the following countries?

(a) Kenya

(b) Mexico

(c) Indonesia

(d) Brazil

Q84. A cyclone is known by different names in different parts of the world. It is called a '_____' in Japan and Philippines.

(a) Funnel

(b) Whirlpool

(c) Twister

(d) Typhoon

Q85. What is called the cup or bowl shaped opening of a volcano?

(a) Cinder vent

(b) Origin center

(c) Epicenter

(d) Crater

Q86. The ozone layer protects us from harmful _____ rays of the sun.

(a) Infrared

(b) Cosmic

(c) Gamma

(d) Ultraviolet

Q87.Which of the following pairs is NOT correctly matched?

(a) Etna: Italy

(b) Fujiyama: Japan

(c) Popa : Myanmar

(d) Krakatau: Malaysia

Q88. What is called the residual eroded mounds sporadically located in Karst Plains?

(a) Monadnock

(b) Pediplain

(c) Hum

(d) No option is correct

Q89. Soil contains decayed remains of living organisms. This is called _____.

(a) Minerals

(b) Biosphere

(c) Saline soil

(d) Humus

Q90. What is called the hot dry local winds blowing in the northern part of Alps mountain?

(a) Chinook

(b) Foehn

(c) Khamsin

(d) Sirocco

Q91.During the day, the direction of the wind would be from the _____.

(a) Sea to the land

(b) Land to the sea

(c) Valleys to the mountains

(d) Mountains to the valleys

Q92.Which of the following is NOT correctly matched?

(a) Khamsin – Egypt

(b) Chinook – China

(c) Sirocco – Italy

(d) Ghibli – Libya

Q93.Which geographical division of India is the oldest?

(a) Northern mountainous region

(b) Ganga-Brahmaputra Plain

(c) Peninsular

(d) Coastal plain

Q94.How did the Lakshadweep islands of group originate?

(a) Volcanic origin

(b) Soil Deposition

(c) Coral origin

(d) No option is correct

Q95. Where is the origin of Ganga and Brahmaputra Rivers are situated respectively?

(a) In Nepal and Tibet

(b) In Tibet and Sikkim

(c) In Uttar Pradesh and Tibet

(d) Uttarakhand and Tibet

Q96. Pulitzer Prize is awarded for outstanding work in the field of

(a) Science and Technology

(b) Environmental Studies

(c) Literature and Journalism

(d) International Understanding

Q97. Ottawa is the Capital of which of the following country?

(a) Netherlands

(b) Australia

(c) Austria

(d) Canada

Q98. Which city is served by Lokpriya Gopinath Bordoloi International Airport?

(a) Ahmedabad

(b) Guwahati

(c) Kozhikode

(d) Kochi

Q99. The Sun temple is situated in the small town of Konark, which is located at?

(a) Puri, Odisha

(b) Deoghar, Jharkhand

(c) Nainital, Uttrakhand

(d) Mathura, Uttar Pradesh

Q100. Headquarter of Indian Space Research Organisation is in which of the following city?

(a) Mumbai

(b) New Delhi

(c) Bengaluru

(d) Dehradun