

RRB NTPC Memory Based Model Paper Based on Feb 09 Exam



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Logical Reasoning

1) Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All R is T

Some T is not Y

Conclusions:

I. Some R is Y

II. Some Y is not T

III. Some R is not Y

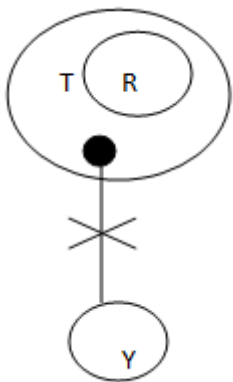
a) Neither I nor III follows

b) Either I or III follows

c) Both I and II follows

d) None follows

Answer: B)



I. Some R is Y - False

II. Some Y is not T - False

III. Some R is not Y - False

But I and III form a complementary pair.

Hence, either I or III follows.

Among P, Q, R, S and T, each one is having a different height Q is shorter than only T and S is shorter than P and Q. Who among them is the shortest?

a) R

b) S

c) P

d) Q

Answer: A)

$T > Q > P > S > R$

R is the shortest.

A statement is given followed by two conclusions.

Candidate is required to grasp the statement and analyses the problem or policy it mentions and then decide which course of action logically follows.

Statement:

All sports person are healthy. Deepak is not a sports person.

Conclusions:

I. Deepak is not healthy.

II. Deepak can never be a sports person.

a) Only I follow

b) Only II follows

c) Both I and II follows

d) Neither I nor II follows

Answer: D)

I. Deepak is not healthy. - False

It cannot be concluded from the given statement.

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II. Deepak can never be a sports person. - False
Deepak is not a sports person but it is not mentioned that he can never be a sports person.
So, neither I nor II follows.

Find the missing number in the diagram given below.

13	34	442
19	4	76
31	56	?

- a) 1526
- b) 1376
- c) 1736
- d) 1256

Answer: C)

1st row: $13 \times 34 = 442$

2nd row: $19 \times 4 = 76$

3rd row: $31 \times 56 = 1736$

Statements followed by some conclusions are given below.

Statements:

1. If all players play of their full potential, we will win the match.
2. We have won the match.

Conclusions:

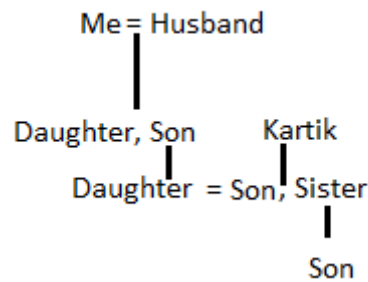
- I. All players played to their full potential.
 - II. Some players did not play to their full potential
- a) Only conclusion I follows
 - b) Only conclusion II follows
 - c) Either conclusion I or II follows
 - d) None of the conclusion follows

Answer: A)

. If my son's daughter is the daughter-in-law of Kartik, then how is Kartik's daughter's son is related to my husband's only daughter?

- a) Son
- b) Grandmother
- c) Grandson
- d) Nephew

Answer: C)



The son of Kartik's daughter is grandson of my husband's only daughter.

Select the number-pair in which the two numbers are related in the same way as are the two numbers of the given number pair.

- 12 : 576
- a) 18 : 324
 - b) 7 : 343
 - c) 16 : 1024
 - d) 21 : 442

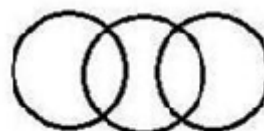
Answer: C)

$12 : 576 \rightarrow 12 : (12 + 12)^2$

$16 : 1024 \rightarrow 16 : (16 + 16)^2$

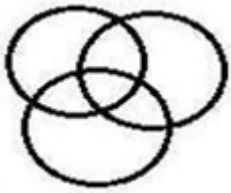
. Identify the diagram that best represents the relationship among the given classes.

Women, player, mother

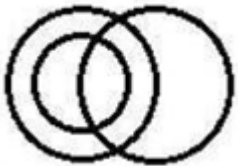


a)

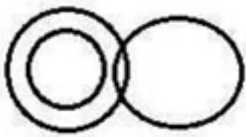
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b)

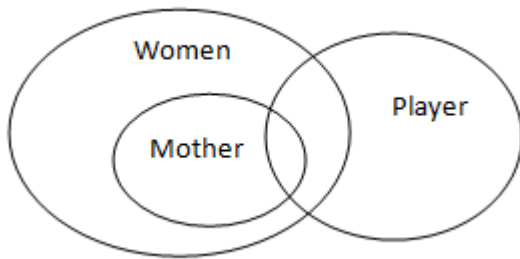


c)



d)

Answer: C)



Mathematics

1. A train travels a certain distance with speed of 45 kmph in 64 sec. Find the distance.

- a) 0.8 km
- b) 0.9 km
- c) 1.8 km
- d) 1.2 km

Answer: A

$$\begin{aligned} \text{Distance} &= \text{Speed} \times \text{Time} \\ &= 45 \times 64/3600 \\ &= 0.8 \text{ km} \end{aligned}$$

2. $x \times y = x + y + \sqrt{xy}$. Find the value of 6×24 .

- a) 12
- b) 42
- c) 30

d) 23

Answer: B

$$\begin{aligned} 6 \times 24 &= 6 + 24 + \sqrt{6 \times 24} \\ &= 30 + \sqrt{144} \\ &= 30 + 12 \\ &= 42 \end{aligned}$$

3. Simplify: $\sqrt{2} + \sqrt{2} + 2 \times \cos 4\theta$.

- a) $2 \tan \theta$
- b) $2 \sin \theta$
- c) $2 \cos \theta$
- d) $2 \operatorname{cosec} \theta$

Answer: C

$$\begin{aligned} \sqrt{2} + \sqrt{2} + 2 \times \cos 4\theta \\ \cos 2\theta &= 2 \times \cos^2 \theta - 1 \\ \cos 4\theta &= 2 \times \cos^2 2\theta - 1 \\ \sqrt{2} + \sqrt{2} \times (1 + \cos 4\theta) \\ &= \sqrt{2} + \sqrt{2} \times (1 + 2 \times \cos^2 2\theta - 1) \\ &= \sqrt{2} + \sqrt{2} \times 2 \times \cos 2\theta \\ &= \sqrt{2} + 2 \times \cos 2\theta \\ &= \sqrt{2} + 2 \times (2 \times \cos^2 \theta - 1) \\ &= \sqrt{2} + 4 \times \cos^2 \theta - 2 \\ &= 2 \cos \theta \end{aligned}$$

4. Ratio of Income of A and B is 4 : 5. A's income increases by 10% and B's income increases by 20%. Find the new ratio.

- a) 17 : 19
- b) 14 : 16
- c) 12 : 15
- d) 11 : 15

Answer: D

$$\begin{aligned} I_1 : I_2 &= 4 : 5 \\ \text{New ratio} &= I_1 : I_2 = 400 \times 110/100 : 500 \times 120/100 \\ &= 440 : 600 \\ &= 11 : 15 \end{aligned}$$

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5. A can take 15 days to complete the work. B can take 20 days to complete the work. How many days together take to complete the work?

- a) 8 (1/7) days
- b) 8 (2/7) days
- c) 8 (3/7) days
- d) 8 (4/7) days

Answer: D

A's one day work = $1/15$

B's one day work = $1/20$

(A + B)'s one day work = $1/15 + 1/20$

= $(4 + 3)/60$

= $7/60$

A and B take $60/7$ days = 8 (4/7) days

6. A can complete the work in 18 days. B can complete the work in 12 days. A work for 3 days and left the work. B completes the remaining work in how many days?

- a) 12 days
- b) 10 days
- c) 15 days
- d) 14 days

Answer: B

A's one day work = $1/18$

B's one day work = $1/12$

A work for 3 days = $1/18 \times 3 = 1/6$

Remaining work = $1 - 1/6 = 5/6$

B's one day work = $1/12$

B completes the remaining work = $1/12 \times 6/5 = 1/10$

B takes 10 days to complete the work.

7. In $\triangle ABC$, $\angle A$ is more than $\angle B$ by 12° and ratio of angle C and B is 4 : 1. Find $\angle A$, $\angle B$ and $\angle C$.

- a) 40° , 35° , 56°
- b) 30° , 42° , 80°
- c) 40° , 28° , 112°

d) 40° , 112° , 28°

Answer: C

According to the question,

$$\angle A = \angle B + 12^\circ$$

$$\angle C : \angle B = 4 : 1$$

$$\text{So, } \angle C = 4 \times \angle B$$

$$\angle A + \angle B + \angle C = 180^\circ$$

$$\angle B + 12^\circ + \angle B + 4\angle B = 180^\circ$$

$$6 \times \angle B + 12^\circ = 180^\circ$$

$$6 \times \angle B = 180^\circ - 12^\circ$$

$$6 \times \angle B = 168^\circ$$

$$\angle B = 28^\circ$$

$$\angle A = \angle B + 12^\circ = 28^\circ + 12^\circ = 40^\circ$$

$$\angle C = 4 \times \angle B = 4 \times 28^\circ = 112^\circ$$

8. Ratio of three numbers is 1 : 2 : 3. HCF is 12. Find the numbers.

- a) 2, 4, 8
- b) 5, 15, 10
- c) 6, 12, 18
- d) 12, 24, 36

Answer: D

Numbers = 1×12 , 2×12 , 3×12

= 12, 24, 36

9. Find the value of $\sin^{-1}(1/\sqrt{2})$.

- a) $\pi/4$
- b) $\pi/2$
- c) $\pi/3$
- d) $\pi/8$

Answer: A

$$\sin^{-1}(1/\sqrt{2}) = \theta$$

$$1/\sqrt{2} = \sin \theta$$

$$\theta = 45^\circ = \pi/4$$

10. Find the sum of the complementary angle of 15° and supplementary angle of 125° .

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- a) 190°
- b) 170°
- c) 150°
- d) 130°

Answer: D

Complementary angle of 15° = 75°

Supplementary angle of 125° = 55°

Sum = 75° + 55° = 130°

11. Simplify: $(0.2 \times 0.2 + 0.02 \times 0.02 - 0.4 \times 0.2)/0.36$.

- a) 0.20
- b) 0.09
- c) 0.12
- d) 0.16

Answer: B

$(0.2 \times 0.2 + 0.02 \times 0.02 - 0.4 \times 0.2)/0.36$

$= [0.2 - 0.02]^2/0.36$

$= (0.18 \times 0.18)/0.36$

$= 0.09$

12. What should be added with 1300 to make it perfect square?

- a) 37
- b) 69
- c) 27
- d) 56

Answer: B

$1300 + x = \text{perfect square}$

$1300 + 69 = 1369 = \text{perfect square} = 37^2$

13. A number when subtracted from 40 is equal to 60% of a number. Find the number.

- a) 100
- b) 200
- c) 300
- d) 400

Answer: A

According to the question,

$$x - 40 = 60\% \text{ of } x$$

$$x - 40 = 60/100 \times x$$

$$x - 40 = 3x/5$$

$$x - 3x/5 = 40$$

$$(5x - 3x)/5 = 40$$

$$2x/5 = 40$$

$$x = 5 \times 20$$

$$x = 100$$

14. Simplify: $\cos x \times [\sec^{-1} x + \operatorname{cosec}^{-1} x]$.

- a) 0
- b) 1
- c) 2
- d) 3

Answer: A

$$\sec^{-1} x + \operatorname{cosec}^{-1} x = \pi/2$$

$$\cos(\pi/2) = 0$$

15. Calculate compound interest on Rs. 1025/- for 2 year at the rate of 5%.

- a) Rs. 100.0625/-
- b) Rs. 105.0625/-
- c) Rs. 102.0625/-
- d) Rs. 115.0625/-

Answer: B

$$CI = 1025 \times (1 + 5/100)^2 - 1025$$

$$= 1025 \times (1 + 1/20)^2 - 1025$$

$$= 1025 \times (21/20)^2 - 1025$$

$$= 1025 \times (441/400 - 1)$$

$$= 1025 \times 41/400$$

$$= 105.0625/-$$

16. A is 50% efficient than B, C take half time as A and B.

C complete the work in 40 days. Together complete the work in how many days.

- a) 20/3 days

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b) 50/3 days

c) 80/3 days

d) 70/3 days

Answer: C

$$A + B = 2 \times C = 2 \times 40 = 80 \text{ days}$$

Efficiency of A and B is 1 and C is 2

Total work = 80/3 days

17. $BA \times B3 = 57A$. Find the value of A and B.

a) 5 and 3

b) 3 and 4

c) 6 and 7

d) 8 and 3

Answer: A

$$BA \times B3 = 57A$$

$$25 \times 23 = 575$$

18. A train A travels with a speed of 3 kmph and B travels with a speed of 3.75 kmph. Difference between times is $\frac{1}{2}$ hour. Find the distance.

a) 4 km

b) 5.5 km

c) 6 km

d) 7.5 km

Answer: D

$$\text{Distance} = \text{Speed} \times \text{Time}$$

$$= (3 \times 3.75) / 0.75 \times (1/2)$$

$$= 7.5 \text{ km}$$

19. Difference between selling price at 5% profit and 8% loss is Rs. 104/-. Find the cost price.

a) Rs. 850/-

b) Rs. 900/-

c) Rs. 700/-

d) Rs. 800/-

Answer: D

According to the question,

$$105/100 \times CP - 92/100 \times CP = 104$$

$$105 \times CP - 92 \times CP = 10400$$

$$13 \times CP = 10400$$

$$CP = 10400/13$$

$$CP = \text{Rs. } 800/-$$

20. What should be multiply with 294 so that it will be a perfect square?

a) 2

b) 4

c) 6

d) 8

Answer: C

According to the question,

$$294 \times x = \text{perfect square}$$

$$294 = 2 \times 7 \times 7 \times 3$$

So, 6 is multiply with 294 to make it perfect square.

21. Solve: $(1/5x - 1/6y) \div (6y - 5x)$.

a) $(6x - 5y)$

b) $1/30$

c) $1/30xy$

d) $1/xy$

Answer: C

$$(1/5x - 1/6y) \div (6y - 5x)$$

$$= (6y - 5x) / 30xy \div (6y - 5x)$$

$$= 1/30xy$$

22. $1/5 \times 3/5 \times x = 15$. Find the value of x.

a) 130

b) 125

c) 145

d) 155

Answer: B

$$1/5 \times 3/5 \times x = 15$$

$$3/25 \times x = 15$$

$$1/25 \times x = 5$$

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$$x = 5 \times 25 = 125$$

23. Find the mean, median and mode of series 1, 2, 2, 3, 3, 3, 4, 4, 4, 5, 5, 5, 6, 6, 6, 8.

- a) 4, 3, 2
- b) 4, 4, 3
- c) 3, 3, 3
- d) 4, 4, 4

Answer: B

$$\text{Mean} = (1 + 2 + 2 + 3 + 3 + 3 + 4 + 4 + 4 + 5 + 5 + 5 + 6 + 6 + 8) / 13 = 52 / 13 = 4$$

$$\text{Median} = (4 + 4) / 2 = 4$$

$$\text{Mode} = 3$$

24. Cost price of 120 gram article is equal to selling price of 150 gram article. Find the profit or loss percent.

- a) 15%
- b) 20%
- c) 25%
- d) 30%

Answer: B

According to the article,

$$120 \times \text{CP} = 150 \times \text{SP}$$

$$\text{SP} / \text{CP} = 120 / 150 = 4 / 5$$

$$\text{Loss}\% = (\text{CP} - \text{SP}) / \text{CP} \times 100$$

$$= (1 - \text{SP} / \text{CP}) \times 100$$

$$= (1 - 4 / 5) \times 100$$

$$= 100 / 5$$

$$= 20\%$$

25. How many numbers from 1 to 100 which is divisible by 3 and 4?

- a) 4
- b) 6
- c) 8
- d) 10

Answer: C

$$\text{LCM of 3 and 4} = 12$$

$$100 / 12 = 8$$

26. Find the root of $x^2 - 7x + 12$.

- a) 3 and 4
- b) 4 and 5
- c) 5 and 6
- d) 6 and 7

Answer: A

$$x^2 - 7x + 12$$

$$= x^2 - 3x - 4x + 12$$

$$= x(x - 3) - 4(x - 3)$$

$$= (x - 3)(x - 4)$$

Roots are 3 and 4.

27. Radius is equal to height. Find the ratio of volume of cylinder to volume of cone.

- a) 3 : 4
- b) 3 : 1
- c) 1 : 3
- d) 4 : 3

Answer: B

$$\text{Volume of Cylinder} : \text{Volume of Cone} = \pi r^2 h : 1/3 \times \pi r^2 h$$

$$= 3 : 1$$

28. A bacteria increases at 6% rate in 10 minutes. In next 10 minutes it will increase at 10%. At what rate bacteria increase at 20 minutes?

- a) 15%
- b) 16%
- c) 16.6%
- d) 15.4%

Answer: C

$$\text{Percent Increases} = 6 + 10 + (6 \times 10) / 100$$

$$= 16 + 0.6$$

$$= 16.6\%$$

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29. Ratio of A : B is 3 : 4 and D : B is 4 : 3. Find the ratio of A and D.

- a) 2 : 9
- b) 9 : 16
- c) 3 : 4
- d) 4 : 3

Answer: B

$$A : B = 3 : 4$$

$$D : B = 4 : 3$$

$$\text{So, } B : D = 3 : 4$$

$$A : B : D = 9 : 12 : 16$$

$$A : D = 9 : 16$$

30. $\frac{3}{5}$ th of page equal to 75 pages. Find out the remaining pages.

- a) 50 pages
- b) 20 pages
- c) 30 pages
- d) 125 pages

Answer: A

Let x be the total number of pages,

According to the question,

$$\frac{3}{5} \times x = 75$$

$$x = 125$$

$$\text{Remaining} = 125 - 75 = 50 \text{ pages}$$

General awareness

1) Who was defeated by Chhatrapati Shivaji in the Battle of Pratapgad?

- a) Afzal Khan
- b) Inayat Khan
- c) Siddi Masud
- d) Kartalab Khan

Answer: a)

The Battle of Pratapgad was a battle fought on 10 November 1659 at the fort of Pratapgad near the town of

Satara, Maharashtra between the forces of the Marathas under the Maratha king Shivaji and the Adilshahi troops under the Adilshahi general Afzal Khan. The Marathas defeated the Adilshahi forces.

It was their first significant military victory against a major regional power and led to the eventual establishment of the Maratha Empire.

2) Who scaled Mount Everest for the 23rd time recently breaking his own record in reaching atop the world's highest peak?

- a) Sonam Palzor Sarapa
- b) Kami Rita Sherpa
- c) Mohan Singh Gunjyal
- d) Kunga Bhutia

Answer: b)

Kami Rita is a Nepali Sherpa guide who, since May 2018, has held the record for most ascents to the summit of Mount Everest. He scaled Mount Everest for the 23rd time in 2019 breaking his own record in reaching atop the world's highest peak.

3) Which country won the ICC Women's T20 World Cup 2020?

- a) England
- b) India
- c) Australia
- d) South-Africa

Answer: c)

The 2020 ICC Women's T20 World Cup was the seventh ICC Women's T20 World Cup tournament. It was held in Australia and the final took place at the Melbourne Cricket Ground on International Women's Day. Australia defeated India and won the tournament for the fifth time.

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4) Shanghai Cooperation Organisation (SCO) summit 2019 was held in_____.

- a) Bishkek, Kyrgyzstan
- b) Dushanbe, Tajikistan
- c) Qingdao, China
- d) Ufa, Russia

Answer: a)

The 19th annual Shanghai Cooperation Organisation (SCO) summit was held in 2019 in Bishkek, Kyrgyzstan. The heads of the Member States reviewed the implementation of the results of the Qingdao Summit and the priority goals for SCO development in the context of current global political and economic processes.

5) Mountain ranges in the eastern part of India forming a boundary with Myanmar are collectively called as?

- a) Sahyadri
- b) Purvanchal
- c) Karakoram
- d) Vindhyas

Answer: b)

The Purvanchal Range, or Eastern Mountains, is a sub-mountain range of the Himalayas in northeast India. It lies south of the Brahmaputra valley. The range is an eastern extension of the Himalayan Range System, in north eastern India. It bends sharply to the south beyond the Dihang River gorge, and spreads along the eastern boundary of India with Myanmar.

6) Who is the newly appointed Chairman of ICC?

- a) Ray Mali
- b) Greg Barclay
- c) David Morgan

d) Mustafa Kamal

Answer: b)

New Zealand Cricket (NZC) chief Greg Barclay has been newly-elected as International Cricket Council's independent Chairman. He has also been a board member and chairman of Northern Districts Cricket Association. He replaced Imran Khwaja.

7) The Barabar Hill Caves are the oldest surviving rock-cut caves dating from which Empire?

- a) Maratha Empire
- b) Mughal Empire
- c) Maurya Empire
- d) Chola Empire

Answer: c)

The Barabar Hill Caves are the oldest surviving rock-cut caves in India. These rock-cut chambers bear dedicatory inscriptions in the name of "King Piyadasi" for the Barabar group, and "Devanampiya Dasaratha" for the Nagarjuni group, thought to date back to the 3rd century BCE during the Maurya period, and to correspond respectively to Ashoka and his grandson, Dasharatha Maurya.

8) Albert Einstein was awarded the Nobel Prize in Physics in which year?

- a) 1921
- b) 1919
- c) 1927
- d) 1931

Answer: a)

The Nobel Prize in Physics 1921 was awarded to Albert Einstein "for his services to Theoretical Physics, and especially for his discovery of the law of the photoelectric effect."

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9) What was the venue of Khelo India Youth Games 2019?

- a) Pune, Maharashtra
- b) Bhopal, Madhya Pradesh
- c) Guwahati, Assam
- d) Panipat, Haryana

Answer: a)

Khelo India Youth Games is held annually in January or February. It is the national level multidisciplinary grassroot games in India held for two categories, namely under-17 years school students and under-21 college students. It was held in Pune, Maharashtra in 2019.

10) How many states and union territory touch the boundary of Uttar Pradesh?

- a) 8+1
- b) 9+3
- c) 5+2
- d) 7+5

Answer: a)

Uttar Pradesh is a state in northern India. The state is bordered by Rajasthan to the west, Haryana, Himachal Pradesh and Delhi to the northwest, Uttarakhand and an international border with Nepal to the north, Bihar to the east, Madhya Pradesh to the south, and touches the states of Jharkhand and Chhattisgarh to the southeast.

11) Cheriya paintings, which got GI Tag belongs to which state?

- a) Haryana
- b) Telangana
- c) Madhya Pradesh
- d) Tamil Nadu

Answer: b)

Cheriyal Scroll Painting is a stylized version of Nakashi art, rich in the local motifs peculiar to the Telangana. They are at present made only in Hyderabad, Telangana, India. The scrolls are painted in a narrative format, much like a film roll or a comic strip, depicting stories from Indian mythology, and intimately tied to the shorter stories from the Puranas and Epics.

12) Rafael Nadal, professional tennis player plays for which country?

- a) Switzerland
- b) Spain
- c) Russia
- d) France

Answer: b)

Rafael Nadal is a Spanish professional tennis player. He is ranked No. 2 in the world by the Association of Tennis Professionals (ATP). He is one of the most successful tennis players.

13) World Press Freedom Day is observed on _____.

- a) 5th August
- b) 9th March
- c) 3rd May
- d) 6th June

Answer: c)

The United Nations General Assembly declared May 3 to be World Press Freedom Day. It is observed to raise awareness of the importance of freedom of the press and remind governments of their duty to respect and uphold the right to freedom of expression.

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14) Who was the first Health Minister of Independent India?

- a) Sushila Nayar
- b) Rajkumari Amrit Kaur
- c) Uma Shankar Dikshit
- d) Sripati Chandrasekhar

Answer: b)

Rajkumari Amrit Kaur was an Indian activist and politician. She was appointed the first Health Minister of India in 1947 and remained in office until 1957. She was also a member of the Indian Constituent Assembly, the body that framed the Constitution of India.

15) Who invented the Modern binary system?

- a) Alberto Ciaramella
- b) Gottfried Leibniz
- c) Patrick Cousot
- d) Tom DeMarco

Answer: b)

A binary code represents text, computer processor instructions, or any other data using a two-symbol system. The two-symbol system used is often "0" and "1" from the binary number system. It was invented by Gottfried Wilhelm Leibniz around 1679.

16) Kolleru Lake, one of the largest freshwater lakes is located in which state?

- a) Kerala
- b) Karnataka
- c) Assam
- d) Andhra Pradesh

Answer: d)

Kolleru Lake is one of the largest freshwater lakes in India located in state of Andhra Pradesh and forms the largest

shallow freshwater lake in Asia. It is located between Krishna and Godavari deltas.

17) The ASEAN Headquarters is located in_____.

- a) Vienna, Austria
- b) Brussels, Belgium
- c) London, England
- d) Jakarta, Indonesia

Answer: d)

The Association of Southeast Asian Nations (ASEAN) is a regional intergovernmental organization comprising ten countries in Southeast Asia, which promotes intergovernmental cooperation. It is headquartered in Jakarta, Indonesia.

18) What is the SI unit of Pressure?

- a) Joule
- b) Volt
- c) Ampere
- d) Pascal

Answer: d)

The pascal is the SI derived unit of pressure used to quantify internal pressure, stress, Young's modulus, and ultimate tensile strength. It is named after Blaise Pascal.

19) Who is the current President of Ukraine?

- a) Petro Poroshenko
- b) Olena Zelenska
- c) Volodymyr Zelensky
- d) Alexander Lukashenko

Answer: c)

Volodymyr Zelensky is the 6th and current president of Ukraine. Before entering politics, he was a comedian, actor, screenwriter and director.

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20) How many teams had participated in IPL 2020?

- a) Eight
- b) Eleven
- c) Nine
- d) Twenty

Answer: a)

The 2020 Indian Premier League was the thirteenth season of the IPL, a professional Twenty20 cricket (T20) league established by the Board of Control for Cricket in India (BCCI) in 2007. A total of eight teams participated in IPL 2020.

21) Defence Research and Development Organisation (DRDO) was established in which year?

- a) 1958
- b) 1955
- c) 1951
- d) 1962

Answer: a)

The Defence Research and Development Organisation is an agency under Ministry of Defence of the Government of India, charged with the military's research and development, headquartered in Delhi, India. It was founded in 1958.

22) Mollem National Park is located in which Indian state?

- a) Maharashtra
- b) Telangana
- c) Goa
- d) Haryana

Answer: c)

Mollem National Park which is a part of the famous Bhagwan Mahavir Wildlife Sanctuary is the biggest

national park in Goa. It was declared as a national park in 1978.

23) Joint Session of Parliament comes under which article?

- a) Article 108
- b) Article 110
- c) Article 116
- d) Article 120

Answer: a)

The joint sitting of the Parliament is called by the President as per Article 108 and is presided over by the Speaker or, in their absence, by the Deputy Speaker of the Lok Sabha and in their absence, the Deputy-Chairperson of the Rajya Sabha. The Chairperson doesn't preside over the joint session at any means/cost.

24) Which country has the longest handwritten Constitution?

- a) Australia
- b) Germany
- c) Canada
- d) India

Answer: d)

Indian constitution is the longest written constitution in the world which originally had 395 articles, divided into 22 parts and 8 schedules. At present, our constitution contains 448 articles, with 12 schedules.

25) Which of the following ruler of the Pala Empire patronised the great universities of Nalanda and Vikramashila?

- a) Mahipala
- b) Rampala
- c) Dharpala

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d) Narayanpala

Answer: c)

Dharmapala was the second ruler of the Pala Empire of Bengal region in the Indian Subcontinent. He was the son and successor of Gopala, the founder of the Pala Dynasty. Dharmapala was a great patron of Buddhism. He revived the Nalanda University and founded the Vikramshila University which later evolved into a great learning centre of Buddhism.

26) When was the Constitution of India adopted by the Constituent Assembly?

- a) 26th November, 1949
- b) 26th April, 1941
- c) 26th June, 1945
- d) 26th March, 1951

Answer: a)

The Constitution of India was adopted by the Constituent Assembly on 26th November, 1949 and came into force on 26th January, 1950. It provides for a Parliamentary form of government which is federal in structure with certain unitary features.

27) R.K. Laxman is related to which field?

- a) Journalist
- b) Film-Director
- c) Cartoonist
- d) Music Composer

Answer: c)

R. K. Laxman, was an Indian cartoonist, illustrator and humorist. He is best known for his creation 'The Common Man'. He started his career as a part-time cartoonist, working mostly for local newspapers and magazines.

28) Majuli island is located on which river?

- a) Brahmaputra
- b) Godavari
- c) Narmada
- d) Kaveri

Answer: a)

Majuli is a river island in the Brahmaputra River, Assam and in 2016 it became the first island to be made a district in India. It was formed due to course changes by the river Brahmaputra and its tributaries, mainly the Lohit.

29) Who among the following was the founder of the Indian National Congress?

- a) Gopal Krishna Gokhale
- b) Rash Behari Bose
- c) Allan Octavian Hume
- d) Womesh Chandra Banerjee

Answer: c)

Indian National Congress was founded in 1885 under the guidance of British civil servant Allan Octavian Hume. A.O. Hume established the Indian National Congress to obtain greater share of Indians in the British government.

30) Who was the first Muslim President of The Indian National Congress?

- a) Sir Syed Ahmed Khan
- b) Abul Kalam Azad
- c) Badruddin Tyabji
- d) Muhammed Ali Jinnah

Answer: c)

Badruddin Tyabji was the first Muslim president of Indian National Congress elected in its 1887 Madras session.

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31) The Wild Life Protection Act, was enacted in which year?

- a) 1977
- b) 1972
- c) 1975
- d) 1971

Answer: b)

The Wild Life Protection Act, 1972 is an Act of the Parliament of India enacted for protection of plants and animal species. It has six schedules which give varying degrees of protection. It extends to the whole of India.

32) _____ is the branch of medicine that incorporates the study of liver.

- a) Bryology
- b) Cytology
- c) Agrology
- d) Hepatology

Answer: d)

Hepatology is the branch of medicine that incorporates the study of liver, gallbladder and pancreas as well as management of their disorders.

33) Who among the following is the King of Thailand?

- a) Maha Vajiralongkorn
- b) Bhumibol Adulyadej
- c) Vajiravudh
- d) Ananda Mahidol

Answer: a)

Maha Vajiralongkorn is King of Thailand. He is the only son of King Bhumibol Adulyadej and Queen Sirikit. He accepted the throne on 1 December 2016.

34) Which country is not a permanent member of the UN security council?

- a) China
- b) France
- c) Russia
- d) Kenya

Answer: d)

The UN Security Council has five permanent members – China, France, Russia, the United Kingdom, and the United States. Kenya is the non-permanent member of the powerful UN Security Council.

35) Who is the Chairman of the 15th Finance Commission?

- a) C. Rangarajan
- b) Vijay L. Kelkar
- c) Y. V Reddy
- d) N. K. Singh

Answer: d)

The Fifteenth Finance Commission is an Indian Finance Commission constituted in November 2017 and is to give recommendations for devolution of taxes and other fiscal matters. The commission's chairman is Nand Kishore Singh.

36) Which is the longest bone of the Human body?

- a) Humerus
- b) Radius
- c) Femur
- d) Ulna

Answer: c)

The femur is the longest bone in the human body and the shortest bone is the stapes found in the middle ear.

RRB NTPC Memory Based Model Paper Based on Feb 09 Exam

37) World Bank was established in which year?

- a) 1944
- b) 1949
- c) 1951
- d) 1959

Answer: a)

The World Bank is an international financial institution that provides loans and grants to the governments of low- and middle-income countries for the purpose of pursuing capital projects. The World Bank was created at the 1944 Bretton Woods Conference.

38) Who is the National Animal of Nepal?

- a) Snow leopard
- b) Eagle
- c) Red kangaroo
- d) Cow

Answer: d)

The National symbol of Nepal, Cow was declared as the national animal of Nepal in 2015.

39) All India Muslim league was founded in which year?

- a) 1906

b) 1910

- c) 1902
- d) 1905

Answer: A

The All-India Muslim League was a political party established in 1906 in British India. Its strong advocacy for the establishment of a separate Muslim-majority nation-state, Pakistan, successfully led to the partition of India in 1947 by the British Empire.

40) What is the full form of ALU?

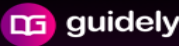
- a) arithmetic logic unit
- b) application logic unit
- c) array logical unit
- d) arithmetical logical unit

Answer: a)

ALU stand for Arithmetic Logic Unit. It performs all the arithmetic computations, like addition, division and the comparison operations.



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