

Home Assignment

for SSC & Railways Aspirants

1. Which of the following state has topped the ranking in Breastfeeding and Infant and Young Child Feeding Practices in the country?

- A. Uttar Pradesh
- B. Bihar
- C. Manipur
- D. Meghalaya
- E. Sikkim

Ans. C

Sol.

- Manipur has topped the ranking in Breastfeeding and Infant and Young Child Feeding Practices in the country.
- Uttar Pradesh, Rajasthan and Bihar are at the bottom positions in the report card.
- National capital Delhi is also among the worst-performing States.
- The Breastfeeding report card has been developed by devising a composite score based on three indicators namely early initiation of breastfeeding, exclusive breastfeeding for six months and complimentary feeding at 6-8 months of child's age.

2. Which of the following Industry Body launched Digi "Vyapari-Safal Vyapari" initiative to accelerate acceptance of digital payments among merchants across the country?

- A. FICCI
- B. ASSOCHAM
- C. CII
- D. FIEO
- E. CAIT

Ans. E

Sol.

- Traders body Confederation of All India Traders (CAIT) has launched an initiative -- Digi Vyapari-Safal Vyapari
- This is to accelerate acceptance of digital payments among merchants across the country.
- For this the CAIT has partnered with HDFC Bank, Mastercard, Common Service Centres (CSCs) of Ministry of Electronics and Information Technology (Meity) and Global Linkers.

3. Who among the following has topped the list of the highest-paid female athletes 2019 published by Forbes?

- A. Serena Williams
- B. Venus Williams
- C. Angelique Kerber
- D. Simona Halep
- E. P.V. Sindhu

Ans. A

Sol.

- Serena Williams (37-years) topped the list of the highest-paid female athletes 2019 published by Forbes.
- She has topped the annual list for a 4th the consecutive year with estimated total earnings of USD 29.2 million.
- Naomi Osaka (Japan) was 2nd on the list with earnings of USD 24.3 million.
- Indian badminton player P.V. Sindhu came in tied for 13th (USD 5.5 million) rounding out the top 15 of Forbes list of best-paid female athletes.

4. Who of the following has been appointed as the CMD of the State-owned Power Grid Corporation of India?

- A. Kandikuppa Sreekant
- B. Padmaja Chundurur
- C. Sanjeev Nautiyal
- D. Pushan Mahapatra
- E. None of these

Ans. A

Sol.

- Kandikuppa Sreekant has been appointed as chairman and managing director of the State-owned Power Grid Corporation of India.
- Previously he was working as Director (Finance) in the Power Grid Corporation.
- According Ministry of Power order, the tenure of Kandikuppa Sreekant will be till December 31, 2023.

5. 77th anniversary of the August Kranti Din, was observed all across the country on_____.

- A. 1st August
- B. 4th August
- C. 5th August
- D. 8th August
- E. None of these

Ans. D

Sol.

- The 77th anniversary of the August Kranti Din, was observed all across the country on 8th August, 2019 which is considered as one of the important

milestones in the history of freedom struggle of our country.

- On this date in 1942, Mahatma Gandhi gave a clarion call to end the British rule and launched the Quit India Movement at the session of the All-India Congress Committee in Mumbai.
- Gandhiji gave the call to Do or Die in his Quit India speech delivered at the Gowalia Tank Maidan in Mumbai.

6. Indian Bank has signed a Bancassurance Pact with which of the following Insurance Company?

- A. SBI Life Insurance
- B. Bajaj Allianz General Insurance
- C. ICICI Pru
- D. United India Insurance Company
- E. Life Insurance Corporation of India

Ans. A

Sol.

- SBI Life Insurance and Indian Bank have entered into a Bancassurance pact to offer holistic financial planning solutions to the banks customers.
- SBI Life will work with Indian Bank to ensure sales training, product support and smooth operational processes in order to offer life insurance policies to its customers.
- Indian Bank's customers will have access to an array of life insurance products from SBI Life catering to varied life stage needs of the customer.

7. For the welfare of the girl child, 'Vhali Dikri Yojna' has been launched by which of the following states?

- A. Maharashtra
- B. Goa
- C. Gujarat
- D. Rajasthan
- E. Haryana

Ans. C

Sol.

Gujarat government has launched the 'Vhali Dikri Yojna' for the welfare of the girl child from Rajkot.

It is a statewide cash incentive scheme for every girl child born in Gujarat, with a view to raising the female birth rate at par with male to achieve gender equality.

The State Government will pay Rs. 4,000 to every girl child at the time of admission

to Standard 4th, Rs. 6,000 at the time of taking admission to Standard IX, Rs. 1 lakh at the time of taking admission for higher education at the age of 18 and another Rs. 1 lakh at the time of marriage.

8. The traffic police of which of the following cities has launched the 3-D Smart Traffic Signal system based on Artificial Intelligence?

- A. Chandigarh
- B. Delhi
- C. Amritsar
- D. Mohali
- E. Jaipur

Ans. D

Sol.

* Mohali traffic police has launched the 3-D Smart Traffic Signal system based on Artificial Intelligence.

* This 3-D technique is first of its kind in the country.

* The new system called 'Intelights' will have sensors which would automatically switch on the green and red signals depending upon the number of vehicles coming from that particular side.

* It will regulate with a smart bird's eye view wireless sensor system.

9. In which of the following states world's first ultra-fast hyperloop project will come?

- A. Haryana
- B. Gujarat
- C. Maharashtra
- D. Karnataka
- E. Goa

Ans. C

Sol.

Maharashtra has granted infrastructure project status for a USD 10 billion (about Rs. 70,0000 crores) plan to establish the world's first ultra-fast hyperloop project. The projects aim to link Mumbai with the neighbouring city of Pune.

The Hyperloop is a high-speed transportation system in which specialized pods are accelerated through a low-pressure tube to achieve speeds near the speed of sound.

The system is intended to provide a more cost-effective and faster mode of travel

between cities separated by distances less than approximately nine hundred miles.

10. A woman can do all the household chores in 6 hours whereas her husband would take 10 hours to do the same job. A children can do it in 8 hours, then how long will it take the entire family to finish the chores together?

- A. 2 hours
- B. 2.5 hours
- C. 3 hours
- D. 3.5 hours

Ans. B

Sol. Let the amount of work to be done be W
 Woman's speed = W/6
 Husband's speed = W/10
 Speed of children = W/8
 Combined speed = $(20W + 12W + 15W)/120 = 47W/120$
 Time required therefore = $120/47$ hours = 2.55 hours

11. The numerical value of $\frac{1}{1+\cot^2\theta} + \frac{3}{1+\tan^2\theta} + 2\sin^2\theta$ will be

- A. 2
- B. 5
- C. 6
- D. 3

Ans. D

$$\begin{aligned} & \frac{1}{1+\cot^2\theta} + \frac{3}{1+\tan^2\theta} + 2\sin^2\theta \\ &= \frac{1}{\operatorname{cosec}^2\theta} + \frac{3}{\sec^2\theta} + 2\sin^2\theta \\ &= \sin^2\theta + 3\cos^2\theta + 2\sin^2\theta \\ \text{Sol.} &= 3(\sin^2\theta + \cos^2\theta) = 3 \times 1 = 3 \end{aligned}$$

12. In a school, the respective ratio of number of boys and number of girls is 7:5. The average age of boys is 20% more than that of girls and the average age of whole class is 13.4 years. What is the average age of girls?

- A. 12 years
- B. 13 years
- C. 15 years
- D. 14 years

Ans. A

Sol.

Let the number of boys and girls be $7x$ and $5x$ respectively. Average age of boys and girls be $1.2y$ and y respectively.

$$\frac{7x \times 1.2y + 5x \times y}{7x + 5x} = 13.4$$

$$\frac{13.4xy}{12x} = 13.4$$

$$\therefore y = 12 \text{ years}$$

13. If 10% loss is made on selling price, then the rate of loss on the cost price will be

- A. $11\frac{1}{9}\%$
- B. $9\frac{1}{11}\%$
- C. 10%
- D. 11%

Ans. B

Sol. 10% loss is made on selling price.
 loss = 10% of SP
 let SP = 100
 then, Loss = 10% of 100 = 10
 CP = SP + loss = 100 + 10 = 110
 Loss % on CP = $(10/110) \times 100 =$

$$9\frac{1}{11}\%$$

14. What is the ratio of the curved surface area and volume of a cylinder? (If the radius of the cylinder is 'r')

- A. $\frac{2}{r}$
- B. $\frac{r}{2}$
- C. 2r
- D. 4r

Ans. A

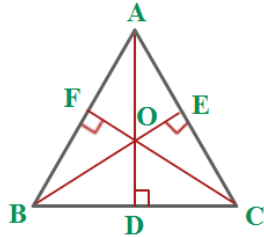
$$\text{Sol. } \frac{2\pi rh}{\pi r^2 h} = \frac{2}{r}$$

15. Let O be the orthocentre of the triangle ABC. If $\angle BOC = 150^\circ$, Then $\angle BAC$ is

- A. 30°
- B. 60°
- C. 90°
- D. 120°

Ans. A

Sol. The intersection of three lines which passes through the three vertices of a triangle and perpendicular to the opposite three sides is called orthocentre.



From the property of orthocentric triangle we know that $\angle BOC + \angle BAC = 180$
 Here we know the value of $\angle BOC$ that is 150
 Hence, $150 + \angle BAC = 180$
 $\angle BAC = 30$

16. In what time will the sum of 1000 Rs becomes 1728 Rs at 20% per annum compounded annually?

- A. 3 years
- B. 4 years
- C. 3.5 years
- D. 2 years

Ans. A

Sol. **Short Trick:**
 $20\% = \frac{20}{100} = \frac{2}{10}$
 there will be interest of 2rs in 10 rs it makes
 10 \rightarrow 12 in one year
 100 \rightarrow 144 in two years
 1000 \rightarrow 1728 in three years
 so the answer is 3 years.

Basic Solution:
 Let the required time be n year. Then,

$$Amount = P \left(1 + \frac{R}{100} \right)^n$$

$$1728 = 1000 \left(1 + \frac{20}{100} \right)^n$$

$$\frac{1728}{1000} = \left(\frac{12}{10} \right)^n$$

$$\left(\frac{12}{10} \right)^n = \left(\frac{12}{10} \right)^3$$

On comparing
 $\therefore n = 3$ years

17. Two friends A and B took loans from the bank at 5% and 7.5% per annum simple interest respectively. The amount payable for A after 5 years is $\frac{2}{5}$ times to that for B in 8 years. If the sum of loans taken by A and B is Rs.56700 then find the loan taken by A.

- A. Rs.19200
- B. Rs.37500
- C. Rs.27500
- D. Rs.21200

Ans. A

Sol. Let A takes Rs. 'a' and B takes Rs. 'b'
 $\Rightarrow a + b = \text{Rs.} 56700$
 Rate of interest for A = 5% p.a.; Time = 5 years
 Rate of interest for B = 7.5% p.a.; Time = 8 years
 \Rightarrow Amount for A = $a + \frac{a \times 5 \times 5}{100} = \frac{5a}{4}$
 \Rightarrow Amount for B = $b + \frac{b \times 8 \times 7.5}{100} = \frac{8b}{5}$
 Acc. To ques,
 $\Rightarrow \frac{5a}{4} = \frac{(2/5) \times 8b}{5}$
 $\Rightarrow \frac{a}{b} = \frac{64}{125}$
 $\Rightarrow a : b = 64 : 125$
 $\therefore a + b = 56700$
 $\Rightarrow \therefore a = 64 \times \frac{56700}{(64+125)}$
 $\Rightarrow a = \text{Rs.} 19200$

18. |||Common|||

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer out of the four alternatives for the given blanks.

The "Global Nutrition Report 2016" once again (Q_18) India's slow overall progress (Q_19) addressing chronic malnutrition, manifest in stunting (low weight for age), wasting (low weight for height), micronutrient (Q_20) and overweight. Our track (Q_21) introducing the proportion of undernourished children over the past decade has been modest at best, and (Q_22) what other countries

with comparable socio-economic indicators have achieved.

|||End|||

Find out the appropriate word in each case. A. demonstrates

B. demonstrated

C. demonstrated that

D. had demonstrated

Ans. B

Sol.

The sentence talks about the findings of a report which was published in 2016. Therefore, the tense of the sentence is in past tense and to describe the general events, we use simple past. Thus, option B is the correct word.

19. Find out the appropriate word in each case.

A. of

B. for

C. in

D. into

Ans. C

Sol. In is a preposition used for expressing a period of time during which an event happens or a situation remains the case. Here event is of chronic malnutrition hence, option C is the correct option.

20. Find out the appropriate word in each case.

A. scarcities

B. lack

C. absence

D. deficiencies

Ans. D

Sol. Deficiencies mean a lack or shortage. Chronic malnutrition gives us the hint for option D hence, option D is the correct option.

21. Find out the appropriate word in each case.

A. progress

B. record

C. report

D. result

Ans. B

Sol. Record is a thing constituting a piece of evidence about the past, especially an account kept in writing or some other permanent form. For comparison of data

we check our records hence, option B is the correct option.

22. Find out the appropriate word in each case.

A. leads

B. fails

C. lags

D. falters

Ans. C

Sol. Lags means to fail to keep up with another or others in movement or development. Hence, option C is the correct option.

23. Select the related word/letters/numbers from the given alternatives:

BIRD : AEROPLANE :: FISH : ?

A. FISHERMAN

B. SOFA

C. BOAT

D. GLASSES

Ans. C

Sol. Bird and aero plane both fly in the air and hence we need to choose the option which relates to fish i.e. in water. Out of all present here, we only have boat which can float in water. Hence C

24. A plane flies 100 km West, then it turns South and flies 150 km, then it turns West and flies 300 km, then it turns to its right and flies 150 km. Where is it now with reference to its starting position?

A. 400 km East

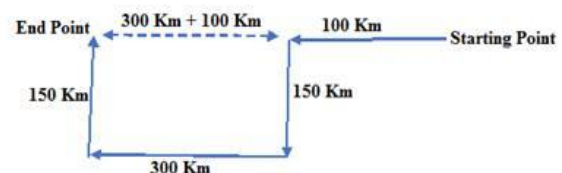
B. 200 km West

C. 400 km West

D. 200 km East

Ans. C

Sol.



Hence, the correct option is C.

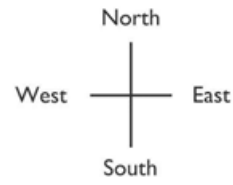
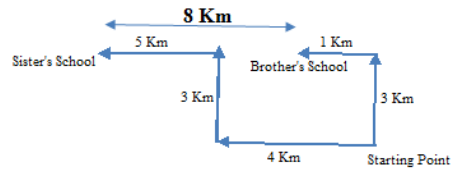
25. A brother and sister daily leave home together to go to their respective schools. The brother goes 3 km North, then turns

left and goes 1 km to reach his school. The sister goes 4 km West, then 3 km North, then turns left and goes 5 km to reach her school. Where is the brother's school with respect to the sister's school?

- A. 10 km East
- B. 8 km West
- C. 10 km West
- D. 8 km East

Ans. D

Sol.



Hence, the correct option is **D**.

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