

## Solutions

1. Ans. D.

- **National Livelihoods Mission (NRLM)** was launched by the **Ministry of Rural Development** (MoRD), Government of India in June 2011.
- The Mission aims at creating efficient and effective institutional platforms of the rural poor enabling them to increase household income through sustainable livelihood enhancements and improved access to financial services.
- **National Rural Livelihoods Mission (NRLM)** also known as Aajeevika.

2. Ans. B.

**Amitav Ghosh** has been announced as **2018's Jnanpith Award** winner for "outstanding contribution towards literature".

- He was described as a "path-breaking novelist" by **Bharatiya Jnanpith**.
- The decision was taken in a meeting of Jnanpith **Selection Board** chaired by eminent **novelist** and scholar **Pratibha Ray**.
- Amitav Ghosh writes both **fiction** and **non-fiction**.

3. Ans. C.

\* According to The International Monetary Fund (IMF) report, India's economy projected to grow at 7.3% in 2019 and 7.5% in 2020.

\* In 2018, India's growth rate was 7.1% as against China's 6.6 per cent. All the estimates are 0.2 percentage points less than its previous assessment in January.

Note:

\* The International Monetary Fund (IMF) is an international organization headquartered in Washington, D.C., consisting of "189 countries working to foster global monetary cooperation.

4. Ans. A.

**TRIM stands for - Trade-Related Investment Measures**

- The agreement on Trade-related investment measures is a rule that applies to the domestic regulations a country

applies to foreign investors, often as part of industrial policy.

- The agreement, concluded in 1994, was negotiated under the WTO's predecessor, the general agreement on tariff and trade, and came in to force in 1995.
- The agreement was agreed upon by all members of WTO.

5. Ans. C.

\* The Guwahati Railway Station (in Assam) has become the first ever railway station in the Indian Railways to get an ISO certification (ISO-14001) from the National Green Tribunal (NGT) for "providing passenger amenities in a clean and green environment."

\* Guwahati Railway Station is ISO-14001, which is for Environment Management System as per international norms which were upgraded in 2015.

\* In April 2017, Guwahati railway station became the first railway station to run entirely on solar power.

6. Ans. B.

The government on 29<sup>th</sup> Feb 2019 has approved the launch of the "**Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM)**" with a central aid of ₹34,422 crore to provide financial and water security to farmers through harnessing solar energy capacities of 25.75 GW by 2022.

**About KUSUM Scheme**

(i) Installation of grid-connected solar power plants each of Capacity up to 2 MW in the rural areas.

(ii) Installation of standalone off-grid solar water pumps to fulfil irrigation needs of farmers not connected to the grid.

(iii) Solarisation of existing grid-connected agriculture pumps to make farmers independent of grid supply and also enable them to sell surplus solar power generated to DISCOM and get an extra income.

7. Ans. D.

The theme of 106<sup>th</sup> edition Indian Science Congress-2019 is '**Future India: Science and Technology**'.

- Prime Minister **Narendra Modi** inaugurated the Indian Science Congress- 2019 (106th edition) in Jalandhar, Punjab.
- Indian Science Congress Association (ISCA) is a premier scientific organisation of India with headquarters at Kolkata, West Bengal.
- It has a membership of more than 30,000 scientists.

Note:

- The 105th Indian Science Congress-2018 was held in Imphal, Manipur University.
- Theme - Reaching the unreached through science and technology.

8. Ans. B.

The Union Government has recently constituted **8-member committee** to prepare a blueprint for doubling farmers' **income by 2022**. The committee will be headed by **Ashok Dalwai**, who is the additional secretary at the Union Agriculture Ministry.

**Note:-** The committee will identify potential areas of agriculture where more investment should happen and suggest ways to reduce the risk of farming by diversifying to horticulture and allied activities like livestock and fisheries to boost income.

9. Ans. D.

World Bank to provide **250 Million dollars** for the National Rural Economic Transformation Project (NRETP) to boost Rural Incomes across 13 States in India.

\* An agreement in this regard was signed between the World Bank and the Government of India.

\* World Bank said in a statement that the loan will help women in rural households develop viable enterprises for farm and non-farm products.

\*A key focus of the project will be to promote the women-owned and women-led farm and non-farm enterprises across value chains; to enable them to build businesses that help them access finance, markets and networks; and to generate employment.

10. Ans. C.

Hirakud Dam is built across the **Mahanadi River** in Sambalpur Odisha. Behind the dam extends a lake, Hirakud Reservoir, 55 km (34 mi) long. It is one of the first major multipurpose river valley projects started after India's independence.

11. Ans. C.

JALLIKATTU is an event held in Tamil Nadu as a part of Pongal celebrations on Mattu Pongal day. Bulls are bred specifically by people of the village for the event and attended mainly by many villages' temple bulls (koil kaalai). A temple bull is like the head of all cattle in a village; special rituals will be performed for this temple bull during important days.

12. Ans. E.

The 2nd edition of 'Khelo India Youth Games' was held in Pune, Maharashtra. Union Minister for sports Col. Rajyavardhan Singh Rathore inaugurated the event.

Note:

- In the second edition of Khelo India Youth Games (2nd edition), **Maharashtra** topped with 228 medals (85 gold, 62 silver and 81 bronze).
- Haryana was second with total 178 medals (62 gold, 56 silver and 60 bronze) while Delhi was third with total 136 medals (48 gold, 37 silver and 51 bronze) for a total of 136 medals.

13. Ans. C.

TRIPS stands for - Trade-related aspect of Intellectual Property rights.

The TRIPS Agreement, which came into effect on **1 January 1995**, is to date the most comprehensive multilateral agreement on intellectual property.

It was the first such agreement to treat so-called intellectual property (IP) rights, most notably copyright and patents, as a global trade issue, on the theory that one country's failure to protect another's IP creates a barrier to trade between those countries.

14. Ans. B.

- The indigenously developed **NIRBHAY** missile is a long-range, subsonic, cruise missile with a sharper 'terrain hugging capability' was successfully tested at Chandipur, off the Odisha coast.
- According to the Defence Research Development Organisation (DRDO) in the controlled flight, the Nirbhay missile was manoeuvred at low altitudes of as less as 5 metres to a range of 2.5 km,
- It has a range of **700 km to 1,000 km**.

15. Ans. D.

South Central Zone Cultural Centre (SCZCC) of Ministry of Culture, Government of India has organized a Madhya Dakshini Festival 2019 in four venues of Guwahati, Assam.

Around 100 folk artists from Central India, states from Maharashtra, Madhya Pradesh, Chhattisgarh and Andhra Pradesh has performed vibrant and colourful folk dances showing the rich cultural heritage of India.

The Cultural Festival was organized at Shilpgram of NEZCC at Panjabari, Guwahati.

16. Ans. D.

- Kuldeep Nayar conferred with the Padma Bhushan award posthumously for 2019.
- Govt. of India announced the Padma Bhushan award to late veteran journalist and an outspoken supporter of press freedom Kuldeep Nayar.
- Kuldeep Nayar, was a well-known writer known for his stand on secularism, human rights and liberty, died on August 23, 2018, at his Delhi residence after a prolonged spell of age-related ailments. He was 95.

Note:

- This year 112 recipients have been selected for the prestigious awards. This includes 4 Padma Vibhushan, 14 Padma Bhushan and 94 Padma Shri awards.
- The Padma Vibhushan is awarded for exceptional and distinguished service; Padma Bhushan for distinguished service of a high order and Padma Shri for distinguished service in any field.
- Late actor Kader Khan, Sikh riot activist HS Phoolka, cricketer Gautam Gambhir, dancer and choreographer Prabhu Deva, and former diplomat S Jaishankar are among 94 people named for Padma Shree.
- President of India conferred the awards at ceremonial functions which are held at Rashtrapati Bhawan usually around March/April every year.

17. Ans. B.

The state of Kerala has declared **Jackfruit** as the official fruit of the state.

The aim is to promote the '**Kerala jackfruit**' as a brand in markets across the country and abroad, showcasing its organic and nutritious

qualities.

A total revenue of Rs 15,000 crore is expected through the sale of jackfruit and its related products through branding of the fruit.

18. Ans. B.

Diu has become the first Union territory of India to run completely on solar power energy. Diu is one of the least populated UTs in India which have a geographical area of only 42 kilometres. The solar power plants have been installed over 50 acres in Diu.

19. Ans. D.

There are two main set of inflation indices for measuring price level changes in India – the Wholesale Price Index (WPI) and the Consumer Price Index (CPI).

The WPI, where prices are quoted from wholesalers, is constructed by Office of Economic Affairs, Ministry of Commerce and Industries.

Two Ministries – Ministry of Statistics and Programme Implementation (MOSPI) and Ministry of Labour and Employment (MOLE) are engaged in the construction of different CPIs for different groups/sectors. CPI inflation is also called as retail inflation as the prices are quoted from retailers. Following are the various CPIs.

(a) CPI for all India or CPI combined.

(b) CPI for Agricultural Labourers (AL)

(c) CPI for Rural Labourers (RL); and

(d) CPI for Industrial Workers (IW)

20. Ans. C.

International Law expert 'Neeru Chadha' has been elected as the Judge of the United Nations' International Tribunal for Law of the Sea (ITLOS).

Note:

The Hamburg-based ITLOS, established in 1996, is one of dispute settlement mechanisms under the UN Convention on the Law of the Sea (UNCLOS) that entered into force in 1994.

21. Ans. D.

The population of village C in 2015

$$= 18000 \times \frac{10}{100} = 1800$$



The population of village C in 2017 = 1800 In year 2015,

$$\text{Illiterates Literates} = 18000 \times \frac{40}{100} \times \frac{16}{100} = 1152$$

$$\text{In year 2017, Literates} = 648 + x \text{ Illiterates} = 1152 - x$$

According to question,

$$648 + x = (1152 - x) \times \frac{170}{100}$$

$$22. \text{ Ans. D. } 6480 + 10x = 19584 - 17x \\ \Rightarrow 27x = 13104 \Rightarrow x \approx 485$$

Population of village D

$$\text{Illiterates Literates} = 18000 \times \frac{16}{100} = 2880$$

$$\text{Population of village E} = 18000 \times \frac{40}{100} \times \frac{20}{100} = 1440$$

$$\text{Illiterates} = 2880 - 1440 = 1440$$

$$\text{Literates} = 1800 \times \frac{30}{100} = 5400$$

$$\text{Difference of illiterates} = 1728 - 1440 = 288$$

$$\text{Difference of literates} = 5400 - 5172 = 228$$

$$\text{Required percentage} = \frac{288}{2232} \times 100 \approx 13\%$$

23. Ans. C.

In village D,

Illiterates

$$18000 \times \frac{40}{100} \times \frac{20}{100} = 1440$$

According to question,

$$\text{Females} = 1440 \times \frac{3}{8} = 540$$

$$24. \text{ Ans. } 100 - 1.25x = \frac{5}{8}$$

Illiterates in village D, E and G

$$\Rightarrow 1800 - 2.5x = 2700 - 5x$$

$$\text{Illiterates in village F and G} = 17.5x = 900 \Rightarrow x = 360$$

$$= 1910 \times 3 = 5730$$

$$= 5730 - 1440 = 4290$$

Let the populations of F and G be  $4x$  and  $5x$ .

According to question,

$$4x \times \frac{40}{100} + 5x \times \frac{30}{100} = 4290$$

$$\Rightarrow 160x + 150x = 429000$$

$$\Rightarrow 310x = 429000$$

$$\Rightarrow x = 1384$$

Total population of village F and G =  $9x$

$$= 9 \times 1384 = 12456$$

25. Ans. D. Population

$$\text{of village A} = 18000 \times \frac{20}{100} = 3600$$

$$\text{Males} = 3600 \times \frac{17}{30} = 2040$$

$$\text{illiterate males} = 2040 - 1000 = 1040$$

26. Ans. E.

$$\frac{\pi r^2 h}{2\pi r h} = \frac{1232}{704}$$

$$\Rightarrow r = 3.5 \text{ m So,}$$

$$h = \frac{704}{2\pi \times 3.5} = 32 \text{ m}$$

$$\therefore \text{Total S.A.} = 2\pi r h + 2\pi r^2 = 2\pi r(h + r) = 2$$

$$\times \frac{22}{7} \times 3.5(3.5 + 32) = 781 \text{ m}^2$$

27. Ans. C.

Statement I:

Amount lent out in scheme A =

$$\frac{5}{5+x} \times 2400 = \frac{12000}{5+x}$$

Amount lent out in scheme B =

$$\frac{x}{5+x} \times 2400 = \frac{2400x}{5+x}$$

According to the question,

$$\frac{12000}{5+x} \times 8 \times 2 - \frac{2400x}{5+x} \times 2 \times 3(x+1) = 24 \times 100$$

$$120 \times 16 - 144x(x+1) = 24(5+x)$$

$$80 - 6x^2 - 6x = 5 + x$$

$$6x^2 + 7x - 75 = 0$$

$$6x^2 + 25x - 18x - 75 = 0$$

$$x(6x + 25) - 3(6x + 25) = 0$$

$$(x - 3)(6x + 25) = 0$$

$$x = 3, -\frac{25}{6}$$

$$x = 3$$

Statement II:

Amount lent out in scheme A =

$$\frac{5}{5+3} \times 2400 = 1500$$

Amount lent out in scheme B =  $2400 - 1500 = 900$

According to the question,

$$1500 \times 8 \times 9 = 900 \times 3(x+1) \times (x+7)$$

$$40 = x^2 + 8x + 7$$

$$x^2 + 8x - 33 = 0$$

$$x^2 + 11x - 3x - 33 = 0$$

$$x(x+11) - 3(x+11) = 0$$

$$(x-3)(x+11) = 0$$

$$x = 3, -11$$

So option (c) is the correct answer.

28. Ans. E.

Since, we do not know what part of the tank is initially filled and what part of the tank remains to be filled, we cannot answer the question even by combining both the statements together. So, the data in both statements I and II together are not sufficient to answer the question.

So option (e) is the correct answer.

29. Ans. C.

Statement I:

$$\text{Age of Abhishek} = (\text{Akshay} + \text{Prashant}) / 2$$

$$\text{Also, Abhishek} = 2 \times (\text{Abhishek} - 4) - 14$$

$$\text{Abhishek} = 2 \times \text{Abhishek} - 8 - 14 \quad \text{Abhishek} = 2 \times \text{Abhishek} - 22$$

$$\text{Abhishek} = 22$$

$$\text{Therefore, Akshay} + \text{Prashant} = 2 \times 22 = 44 \text{ So,}$$

$$\text{age of Prashant} = \quad \text{years}$$

$$\text{Statement II:} \quad \frac{7}{7+4} \times 44 = 28$$

$$\text{Akshay} = 2 + (\text{Prashant} / 2)$$

$$\text{Also, Prashant} = \text{Akshay} + \text{Abhishek} - 10$$

$$\text{Also, Abhishek} = \text{Prashant} - 6$$

Using all three equations,

$$\text{Prashant} = 2 + (\text{Prashant} / 2) + \text{Prashant} - 6 - 10$$

$$\text{Prashant} / 2 = 14$$

$$\text{Prashant} = 28$$

So option (c) is the correct answer.

30. Ans. D.

Let, A's monthly income = Rs. x

B's monthly income = Rs. y

C's monthly income = Rs. z

I. According to statement, x

$$= y - 2500$$

we do not get the value of x.

II. According to statement,

$$\Rightarrow y : z = 2 : 1$$

$$\Rightarrow y/z = 2$$

$$\Rightarrow y = 2z$$

We do not get the value of x. After

combining I. and II. We get,

$$\Rightarrow x = y - 2500$$

$$\Rightarrow x = 2z - 2500$$

Still we do not get the value of x.

∴ Statement I and II taken together is not sufficient.

31. Ans. E.

$$3x^2 = 3$$

$$x^2 = 1, x = 1, -1$$

$$4y^2 = 4, y = 1, -1$$

So no relationship can be established

32. Ans. E.

Quantity I:

$$5x^2 + 44x + 32$$

$$\Rightarrow 5x^2 + 40x + 4x + 32 = 0$$

$$\Rightarrow 5x(x+8) + 4(x+8) = 0$$

$$\Rightarrow (5x+4)(x+8) = 0$$

$$\Rightarrow x = -4/5, -8$$

$$\Rightarrow x = -0.8, -8$$

Quantity II:

$$9y^2 + 74y + 77$$

$$\Rightarrow 9y^2 + 63y + 11y + 77 = 0$$

$$\Rightarrow 9y(y+7) + 11(y+7) = 0$$

$$\Rightarrow (9y+11)(y+7) = 0$$

$$\Rightarrow y = -11/9, -7$$

$$\Rightarrow y = -1.2, -7,$$

Now, comparing

$$-0.8 > -1.2$$

$$-0.8 > -7$$

$$-8 < -1.2$$

$$-8 < -7$$

Hence, no relation

33. Ans. A.

Quantity I:

$$16x^2 + 28x + 12$$

$$\Rightarrow 16x^2 + 16x + 12x + 12 = 0$$

$$\Rightarrow 4x(4x+4) + 3(4x+4) = 0$$

$$\Rightarrow (4x + 3)(4x + 4) = 0$$

$$\Rightarrow x = -4/4, -3/4$$

$$\Rightarrow x = -1, -0.75$$

Quantity II:

$$6y^2 + 32y + 42$$

$$\Rightarrow 6y^2 + 14y + 18y + 42 = 0$$

$$\Rightarrow 2y(3y + 7) + 6(3y + 7) = 0$$

$$\Rightarrow (2y + 6)(3y + 7) = 0$$

$$\Rightarrow y = -6/2, -7/3$$

$$\Rightarrow y = -3, -2.33$$

Now, comparing

$$-1 > -3$$

$$-1 > -2.33$$

$$-0.75 > -3$$

$$-0.75 > -2.33$$

Hence,  $x > y$

34. Ans. E.

Quantity 1:

$$3x^2 - 54x - (27)^2 = 0$$

$$\Rightarrow 3x^2 - 54x - 729 = 0$$

$$\Rightarrow 3x^2 + 27x - 81x - 729 = 0$$

$$\Rightarrow x(3x + 27) - 27(3x + 27) = 0$$

$$\Rightarrow (x - 27)(3x + 27) = 0$$

$$\Rightarrow x = 27, -9$$

Quantity 2:

$$4x^2 - 450 + 8100 = 0$$

$$\Rightarrow 4x^2 - 90x - 360x + 8100 = 0$$

$$\Rightarrow x(4x - 90) - 90(4x - 90) = 0$$

$$\Rightarrow (x - 90)(4x - 90) = 0$$

$$\Rightarrow x = 90, 45/2$$

Now comparing

$$27 < 90$$

$$-9 < 90$$

$$27 > 22.5$$

$$-9 < 22.5$$

Thus, no relation between quantity 1 and quantity 2

35. Ans. B.

$$520 \div 2 + 8 = 268$$

$$268 \div 2 + 8 = 142$$

$$142 \div 2 + 8 = 79$$

$$79 \div 2 + 8 = 47.5$$

$$47.5 \div 2 + 8 = 31.75$$

Hence, option B is correct.

36. Ans. B.

$$520 \div 2 + 8 = 268$$

$$268 \div 2 + 8 = 142$$

$$142 \div 2 + 8 = 79$$

$$79 \div 2 + 8 = 47.5$$

$$47.5 \div 2 + 8 = 31.75$$

Hence, option B is correct.

37. Ans. A.

$$4 \times 0.25 + 0.50 = 1.5$$

$$1.5 \times 0.50 + 1 = 1.75$$

$$1.75 \times 1 + 1.5 = 3.25$$

$$3.25 \times 2 + 2 = 8.5$$

$$8.5 \times 4 + 1.5 = 35.5$$

Hence, option A is correct.

38. Ans. A.

$$1^2 \times 2 - 2 = 0$$

$$2^2 \times 3 - 2 = 10$$

$$3^2 \times 4 - 2 = 34$$

$$4^2 \times 5 - 2 = 78$$

$$5^2 \times 6 - 2 = 148$$

Hence, option A is correct.

$$39. \text{ Ans. B. } 2 = 250$$

Ratio of efficiency of Shobhit and Rohit = 2: 1

Ratio of efficiency of Rohit and Mohit = 2 : 1

Combined efficiency Ratio of Shobhit , Rohit and Mohit is

$$= 4 : 2 : 1$$

$$\text{Total work unit} = (4 + 2 + 1) 20$$

$$= 140$$

Time taken by Rohit and Shobhit to complete the work = days

$$= \text{days}$$

$$\frac{140}{4+2}$$

$$40. \text{ Ans. B. } \frac{79}{4+2}$$

Let after 2 years amount invested by P, Q and R is '3x', 'x' and '5x' respectively.

$$\text{Ratio of share of P and Q} = [(900 \times 2) + (900 + 3x) + (900 + 3x - 200)] : [(1300 \times 2) + (1300 + x) + (1300 + x - 400)] = 4 : 5$$

$$\Rightarrow 17000 + 30x = 19200 + 8x$$

$$\Rightarrow x = 100$$

Ratio of share of P and R =  $[(900 \times 2) + (900 + 3x) + (900 + 3x - 200)] : [(2000 \times 2) + (2000 + 5x) + (2000 + 5x - 1000)] = 4$   
: a

$$\Rightarrow a = 4 \times 7000 + 10x / 3400 + 6x$$

$$\Rightarrow a = 8$$

Total profit earned from the business

$$= 1200 \times 4 + 5 + 8/4 = \text{Rs. } 5100$$

Hence, option (B) is correct.

41. Ans. A.

Members: A, B, C, D, E, F, G and H

Years: 1978, 1996, 1949, 1993, 1954, 1989, 1972 and 1982

1) A is the oldest member.

2) Two members were born between A and B.

Year	Age	Name
1949	69	A
1954	64	
1972	46	
1978	40	B
1982	36	
1989	29	
1993	25	
1996	22	

3) H is 2 year older than that of twice the age of C.

(This condition is possible only when C is 22 years old. Therefore, H was born in 1972.)

Year	Age	Name
1949	69	A
1954	64	
1972	46	H
1978	40	B
1982	36	
1989	29	
1993	25	
1996	22	C

4) E was born in one of the even numbered years after B.

5) Three members were born between H and F.

6) D was born before G.

Year	Age	Name
1949	69	A
1954	64	D
1972	46	H
1978	40	B
1982	36	E
1989	29	G
1993	25	F
1996	22	C

Hence, H is the 3<sup>rd</sup> eldest member of the family.

42. Ans. E.

Members: A, B, C, D, E, F, G and H

Years: 1978, 1996, 1949, 1993, 1954, 1989, 1972 and 1982

1) A is the oldest member.

2) Two members were born between A and B.

Year	Age	Name
1949	69	A
1954	64	
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 5) Three members were born between H and F.  
 6) D was born before G.

Year	Age	Name
1949	69	A
1954	64	D
1972	46	H
1978	40	B
1982	36	E
1989	29	G
1993	25	F
1996	22	C

Both G and F is younger to E but elder to C. G – 1989 – 29 year

F – 1993 – 25 year

Hence, All I, II and III is younger to E but elder to C.

43. Ans. E.

Members: A, B, C, D, E, F, G and H

Years: 1978, 1996, 1949, 1993, 1954, 1989, 1972 and 1982

- 1) A is the oldest member.
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Year	Age	Name
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1954	64	D
1972	46	H
1978	40	B
1982	36	E
1989	29	G
1993	25	F
1996	22	C

There are four person A, D, H, B which are elder than E.

Hence, none of these is the correct answer.

44. Ans. C.

Members: A, B, C, D, E, F, G and H

Years: 1978, 1996, 1949, 1993, 1954, 1989, 1972 and 1982

- 1) A is the oldest member.
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1982	36	
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1996	22	



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(This condition is possible only when C is 22 years old. Therefore, H was born in 1972.)

Year	Age	Name
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4) E was born in one of the even numbered year after B.

5) Three members were born between H and F.

6) D was born before G.

Year	Age	Name
1949	69	A
1954	64	D
1972	46	H
1978	40	B
1982	36	E
1989	29	G
1993	25	F
1996	22	C

D = 1954 - 64 year.

45. Ans. D.

Members: A, B, C, D, E, F, G and H

Years: 1978, 1996, 1949, 1993, 1954, 1989, 1972 and 1982

1) A is the oldest member.

2) Two members were born between A and B.

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Year	Age	Name
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1954	64	D
1972	46	H
1978	40	B
1982	36	E
1989	29	G
1993	25	F
1996	22	C

C who is 22 year old and born in 1996 is the youngest member of the family.

46. Ans. D.

Conclusions:

Some arrows are guns (Not true)

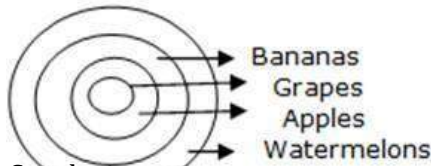
Some toys are arrows (Not True)

Hence Option D is correct

Arrows Toys

Guns

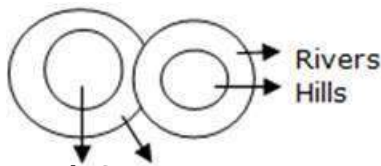
47. Ans. E.



Conclusions:

Some bananas are grapes (True) Some watermelons are apples (True) Hence Option E is correct

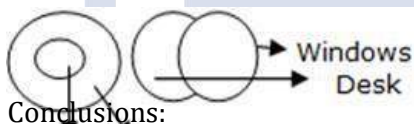
48. Ans. A.



Conclusions:

Some rivers are stones (True) Some rivers are metals (Not true) Hence Option A is correct

49. Ans. C.



Conclusions:

Some windows are tickets (Not True) No window is ticket (Not true)

Thus either of the above can be true.

Hence Option C is correct

50. Ans. C.

The food chain describes who eats whom in the wild. It starts with the primary source like the sun or hydrothermal vents where producers make food, continues with consumers or animals who eat the food, and ends with the top predator. In a classroom a teacher can easily demonstrate on food chain by giving so many ecological examples to the learners, so that on asking them for making a food chain learners can easily make possible food chain operating in different habitats.

51. Ans. D.

A mixture of sand and salt can be separated by combination of methods. The first method is sedimentation and decantation. This mixture is put in water and left for the sand to settle for some time. Then, we will decant the salty water, which will separate the sand from the mixture. Now the salt can be separated from the water by evaporation. The water will boil away, leaving the salt behind. So, the mixture of the sand, salt and water has been separated successfully using a combination of sedimentation, decantation, evaporation and condensation.

52. Ans. D.

This is because she could not explain the related concept effectively in the class.

53. Ans. C.

Given statements:  $V \leq K < D = S$ ;  $D < B < O$ ;  $A \geq D < T$

On combining:  $V \leq K < D < B < O$ ;  $A \geq D = S$ ;  $D < T$

Conclusions:

I.  $A > B \rightarrow$  False (as  $A \geq D < B \rightarrow$  thus clear relation between A and B cannot be Determined)

II.  $V < T \rightarrow$  True (as  $V \leq K < D < T \rightarrow V < T$ )

Therefore, only conclusion II is true.

54. Ans. B.

Given statements:  $C \leq R \leq N = K \geq F$ ;  $Q \geq K < O$ ;  $D \geq L$ ;  $C \geq D \leq T \geq Z$

On combining:  $C \leq R \leq N = K < O$ ;  $F \leq K = N \geq R \geq C \geq D \leq T \geq Z$

Conclusions:

I.  $C < O \rightarrow$  True (as  $C \leq R \leq N = K < O \rightarrow C < O$ )

II.  $D < N \rightarrow$  False (as  $D \leq C \leq R \leq N \rightarrow D < N$ )

55. Ans. A.

Floor	Person
7	P
6	T
5	Q
4	V
3	R
2	S
1	U

Only one person live on the floor above T i.e is P

56. Ans. C.

Floor	Person
7	P
6	T
5	Q
4	V
3	R
2	S
1	U

Two persons (R & S) live between V and U.

57. Ans. D.

Letter	L	A	Y	O	U	T
Position	12	1	25	15	21	20

Forward pair: LO

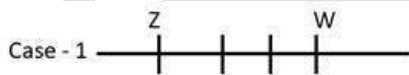
Backward pair: TU

Hence, there are two such group.

58. Ans. A.

1) There are as many people to the right of Z as there are to the left of Z.

2) Two persons sit between W and Z.



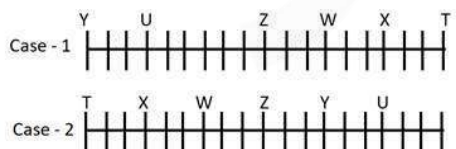
3) There are five persons sitting between T and W.

4) X sits exactly in the middle of T and W.

5) T sits at one of the extreme ends of the row.

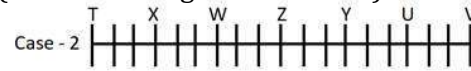
6) Y is third to the left of U who sits fourth from one of the extreme ends of the row.

7) Y does not sit at one of the extreme ends of the row.



8) There are as many persons sitting between Y and V as many are sitting between W and Y.

(Here case - 1 gets eliminated)



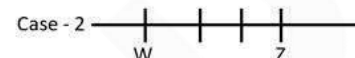
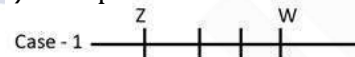
Hence, the above arrangement is the final arrangement.

Hence, Y is sitting exactly in the middle of Z and U.

59. Ans. D.

1) There are as many people to the right of Z as there are to the left of Z.

2) Two persons sit between W and Z.



3) There are five persons sitting between T and W.

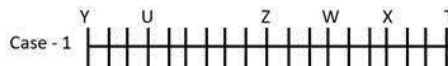
4) X sits exactly in the middle of T and W.

5) T sits at one of the extreme ends of the row.



6) Y is third to the left of U who sits fourth from one of the extreme ends of the row.

7) Y does not sit at one of the extreme ends of the row.



8) There are as many persons sitting between Y and V as many are sitting between W and Y.

(Here case - 1 gets eliminated)

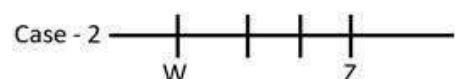
Hence, the above arrangement is the final arrangement.

Hence, there are 19 persons sitting in the row.

60. Ans. C.

1) There are as many people to the right of Z as there are to the left of Z.

2) Two persons sit between W and Z.



3) There are five persons sitting between T and W.

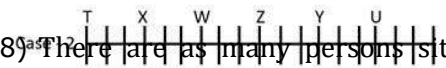
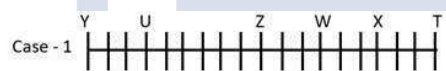
4) X sits exactly in the middle of T and W.

5) T sits at one of the extreme ends of the row.



6) Y is third to the left of U who sits fourth from one of the extreme ends of the row.

7) Y does not sit at one of the extreme ends of the row.



8) There are as many persons sitting between Y and V as many are sitting between W and Y.

(Here case - 1 gets eliminated)

Hence, the above arrangement is the final arrangement.

Hence, there are six persons sitting to the right of Y.

61. Ans. B.

Refer to the last question of the series.

62. Ans. D.

Refer to the last question of the series.

63. Ans. A.

Refer to the last question of the series.

64. Ans. D.

Refer to the last question of the series.

65. Ans. E.

While arranging sentences in a paragraph, it is important to understand the central theme or the main event so that the subsequent themes and the series of events can be well adjusted.

Statement E introduces the SMCs of Delhi which is the main topic of the passage and talks about the initiatives taken for the transformation. Statement A should follow it as it talks about the progress of the SMCs and Delhi government by using the phrase "has gone a long way" in the sentence. Statement B should come next which states how everything came about with the help of a past instance. It should then be followed by statement D which states statistical results. Statement F will be next as it states how last year's success prompted the government to organise summer camps this year which are currently underway. Next should be statement C because it concludes the passage by validating the change in the working and function of SMCs. Also, it starts with word "Clearly" reflects the ending note of the passage.

Hence, the correct sequence is EABDFC.

66. Ans. C.

Refer to the first statement of the passage: "It is difficult to compare countries because various factors such as size, culture, history, geography, natural endowments, geopolitics and internal polity come into play". Hence, option C is the correct response.

67. Ans. D.

Refer these lines from the passage: "It is interesting to note that the main lessons the Chinese have drawn from their past performance is their failure to promote science and technology as strategic tools for empowerment. They also point to the absence of mechanisms and motivations in their economic activity to promote dependence on science and technology. Similarly, they hold that their scientific and technological efforts were not oriented towards economic growth". Thus, it is obvious that all the three points can be easily inferred from the context provided. Hence, option D is correct



68. Ans. B.

Refer to the following statement of the passage: "A large number of scientific and technological achievements were not converted into productive forces as they were too far removed from China's immediate economic and social needs." Hence, option B is the right response.

69. Ans. E.

Refer to the following statement of the passage: "The Chinese vision is therefore aimed at exploiting state-of-art science and technology to enhance the nation's overall power and strength, to improve the people's living standards, to focus on resolving problems encountered in large-scale industrial and agricultural production and to effectively control and alleviate pressures brought on by population, resources and the environment." Hence, option E is the right response.

70. Ans. B.

Refer these lines from the passage: "By the year 2000, China had aimed at bringing the main industrial sectors upto the technological levels achieved by the developed countries in the 1970s or 80s, and by 2020 to the level they would have attained by the early twenty- first century. The aim is to bridge the overall gap with the advanced world." Hence, option B is correct

71. Ans. D.

The paragraph highlights the need of science and technology to boost up the country's growth which has been clearly stated by indicating the example of China's economy and its growth over the past years. Hence, option D is the right response.

72. Ans. E.

"Endowment" means a quality or ability possessed or inherited by someone. Similar to this is "gift" which means a thing given willingly to someone without payment; a present. Hence, option E is the right response.

73. Ans. A.

To be **oriented** is to be positioned in a direction relative to something or someplace else. Here, the direction is of economic growth. Similar to this is "aligned" which means put (things) into correct or appropriate relative positions. Hence, option A is the correct response.

74. Ans. B.

**Crucial** means decisive or critical, especially in the success or failure of something. **Trivial** means of very little importance or value; insignificant.

**Imperative** means of vital importance; crucial.

Hence, option B is the correct response.

75. Ans. A.

**Pivotal** means of crucial importance in relation to the development or success of something else.

**Irrelevant** refers to something which holds negligible significance.

Hence, option A is the right response.

76. Ans. A.

The clause in part (1) has 'Apotheosis' as the subject and 'them' as the object. This would have been correct if this was the complete sentence here. But since, this clause is a part of the bigger sentence and we can see 'them' being the subject of the following clause (due to the presence of the relative pronoun 'who'), we should use the pronoun 'those' instead of 'them'. 'Those' is a pronoun for subjects. Hence, the correct answer is option A.

77. Ans. D.

Grammatically, the whole sentence is correct. But, the use of 'extreme' in the part (4) is wrong. The noun that is being described here is 'their limited outer cover', which seems excessive due to the sun. As adjectives, the difference between **excessive** and **extreme** is that **excessive** is exceeding the usual bounds of something; extravagant; immoderate while **extreme** is of a place, the most remote, farthest or outermost. Since, 'their limited outer cover' is not a place, 'excessive' is the correct word for this case. Hence, the correct answer is D.

78. Ans. A.

"Passed" is the past participle of the verb *to pass*, meaning *to move on or ahead; proceed*. But there is already a verb "went" present. So, part (1) can be corrected by two ways. Either change 'passed' into 'past' which would make 'went' as the main verb with 'past' acting as the adverb, or remove 'went' and write 'passed by them'. Hence, the correct answer is A.

79. Ans. A.

Many readings are taken to study the pollution level of any city. But the sentence says 'one taken from this morning', which means we are talking about a particular reading. So, the article 'the' should be present before 'one'. Hence, the correct answer is A.

80. Ans. B.

'So much' is used here to show an extreme love of shoes. Whenever, 'so much' is used to show such extent, it is followed by 'that'. 'So much. that' translates to 'to such an extent'.

So, even though buying shoes was the next event in sequence, it should be 'that' instead of 'then'. Hence, the correct answer is B.

81. Ans. D.

The use of "since" in statement A is incorrect. "Since" is used when a particular time has been mentioned.

The given statement B is in the present tense. Hence, the use of "had" is wrong. Statement C has error of plurality. Thus, "s" has to be added to the word year. Thus, option D is the correct alternative here as "for" is used when the time given is specified or countable.

82. Ans. A.

The above sentence is talking about a past incident on a present day. Hence, it should use first form of verb, i.e., "should have been" shouldn't be used here. Only option A fits correctly. Hence, option A is correct.

83. Ans. A.

B- "giving him task" can more appropriately be conveyed by "tasking".

C- "dangerous mission tasks" do not make much sense. "Tasks with dangerous missions" can be given, but not "mission tasks". D- "Missioning" is not an actual word.

E- "By form of" is incorrect. "By" must be replaced by "in the" to make the sentence correct, as "by" shows how an action is done while "in" indicates something and is used to express while doing something.

Hence, the correct answer is A.

84. Ans. A.

In the given context, a single measure doesn't suit but a combination of measures. Moreover, "stringent measures" will never be announced 'for' or 'at' someone but 'against' someone. Hence, 'measures announced against those' is the correct answer.

85. Ans. B.

In the given sentence, "affects" is the verb and "adversely" (the adverb form of adverse) should be the adverb. They do not require a preposition between them to be in sync with the subject.

Hence, option B is the correct answer.

86. Ans. B.

The first option "by the start of" uses the preposition "by" which is generally used for identifying the agent performing an action. Hence it is not correct to use it here. The second option "During the start of" marks the time period between the initial stages of the conflict. It is during that period when the soldiers gained an upper hand over the opponents by positioning themselves in key locations.

The third option "for the start off" is not correct as the preposition "for" is only used to show reason or purpose which is not suitable in this case. It also uses the adverb "off" which is not correct.

The fourth option "since the start of" as it uses the preposition "since" which refers to the intervening period between the time mentioned and the time under consideration, typically the present. Hence, the correct answer is option B.

87. Ans. B.

Since the sentence is in past tense, there must be 'blamed' instead of 'blaming' in option B. Thus, the correct answer is option B.

88. Ans. B.

Since Hindustan petroleum is a company, there must be 'the' in front of 'state run Indian refiner'. Thus, the correct answer is option B.

89. Ans. C.

In option C, an incorrect conjunction 'but' has been used. The two clauses are neither in contrast nor is one trying to gain more importance than the other. Thus, the correct conjunction to be used here is 'and'. Hence, option C is the right response.

90. Ans. E.

In option A, 'has taken' is incorrectly used since the sentence is in future tense. In option B, using 'before' is incorrect because the person is evidently 'taking charge' after some problem.

In option C, the preposition 'for' has been incorrectly used. The captain of one team cannot take charge of the opposition. In option D, 'had taken' is incorrectly used since the sentence is in future tense. Thus, all the options are incorrect making option E the correct answer.

91. Ans. B.

It has been mentioned in the given sentence that the infantry was activated only for civil services. This means that this infantry did not serve during international wars. Thus, it can be said the infantry was non- military in nature or a peacetime infantry.

"Mammoth" means huge. "Truce" is an agreement between enemies to stop fighting. "Exploit" means to make full use of and derive benefits from a resource. These words are irrelevant, and 'wartime' does not agree with the context of the passage. Thus, option B is the correct answer.

92. Ans. C.

"Polished" means refined. "Abducted" means to kidnap. "Surrendered" means to stop resisting to an enemy or an opponent to their authority. "Subdued" means soft and restrained.

"Notoriety" refers to the state of becoming famous for a bad quality. The mention of 'as the first unit in the Union army to suffer fatal casualties in action' indicates that the regiment earned the notoriety of being so. Thus, 'gained' fits the blank space appropriately and option C is the correct answer.

93. Ans. E.

Note that the blank space is followed by the preposition 'to as the...'. None of the words but 'referred' can thus fit the blank space. Hence, option E is the correct answer.

94. Ans. B.

The concerned sentence talks about the 6th Regiment Massachusetts Volunteer Militia as it existed before the war and during its first enlistment. Thus, all the words except 'consisted' do not make sense in the given context. Hence, option B is the correct answer.

95. Ans. A.

"Persuaded" means to induce someone to do something through reasoning or argument. "Enthralled" means to capture the fascinated attention of someone. "Obligated" means to require or compel someone to undertake a legal or moral duty. "Performed" means to carry out, accomplish, or fulfill an action, task, or function.

The concerned sentence is in continuation of the previous one that mentions that Colonel Edward F. Jones commanded or headed the regiment during its first term. The concerned sentence mentions 26th Massachusetts, which is the name of a regiment. So, Colonel Edward

F. Jones must have also commanded this regiment. All the other words are irrelevant with reference to the context. Thus, option A is the correct answer.

96. Ans. C.

"Protected" means to keep safe from harm or injury. "Promoted" means to support or actively encourage a cause, venture, etc. "Serviced" means to perform routine maintenance or repair work on a vehicle or machine. "Engorged" means cause to swell with blood, water, or another fluid. "Enlisted" means to enroll or be enrolled in the armed services.

The given passage is concerned about the armed force and the sentence in question talks about a term period. Thus, option C is the best fit answer. "Serviced" is incorrect while 'served' would have been correct if the word service was not mentioned later in the sentence.

97. Ans. A.

"Courtied" means to be involved with someone romantically, with the intention of marrying. "Outnumbered" means to be more numerous than some other group. "Synchronized" means to cause to occur or operate at the same time or rate. "Obliterated" means to destroy utterly. "Proceeded" means to begin a course of action.

The mention of 'Following their engagement in the Baltimore Riot', indicates that the regiment performed an action to provide service. 'To Washington' indicates that they moved to Washington. Thus, 'proceeded' is the best fit word. Also, note that none of the



words but 'proceeded' can be followed by the preposition 'to'. Thus, the correct answer is option A.

98. Ans. D.

"Postponed" means to cause or arrange for something to take place at a time later than that first scheduled. "Lasted" means to continue for a specified period of time. Since the blank space is immediately followed by 'nine months' which indicates time, 'lasted' is the best fit word. The usage of 'postponed' would render the sentence grammatically incorrect. "Began" would also require the preposition 'from' to follow it. Thus, option D is the correct answer.

99. Ans. A.

"Coasted" means to move easily without using power. "Perplexed" means to make someone feel completely baffled. "Mortified" means to cause someone to feel very embarrassed or ashamed. "Imputed" means to represent something, especially something undesirable as being done or possessed by someone; attribute. "Earned" means to gain deservedly in return for one's behaviour or achievements. The concerned sentence talks about what Private Joseph S.G. Sweatt's bravery at Carrsville do to him. And after the blank, it is stated, 'him the Medal of Honor'. This means that he obtained a medal. Thus, option A is the best fit answer.

100. Ans. B.

"Stole" means to take another person's property without asking. "Banished" means to send someone away from a country or place as an official punishment. "Confound" means to cause confusion or surprise in someone. "Summed" means to add. "Guarded" means to watch over in order to protect or control. The concerned sentence states what C. F. Smith did while he was in Arlington, Virginia. Since they are already prisoners, they need not be banished. 'Summed', 'entertained' and 'stole' are out of context. 'Guarded', on the other hand is the most appropriate word. Thus, option B is the best fit answer.

101. Ans. B.

Refer to the last question of the series.

102. Ans. D.

Refer to the last question of the series.

103. Ans. A.

Refer to the last question of the series.

104. Ans. D.

Refer to the last question of the series.

105. Ans. E.

While arranging sentences in a paragraph, it is important to understand the central theme or the main event so that the subsequent themes and the series of events can be well adjusted.

Statement E introduces the SMCs of Delhi which is the main topic of the passage and talks about the initiatives taken for the transformation. Statement A should follow it as it talks about the progress of the SMCs and Delhi government by using the phrase "has gone a long way" in the sentence. Statement B should come next which states how everything came about with the help of a past instance. It should then be followed by statement D which states statistical results. Statement F will be next as it states how last year's success prompted the government to organise summer camps this year which are currently underway. Next should be statement C because it concludes the passage by validating the change in the working and function of SMCs. Also, it starts with word "Clearly" reflects the ending note of the passage.

Hence, the correct sequence is EABDFC.

106. Ans. C.

Refer to the first statement of the passage: "It is difficult to compare countries because various factors such as size, culture, history, geography, natural endowments, geopolitics and internal polity come into play". Hence, option C is the correct response.

107. Ans. D.

Refer these lines from the passage: "It is interesting to note that the main lessons the Chinese have drawn from their past performance is their failure to promote science and technology as strategic tools for empowerment. They also point to the absence of mechanisms and motivations in their economic activity to promote dependence on science and technology. Similarly, they hold that their scientific and technological efforts were not oriented towards economic growth".



Thus, it is obvious that all the three points can be easily inferred from the context provided. Hence, option D is correct

108. Ans. B.

Refer to the following statement of the passage: "A large number of scientific and technological achievements were not converted into productive forces as they were too far removed from China's immediate economic and social needs." Hence, option B is the right response.

109. Ans. E.

Refer to the following statement of the passage: "The Chinese vision is therefore aimed at exploiting state-of-art science and technology to enhance the nation's overall power and strength, to improve the people's living standards, to focus on resolving problems encountered in large-scale industrial and agricultural production and to effectively control and alleviate pressures brought on by population, resources and the environment." Hence, option E is the right response.

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111. Ans. D.

The paragraph highlights the need of science and technology to boost up the country's growth which has been clearly stated by indicating the example of China's economy and its growth over the past years. Hence, option D is the right response.

112. Ans. E.

"Endowment" means a quality or ability possessed or inherited by someone. Similar to this is "gift" which means a thing given willingly to someone without payment; a present. Hence, option E is the right response.

113. Ans. A.

To be **oriented** is to be positioned in a direction relative to something or someplace else. Here, the direction is of economic

growth. Similar to this is "aligned" which means put (things) into correct or appropriate relative positions. Hence, option A is the correct response.

114. Ans. B.

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Hence, option B is the correct response.

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**Pivotal** means of crucial importance in relation to the development or success of something else.

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The clause in part (1) has 'Apotheosis' as the subject and 'them' as the object. This would have been correct if this was the complete sentence here. But since, this clause is a part of the bigger sentence and we can see 'them' being the subject of the following clause (due to the presence of the relative pronoun 'who'), we should use the pronoun 'those' instead of 'them'. 'Those' is a pronoun for subjects. Hence, the correct answer is option A.

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Grammatically, the whole sentence is correct. But, the use of 'extreme' in the part (4) is wrong. The noun that is being described here is 'their limited outer cover', which seems excessive due to the sun. As adjectives, the difference between **excessive** and **extreme** is that **excessive** is exceeding the usual bounds of something; extravagant; immoderate while **extreme** is of a place, the most remote, farthest or outermost. Since, 'their limited outer cover' is not a place, 'excessive' is the correct word for this case. Hence, the correct answer is D.

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119. Ans. A.

Many readings are taken to study the pollution level of any city. But the sentence says 'one taken from this morning', which means we are talking about a particular reading. So, the article 'the' should be present before 'one'. Hence, the correct answer is A.

120. Ans. B.

'So much' is used here to show an extreme love of shoes. Whenever, 'so much' is used to show such extent, it is followed by 'that'. 'So much. that' translates to 'to such an extent'.

So, even though buying shoes was the next event in sequence, it should be 'that' instead of 'then'. Hence, the correct answer is B.

121. Ans. D.

The use of "since" in statement A is incorrect. "Since" is used when a particular time has been mentioned.

The given statement B is in the present tense. Hence, the use of "had" is wrong. Statement C has error of plurality. Thus, "s" has to be added to the word year. Thus, option D is the correct alternative here as "for" is used when the time given is specified or countable.

122. Ans. A.

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124. Ans. A.

In the given context, a single measure doesn't suit but a combination of measures. Moreover, "stringent measures" will never be announced 'for' or 'at' someone but 'against' someone. Hence, 'measures announced against those' is the correct answer.

125. Ans. B.

In the given sentence, "affects" is the verb and "adversely" (the adverb form of adverse) should be the adverb. They do not require a preposition between them to be in sync with the subject.

Hence, option B is the correct answer.

126. Ans. B.

The first option "by the start of" uses the preposition "by" which is generally used for identifying the agent performing an action. Hence it is not correct to use it here. The second option "During the start of" marks the time period between the initial stages of the conflict. It is during that period when the soldiers gained an upper hand over the opponents by positioning themselves in key locations.

The third option "for the start off" is not correct as the preposition "for" is only used to show reason or purpose which is not suitable in this case. It also uses the adverb "off" which is not correct.

The fourth option "since the start of" as it uses the preposition "since" which refers to the intervening period between the time mentioned and the time under consideration, typically the present. Hence, the correct answer is option B.

127. Ans. B.

Since the sentence is in past tense, there must be 'blamed' instead of 'blaming' in option B. Thus, the correct answer is option B.

128. Ans. B.

Since Hindustan petroleum is a company, there must be 'the' in front of 'state run Indian refiner'. Thus, the correct answer is option B.

129. Ans. C.

In option C, an incorrect conjunction 'but' has been used. The two clauses are neither in contrast nor is one trying to gain more importance than the other. Thus, the correct conjunction to be used here is 'and'. Hence, option C is the right response.

130. Ans. E.

In option A, 'has taken' is incorrectly used since the sentence is in future tense. In option B, using 'before' is incorrect because the person is evidently 'taking charge' after some problem.

In option C, the preposition 'for' has been incorrectly used. The captain of one team cannot take charge of the opposition. In option D, 'had taken' is incorrectly used since the sentence is in future tense. Thus, all the options are incorrect making option E the correct answer.

131. Ans. B.

It has been mentioned in the given sentence that the infantry was activated only for civil services. This means that this infantry did not serve during international wars. Thus, it can be said the infantry was non-military in nature or a peacetime infantry.

"Mammoth" means huge. "Truce" is an agreement between enemies to stop fighting. "Exploit" means to make full use of and derive benefits from a resource. These words are irrelevant, and 'wartime' does not agree with the context of the passage. Thus, option B is the correct answer.

132. Ans. C.

"Polished" means refined. "Abducted" means to kidnap. "Surrendered" means to stop resisting to an enemy or an opponent to their authority. "Subdued" means soft and restrained.

"Notoriety" refers to the state of becoming famous for a bad quality. The mention of 'as the first unit in the Union army to suffer fatal casualties in action' indicates that the regiment earned the notoriety of being so. Thus, 'gained' fits the blank space appropriately and option C is the correct answer.

133. Ans. E.

Note that the blank space is followed by the preposition 'to as the...'. None of the words but 'referred' can thus fit the blank space. Hence, option E is the correct answer.

134. Ans. B.

The concerned sentence talks about the 6th Regiment Massachusetts Volunteer Militia as it existed before the war and during its first

enlistment. Thus, all the words except 'consisted' do not make sense in the given context. Hence, option B is the correct answer.

135. Ans. A.

"Persuaded" means to induce someone to do something through reasoning or argument. "Enthralled" means to capture the fascinated attention of someone. "Obligated" means to require or compel someone to undertake a legal or moral duty. "Performed" means to carry out, accomplish, or fulfill an action, task, or function.

The concerned sentence is in continuation of the previous one that mentions that Colonel Edward F. Jones commanded or headed the regiment during its first term. The concerned sentence mentions 26th Massachusetts, which is the name of a regiment. So, Colonel Edward

F. Jones must have also commanded this regiment. All the other words are irrelevant with reference to the context. Thus, option A is the correct answer.

136. Ans. C.

"Protected" means to keep safe from harm or injury. "Promoted" means to support or actively encourage a cause, venture, etc. "Serviced" means to perform routine maintenance or repair work on a vehicle or machine. "Engorged" means cause to swell with blood, water, or another fluid. "Enlisted" means to enroll or be enrolled in the armed services.

The given passage is concerned about the armed force and the sentence in question talks about a term period. Thus, option C is the best fit answer. "Serviced" is incorrect while 'served' would have been correct if the word service was not mentioned later in the sentence.

137. Ans. A.

"Courtied" means to be involved with someone romantically, with the intention of marrying.

"Outnumbered" means to be more numerous than some other group. "Synchronized" means to cause to occur or operate at the same time or rate. "Obliterated" means to destroy utterly. "Proceeded" means to begin a course of action.



The mention of 'Following their engagement in the Baltimore Riot', indicates that the regiment performed an action to provide service. 'To Washington' indicates that they moved to Washington. Thus, 'proceeded' is the best fit word. Also, note that none of the words but 'proceeded' can be followed by the preposition 'to'. Thus, the correct answer is option A.

138. Ans. D.

"Postponed" means to cause or arrange for something to take place at a time later than that first scheduled. "Lasted" means to continue for a specified period of time. Since the blank space is immediately followed by 'nine months' which indicates time, 'lasted' is the best fit word. The usage of 'postponed' would render the sentence grammatically incorrect. "Began" would also require the preposition 'from' to follow it. Thus, option D is the correct answer.

139. Ans. A.

"Coasted" means to move easily without using power. "Perplexed" means to make someone feel completely baffled. "Mortified" means to cause someone to feel very embarrassed or ashamed. "Imputed" means to represent something, especially something undesirable as being done or possessed by someone; attribute. "Earned" means to gain deservedly in return for one's behaviour or achievements. The concerned sentence talks about what Private Joseph S.G. Sweatt's bravery at Carrsville do to him. And after the blank, it is stated, 'him the Medal of Honor'. This means that he obtained a medal. Thus, option A is the best fit answer.

140. Ans. B.

"Stole" means to take another person's property without asking. "Banished" means to send someone away from a country or place as an official punishment. "Confound" means to cause confusion or surprise in someone. "Summed" means to add. "Guarded" means to watch over in order to protect or control. The concerned sentence states what C. F. Smith did while he was in Arlington, Virginia. Since they are already prisoners, they need not be banished. 'Summed', 'entertained' and 'stole' are out of context. 'Guarded', on the other hand is the most appropriate word. Thus, option B is the best fit answer.

141. Ans. C.

The state government of Madhya Pradesh has launched a new scheme named as "Bhavantar Bhugtan Yojana" (Price Deficit Financing Scheme) to hedge price risks in agriculture sector. The objective of the scheme is to provide the compensation for agriculture products whenever its price falls below the announced minimum support prices (MSP) by the central government.

142. Ans. D.

- Philips curve reflects the relationship between rate of inflation and rate of unemployment.

- It shows that the relationship is negative.

- At the high rate of inflation the unemployment rate is low.

143. Ans. C.

- According to the UN's World Economic Situation and Prospects (WESP) 2019, India's GDP growth is expected to accelerate to 7.6 per cent in 2019-20 from an estimated 7.4 per cent in the current fiscal ending March 2019.

- The report further said the global economy would continue to grow at a steady pace of around 3 per cent in 2019 and 2020 amid signs that global growth has peaked.

- The International Monetary Fund (IMF) projected India's growth at 7.5% in 2019-20 amid slower global expansion.

144. Ans. B.

- Frictional unemployment is the unemployment which exists in any economy due to people being in the process of moving from one job to another.

- Structural unemployment is a form of unemployment caused by a mismatch between the skills that workers in the economy can offer, and the skills demanded of workers by employers (also known as the skills gap).

- Cyclical unemployment is a factor of overall unemployment that relates to the cyclical trends in growth and production that occur within the business cycle. When business cycles are at their peak, cyclical unemployment will be low because total economic output is being maximized



145. Ans. A.

According to the SECC 2011, the total number of Household were around 24.39 crore in which the Rural Household were around 17.91 Crore and Urban Households were around 6.48 Crore

146. Ans. D.

Ayushman Bharat is National Health Protection Scheme, which will cover over 10 crore poor and vulnerable families (approximately 50 crore beneficiaries) providing coverage upto 5 lakh rupees per family per year for secondary and tertiary care hospitalization. Ayushman Bharat - National Health Protection Mission will subsume the on- going centrally sponsored schemes - Rashtriya Swasthya Bima Yojana (RSBY) and the Senior Citizen Health Insurance Scheme (SCHIS).

147. Ans. D.

In economics, the GDP deflator (implicit price deflator) is a measure of the level of prices of all new, domestically produced, final goods and services in an economy in a year.

The GDP deflator is a measure of price inflation. It is calculated by dividing Nominal GDP by Real GDP and then multiplying by 100. (Based on the formula). Nominal GDP is the market value of goods and services produced in an economy, unadjusted for inflation.

148. Ans. E.

The Pradhan Mantri Fasal Bima Yojana (PMFBY) was designed to provide crop insurance. In India, farmers are facing various problems in production because of monsoon, lack of water, etc. The states will wait for the Central Government's share, irrespective of the cropping density in the region and irrespective of whether the region is rain-fed or irrigated. Allowing states to design their own crop insurance schemes and yet providing the Central government share of the premium would yield better results.

149. Ans. C.

- Inflation target is set by the Govt. in consultation with RBI, once in every five years.
- Inflation target- is measured by the consumer price index-combined (CPI-C)

- Inflation target is 4% (+/-) 2% for the period from August 5, 2016 to March 31, 2021.

- If the average inflation is more than the upper tolerance level of 4% + 2%, that is, 6%, or less than the lower tolerance level of 4%- 2%, that is 2%, for any 3 consecutive quarters, it would mean a failure to achieve the inflation target.

- Where RBI fails to meet the inflation target, it shall set out a report to the Central Government stating the reasons for failure to achieve the inflation target; remedial actions proposed to be taken by RBI; and an estimate of the time-period within which the inflation target shall be achieved pursuant to timely implementation of proposed remedial actions.

150. Ans. C.

The **Human Development Index (HDI)** is a statistical tool used to measure a country's overall achievement in its social and economic dimensions.

The social and economic dimensions of a country are based on -

- A long and healthy life: Life expectancy at birth.
- Education **index**: Mean years of schooling and Expected years of schooling.
- A decent standard of living: GNI per capita
- The Human Development Report (HDR) is an annual report published by the Human Development Report Office of the **United Nations Development Programme (UNDP)**.
- India ranked at 130 spots in the human development index (HDI) 2018.
- The top five countries in the global HDI ranking were Norway (0.953), Switzerland (0.944), Australia (0.939), Ireland (0.938) and Germany (0.936).

151. Ans. B.

The SGSY(Swarnajayanti Gram Swarozgar Yojana) aims at providing Self-employment" to villagers through the establishment of Self- help group (finance).

The initial **scheme Swarnajayanti Gram Swarozgar Yojana (SGSY) was launched** in 1999. It was renamed as National Rural Livelihood Mission in 2011 now renamed as "**Ajeevika**".

Finally, they were merged into **Deen Dayal Antyodaya Yojana** or **DAY**.

152. Ans. B.

Pradhan Mantri Kaushal Vikas Yojana (PMKVY) is the flagship scheme of the **Ministry of Skill Development & Entrepreneurship (MSDE)**.

- The objective of this Skill Certification Scheme is to enable a large number of Indian youth to take up industry-relevant skill training that will help them in securing a better livelihood.
- Individuals with prior learning experience or skills will also be assessed and certified under Recognition of Prior Learning (RPL).
- Under this Scheme, Training and Assessment fees are completely paid by the Government.
- Skill training would be done based on the National Skill Qualification Framework (NSQF) and industry-led standards.

153. Ans. B.

Uttar Pradesh is the most populous state in India, with **199,581,477 people** as on 1 March 2011

The state contributes **16.16 per cent of India's population**

The population density is 828 people per square kilometre, making it one of the most densely populated states in the country

The **sex ratio** in 2011 was 908 women to 1000 men, lower than the national figure of 933.

The **literacy rate** of the state at the 2011 census was 67.7 per cent, which was below the national average of 74 per cent. The literacy rate for men is 79 per cent and for women is 59 per cent.

As per census 2011, Maharashtra is the second and Bihar is the third most populous state of India.

154. Ans. A.

The Inclusive Development Index (IDI) is published by World Economic Forum. It is an annual assessment of 103 countries' economic performance that measures how countries perform on eleven dimensions of economic progress in addition to GDP.

155. Ans. D.

Finance Minister Arun Jaitley allocated Rs 55,000 crore for Mahatma Gandhi National Rural Employment Guarantee Scheme

(MNREGS) for the financial year 2018-19, signalling the government's continued intent to address concerns of rural distress in a politically significant year.

156. Ans. C.

- The South Asian Association for Regional Cooperation (SAARC) is the regional intergovernmental organization and geopolitical union of nations in South Asia.
- Its member states include Afghanistan, Bangladesh, Bhutan, India, Nepal, the Maldives, Pakistan and Sri Lanka.
- It was founded on 08 December 1985 and headquarters is located in Kathmandu, Nepal.
- The organization promotes the development of economic and regional integration.

157. Ans. D.

The rolling plan is a plan designed and is subjected to continuous review and updation.

The rolling plan was introduced in the 6<sup>th</sup> Five Year Plan from 1978-83.

The time period of such plan was from 1978- 80 and was implemented by the Janata party government by terminating the fifth five-year plan and started a new plan for the year 1978-

83. However, when Congress government again came back in power, they started a sixth five-year plan for the year 1980-85.

158. Ans. E.

In April 2018, the Reserve Bank of India has decided to use Gross Domestic Product (GDP), instead of Gross Value Added (GVA) to measure economic activity in the country.

The change, said Viral Acharya, deputy governor, is to conform with international practice, for ease of comparison. Globally, the performance of economies is gauged in terms of GDP. This approach is also taken by multilateral institutions, international analysts and investors. GVA gives a picture of the state of economic activity from the **producers' side or the supply side** while GDP gives the picture from the consumers' side or the demand perspective.

Both measures need not match because of the difference in treatment of net taxes. This is one of the reasons that in the first quarter of 2015, GDP growth was stronger at 7.5%, while GVA growth was 6.1%.

159. Ans. B.

- NITI Aayog launched the first phase of the 'Grand Innovation Challenge' to seek citizens inputs on the key developmental challenges facing India.
- The 'Grand Innovation Challenge' is being launched on the MyGov portal, to involve citizens at the very first stage in innovating for India's development.
- The idea is to work together with the States and every citizen as Team India to ensure progress, leaving no one behind.
- The focus is on the social sector, the most vulnerable sections and to involve citizens in crowdsourcing ideas to address challenges facing India's development.

160. Ans. A.

As per 2011 census, Bihar state has the lowest literacy rate with 63.82%.

- Literacy rate of India in 2011 is 74.04%.
- The Male literacy rate is 82.14% and Female literacy rate is 65.46%.
- Among the Indian states ---
- Kerala has the highest literacy rate of 93.91% and then Mizoram 91.58%.
- Among the Union Territories, Lakshadweep has the highest literacy rate of 92.28%.
- Male literacy is highest in Lakshadweep 96.11% and Kerala 96.02%.
- Female literacy is highest in Kerala 91.98% and Mizoram 89.40%.
- Lowest male literacy is in Bihar 73.39%.
- Lowest female literacy is in Rajasthan 52.66%.

161. Ans. D.

Services Sector is most vibrant in India in terms of contribution of the national income, FDI as well as employment.

Services Sector attracts the highest percentage of FDI equity flow. It is followed by Construction and telecommunication respectively.

162. Ans. D.

As per SECC, the % of the rural households having a family member who has completed education Up to Higher Secondary is 5.4%.

The Socio-Economic and Caste Census 2011 (SECC) was conducted for the 2011 Census of India.

SECC 2011 was the first-ever caste-based census since 1931 Census of India,[19][20] and it was launched on 29 June 2011 from the Sankhola village of Hazemara block in West Tripura district

- 5.4% of rural India has completed high school.
- 3.4% of rural households have a family member who is a graduate.
- 4.6% of all rural households in India pay income tax.
- 14% of rural households are employed either with the government or the private sector.
- Kerala tops in the number of people with mental ailments in India.
- 1% of rural households own a landline phone without a mobile phone, while 68.35% of rural households have mobile phones as their only phone(s)

163. Ans. C.

The Sustainable Development Goals (SDGs) are a collection of 17 global goals set by the United Nations General Assembly in 2015 for the year 2030. The SDGs are part of Resolution 70/1 of the United Nations General Assembly, the 2030 Agenda.

The Sustainable Development Goals are: 1) No Poverty, 2) Zero Hunger, 3) Good Health and Well-being, 4) Quality Education, 5) Gender Equality, 6) Clean Water and Sanitation, 7) Affordable and Clean Energy, 8) Decent Work and Economic Growth, 9) Industry, Innovation, and Infrastructure, 10) Reducing Inequality, 11) Sustainable Cities and Communities, 12) Responsible Consumption and Production, 13) Climate Action, 14) Life Below Water, 15) Life On Land, 16) Peace, Justice, and Strong Institutions, 17) Partnerships for the Goals. The goals are broad-based and interdependent. The 17 Sustainable Development Goal's each have a list of targets that are measured with indicators.

164. Ans. B.

Consumer Price Index is a measure of the change in retail prices of goods and services consumed by the defined population group in a given area with reference to a base year. The formula for calculating Consumer Price Index is Laspeyre's index which is measured as follows;



[Total cost of a fixed basket of goods and services in the current period \* 100] divided by Total cost of the same basket in the base period  
CPI-C with the base year 2011-12 is used for inflation targeting.

165. Ans. A.

An Agri-Market Infrastructure Fund with a corpus of Rs 2000 crore will be set up for developing and upgrading agricultural marketing infrastructure in the 22,000 Grameen Agricultural Markets (GrAMs) and 585 APMCs.

166. Ans. B.

National Rural Employment Guarantee Act, passed in the year 2005 (or, NREGA No 42, later renamed as the "Mahatma Gandhi National Rural Employment Guarantee Act", MGNREGA), is an Indian labour law and social security measure that aims to guarantee the Right to Work.

167. Ans. E.

The following product groups represent the highest dollar value in India's import purchases during 2017. Also shown is the percentage share each product category represents in terms of overall imports into India.

At the more detailed four-digit Harmonized System Tariff code level, India's most valuable import products are crude oil, gold, diamonds, mobile phones, coal, petroleum gases and palm oil.

- 1) Mineral fuels including oil: US\$123 billion (27.7% of total imports)
- 2) Gems, precious metals: \$74.4 billion (16.7%)
- 3) Electrical machinery, equipment: \$46.9 billion (10.6%)
- 4) Machinery including computers: \$36 billion (8.1%)
- 5) Organic chemicals: \$18 billion (4%)
- 6) Plastics, plastic articles: \$13 billion (2.9%)
- 7) Animal/vegetable fats, oils, waxes: \$11.9 billion (2.7%)
- 8) Iron, steel: \$10 billion (2.2%)
- 9) Optical, technical, medical apparatus: \$8.4 billion (1.9%)
- 10) Ores, slag, ash: \$5.9 billion (1.3%)

168. Ans. C.

The government approved the continuation of Prime Minister's Employment Generation Programme (PMEGP) beyond the 12th Plan period for three years to 2019-20 with a total outlay of Rs 5,500 crore.

The scheme will create sustainable estimated employment opportunities for 15 lakh persons in three financial years.

The decision was taken at a meeting of the Cabinet Committee on Economic Affairs chaired by Prime Minister Narendra Modi here. The Khadi and Village Industries Commission (KVIC) is the nodal implementation agency for the PMEGP at the national level. At the state/district level, state offices of KVIC, Khadi and Village Industries Boards (KVIBs) and District Industry Centres (DIC) are the implementing agencies.

169. Ans. B.

Article 21 of the Constitution of India, 1950 provides that, "No person shall be deprived of his life or personal liberty except according to procedure established by law." 'Life' in Article 21 of the Constitution is not merely the physical act of breathing.

170. Ans. D.

The colour of this year's survey cover was chosen as a symbol of support for the growing movement to end violence against women, which spans continents.

Explaining the significance of the pink cover, the finance ministry's Chief Economic Adviser Arvind Subramanian said, "In our bid to further the cause of women's empowerment, the cover of Economic Survey 2018 is pink." The survey, prepared by the CEA, highlighted that India has lower women participation in the labour force, "adversely affecting the growth potential of the economy".

171. Ans. A.

The data with regard to India is, unfortunately, quite alarming. According to the International Labour Organisation (ILO), India will again see its unemployment rate at

3.5 per cent in 2018 and 2019, the same which was seen in 2017 and 2016.

According to the latest data, there will be 18.9 million jobless people in India next year a little more than 18.6 million for 2018.



172. Ans. C.

Agriculture matters for economic reasons because it still accounts for a substantial part of GDP (16 percent) and employment (49 percent)<sup>1</sup>. Poor agricultural performance can lead to inflation, farmer distress and unrest, and larger political and social disaffection—all of which can hold back the economy.

173. Ans. A.

The reserve tranche is portion of the required quota of currency that each International Monetary Fund (IMF) member country must provide to the IMF that can be utilized for its own purposes without a service fee. The reserve tranche portion of the quota can be accessed by the member nation at any time. This is not true for the rest of a member's quota, of which the member can borrow over 100% but must pay back with interest over a three-year period. Initially member nations' reserve tranches are 25% of their quota, but their reserve tranche position will change according to any lending that the IMF does with its holdings of the member's currency.

174. Ans. D.

- The United Nations Framework Convention on Climate Change (UNFCCC) is an international environmental treaty adopted on 9 May 1992 and opened for signature at the Earth Summit in Rio de Janeiro from 3 to 14 June 1992.
- It then entered into force on 21 March 1994, after a sufficient number of countries had ratified it.
- The UNFCCC objective is to "stabilize greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system.

So, option D is the correct answer.

175. Ans. D.

The Reserve Bank of India (RBI) Governor, Raghuram Rajan, on Tuesday, said that the central bank had adopted the new Consumer Price Index (CPI) (combined) as the key measure of inflation.

Earlier, RBI had given more weightage to Wholesale Price Index (WPI) than CPI as the key measure of inflation for all policy purposes.

**"Some recommendations of Urjit R. Patel Committee report have been implemented, including adoption of the new CPI (combined) as the key measure of inflation,"** said Dr. Rajan, while addressing a press conference here to announce the first bi-monthly monetary policy for 2014-15.

176. Ans. C.

The top 1% of Indian firms account for only 38% of exports, unlike in other countries, where they account for a substantially greater share.

The Economic Survey 2018 has estimated that the Indian economy will grow by 7-7.5% in 2018-19, thereby re-instating India as the world's fastest-growing major economy.

177. Ans. C.

Relative Poverty -

- It is defined from the social perspective that is living standard compared to the economic standards of the population living in surroundings.
- Hence it is a measure of income inequality. For example, a family can be considered poor if it cannot afford vacations, or cannot buy presents for children at Christmas, or cannot send its young to the university.
- Usually, relative poverty is measured as the percentage of the population with income less than some fixed proportion of median income.

**Absolute poverty:** Also known as extreme poverty or abject poverty, it involves the scarcity of basic food, clean water, health, shelter, education and information. Those who belong to absolute poverty tend to struggle to live and experience a lot of child deaths from preventable diseases like malaria, cholera and water-contamination related diseases. Absolute Poverty is usually uncommon in developed countries.

178. Ans. D.

The government and the World Bank signed an agreement with the Maharashtra government **USD 420 million** project to help small and marginal farmers in the state.

179. Ans. E.

Cultural Globalization is defined as the experience of everyday life leading standardization of cultural expressions around the world.

Examples of Cultural Globalization. Cultural globalization integrates scholars from several disciplines, such as anthropology, sociology, **communication**, cultural studies, geography, political science and international relations.

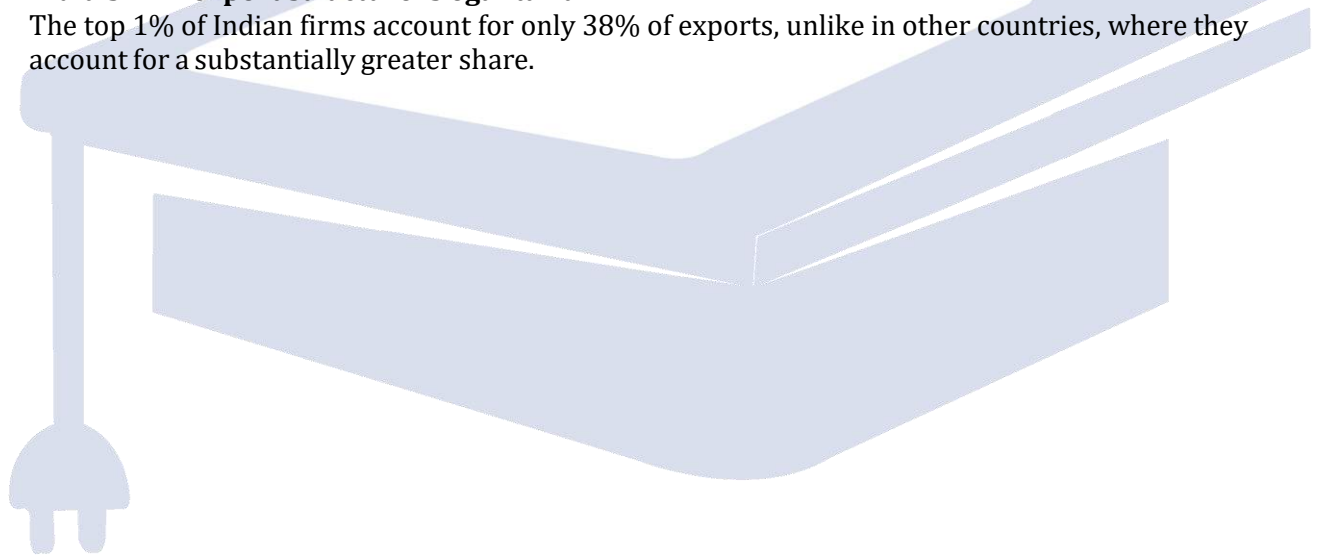
Academic literature commonly subdivides **globalization** into **three** major areas: economic **globalization**, cultural **globalization**, and political **globalization**. Globalization is a process of interaction and integration among the people, companies, and governments of different nations, a process driven by international trade and investment and aided by information technology. This process has effects on the environment, on culture, on political systems, on economic development and prosperity, and on human physical well-being in societies around the world.

180. Ans. A.

As per Economic Survey 2018, a formality, “formality” was defined in terms of social security provisions like EPFO/ESIC, the formal sector payroll was found to be about 31% of the non-agricultural workforce. When “formality” was defined in terms of being part of the GST net, such formal sector payroll share was found to be 53%.

**India's firm export structure is egalitarian**

The top 1% of Indian firms account for only 38% of exports, unlike in other countries, where they account for a substantially greater share.



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