

## General Studies

1. If power of a lens is -0.5 diopter focal length and type of lens is  
(A) **2 m, concave**  
(B) 2 m, convex  
(C) 50 cm, concave  
(D) 50 cm, convex
2. Find the odd one out :  
Related with heat in one action  
(A) Conduction  
(B) Convection  
(C) **Absorption**  
(D) Radiation
3. Match the following
- |                          |                   |
|--------------------------|-------------------|
| (a) Potassium chlorate   | 1. Constipation   |
| (b) Epsom salt           | 2. Match industry |
| (c) Copper sulphate salt | 3. Crackers       |
| (d) Potassium nitrate    | 4. Fungicide      |
- |     | (a) | (b)      | (c)      | (d)      |          |
|-----|-----|----------|----------|----------|----------|
| (A) |     | 3        | 4        | 2        | 1        |
| (B) |     | 2        | 3        | 4        | 1        |
| (C) |     | <b>2</b> | <b>1</b> | <b>4</b> | <b>3</b> |
| (D) |     | 3        | 4        | 1        | 2        |
4. Find the correct statement/s :  
I. After the release of the ovum the ruptured graffian follicle is transformed into corpus luteum  
II. Corpus luteum a transitory endocrine gland  
(A) I wrong II correct  
(B) I correct II wrong  
(C) Both I and II are wrong  
(D) **Both I and II are correct**
5. Pseudomonas putida a genetically engineered bacterium was invented by  
(A) Dr. Ian Wilmut  
(B) Dr. Korana  
(C) Dr. Chandrasekar  
(D) **Dr. Ananda Mohan Chakraborty**
6. Pick out the wrong statement/statements in the following:  
(i) Organisms which are able to synthesize their own food are called autotrophs  
(ii) Organisms which are unable to synthesize their own food are called heterotrophs

- (iii) Organisms which are unable to synthesize their own food are called autotrophs
- (iv) Organisms which are able to prepare their own food are called heterotrophs

(A) (ii) and (iv)

(B) (i) and (ii)

(C) (i) and (iii)

**(D) (iii) and (iv)**

7. What is the genome of AIDS virus made up of?

(A) DNA

**(B) RNA**

(C) Chromosome

(D) Gene

8. Which authority conducts the Local Bodies Elections?

**(A) State Election Commission**

(B) Central Election Commission

(C) District Election Board

(D) Observers

9. During the period of which Indian Prime Minister was there hung parliament?

(A) Jawaharlal Nehru

(B) Indira Gandhi

**(C) I.K. Gujral**

(D) Rajiv Gandhi

10. The period of Tenth Five Year Plan is

**(A) 2002 – 2007**

(B) 2007 – 2012

(C) 1997 – 2002

(D) 1992 – 1997

11. Choose the answer:

\_\_\_\_\_ Article of the constitution prohibits the state from arbitrarily arrest any person

**(A) Article 22**

(B) Article 23

(C) Article 24

(D) Article 25

12. In which part of the constitution of India is dealt with Fundamental rights?

(A) Part II

**(B) Part III**

(C) Part I

(D) Part IV

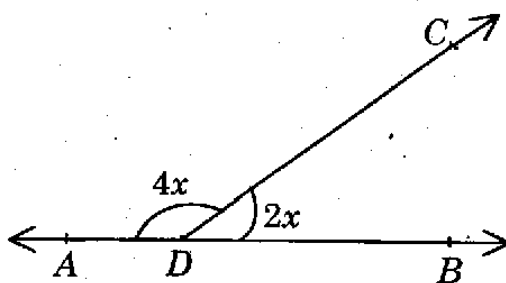
13. 'Glimpses of World History' was written by

- (A) Mahatma Gandhi
- (B) Indira Gandhi
- (C) Jawaharlal Nehru**
- (D) Rajiv Gandhi

14. Forty – second Amendment Act came into force in the year

- (A) 1947
- (B) 1976**
- (C) 1967
- (D) 1958

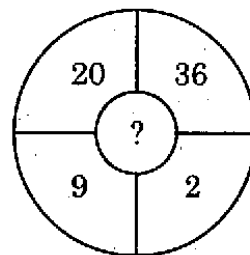
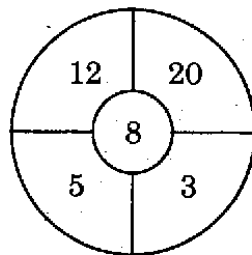
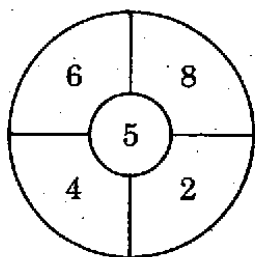
15. From the fig find the value of 'x'



- (A)  $30^\circ$**
  - (B)  $60^\circ$
  - (C)  $90^\circ$
  - (D)  $45^\circ$
16. Find the height of a parallelogram whose area is  $300 \text{ cm}^2$  and base 15 cm is
- (A) 10 cm
  - (B) 15 cm
  - (C) 20 cm**
  - (D) 30 cm
17. Ram is 7 times as old as his daughter Nanthini. After 5 years he will be 5 times as old as his daughter. What are their present ages?
- (A) 5, 35
  - (B) 6, 42
  - (C) 9, 63
  - (D) 10, 70**
18. If  $\frac{a}{b} = \frac{4}{3}$  then the value of  $\frac{6a+4b}{6a-5b}$  is
- (A) -1
  - (B) 3
  - (C) 4**

(D) 5

19. Find the missing number in the place ‘?’



(A) 10

(B) 11

(C) 13

**(D) 14**

20. Simplify  $\sqrt{214 + \sqrt{112 + \sqrt{74 + \sqrt{49}}}}$

**(A) 15**

(B) 18

(C) 25

(D) 17

21. Divide Rs. 700 among A, B and C so that 2 times more than to B and B gets 2 times to C. How much of amount they are getting?

(A) Rs. 100, Rs. 200 and Rs. 400

(B) Rs. 200, Rs. 300 and Rs. 200

(C) Rs. 300, Rs. 200 and Rs. 200

**(D) Rs. 400, Rs. 200 and Rs. 100**

22. A cone, hemisphere and cylinder have equal bases. If the heights of the cone and the cylinder are equal and are same as the common radius then find their respective volumes

(A) 2 : 3 : 4

**(B) 1 : 2 : 3**

(C) 2 : 1 : 3

(D) 3 : 2 : 5

23. Using identities  $x - y = -6$  ;  $xy = 4$ , Find the value of  $x^3 - y^3$

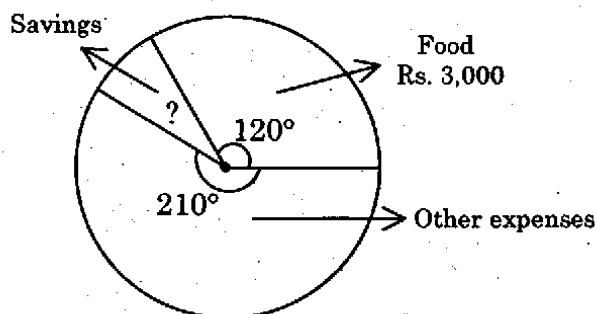
**(A) - 288**

(B) - 388

(C) - 268

(D) - 278

24. Two taps can fill a tank in 30 minutes and 40 minutes. Another tap can empty it in 24 min. If the tank is empty and all the taps are kept open, in how much time the tank will be filled
- (A)  $1\frac{1}{2}$  hours  
(B) Two hours  
**(C) One hour**  
(D)  $2\frac{1}{2}$  hours
25. The radius of a wheel is 1.75. how many revolutions will it make in travelling 11 km?
- (A) 10  
(B) 100  
**(C) 1000**  
(D) 10000
26. Monthly expenditure of a person is shown in figure. Find the amount he has in his savings.



- (A) Rs. 800  
(B) Rs. 900  
(C) R. 1,000  
**(D) Rs. 750**
27. When was the uniform pattern of education policy introduced in our country?
- (A) 1965  
**(B) 1968**  
(C) 1970  
(D) 1971
28. FERA is \_\_\_\_\_ Exchange Regulation Act
- (A) Foreign**  
(B) Forest  
(C) Fiscal  
(D) Finance
29. The first five year plan of India was launched in
- (A) 1947

**(B) 1951**

(C) 1956

(D) 1961

30. Choose the correct answer :

I. Nimbus clouds are vertical clouds

II. Nimbus clouds are high clouds

III. Nimbus clouds are low clouds

IV. Nimbus clouds are cotton – like clouds

**(A) I only**

(B) II only

(C) III only

(D) III and IV

31. Unequal distribution of the rate of growth of population due to two reasons

(A) Nature of terrain and low infant mortality

(B) High infant mortality and climate

**(C) Nature of terrain and climate**

(D) Employment opportunity, nutritious food

32. Which statement is correct?

I. Eutrophication means natural nutrient enrichment of streams and lakes

II. Water pollution mainly affects the water based eco – system

III. The unwanted sound cannot damage physiological psychological health

(A) I and III

(B) II and III

**(C) I and II**

(D) III only

33. The poet known as the “Parrot of India” was

(A) Al Beruni

(B) Kaiqubad

**(C) Amirkushrau**

(D) Balban

34. Shivaji was born at

(A) Satara

(B) Bijapur

**(C) Shivner**

(D) Poona

35. Language is the means of

(A) Transport

(B) Irrigation

**(C) Communication**

(D) Spirituality

36. Which one of the following is correctly matched?

- I. Kudavola system - Cheras
- II. Variya perumakkal - Pandyas
- III. Varipothagam - Cholas
- IV. Boomi puthras - Kalapiras

(A) I

(B) II

**(C) III**

(D) IV

37. Which one of the following is correctly matched?

- (A) Ettayapuram - Collector Ash
- (B) Jallian Walah Bagh Tragedy - Hunter Committee
- (C) Swaraj party - C.R. Das, Motilal Nehru**
- (D) Prohibition - V.O. Chidambaranar

38. Which British Commander captured the place Nerkattum Seval?

- (A) Colonel Heron
- (B) Colonel Campel**
- (C) Jackson Durai
- (D) Pulithdevar

39. The First Indian Governor on Independent India was

- (A) Lord Mountbatten
- (B) Lord Rippon
- (C) Rajagopalachari**
- (D) Lord canning

40. Rabindranath Tagore renounced his Knighthood in protest against \_\_\_\_\_ incident

- (A) The Jallian Walla Bagh Massacre**
- (B) Rowlat Act
- (C) Chauri Chaura incident
- (D) Dandhi March

41. Choose the incorrect pair

- (A) Bayern Munich - Football
- (B) Missy Franklin - Swimming
- (C) Sebastian Vettel - Tennis
- (D) Dale Steyn - Hockey**

42. Match the following

- (a) David Wilkie 1. Dance
- (b) Padma Subramaniam 2. Music
- (c) Abdul Walid Khan 3. Sculpture

(d) Auguste Rodin

4. Painting

	(a)	(b)	(c)	(d)
(A)	2	1	3	4
(B)	2	1	4	3
(C)	4	1	2	3
(D)	4	2	3	1

43. Match the following.

- |                 |                      |
|-----------------|----------------------|
| (a) Afghanistan | 1. National Congress |
| (b) Argentina   | 2. National Assembly |
| (c) Zimbabwe    | 3. Parliament        |
| (d) Singapore   | 4. House of Assembly |

	(a)	(b)	(c)	(d)
(A)	2	1	3	4
(B)	4	1	3	2
(C)	4	3	2	1
(D)	2	1	4	3

44. Highest polling percentage of 16<sup>th</sup> Lok Sabha election in Tamil Nadu constituency is

- (A) Madurai  
(B) Tiruvallur  
(C) **Dharmapuri**  
(D) Arakkonam

45. Doordharshan provides free-to-air DTH service as

- I. Ku – band  
II. DD direct +  
III. S band  
IV. K band

(A) I only

(B) **I and II only**

(C) III only

(D) I and IV only

46. Which country does Crimea belongs to?

- (A) Georgia  
(B) Belarus  
(C) **Russia**  
(D) Latvia

47. National sports for Indonesia is

- (A) Chess



- (B) Hockey
- (C) Volleyball

**(D) Badminton**

48. Choose the right answer :

Which of the four metropolitan cities connecting the six lanes super highways?

- (A) Chennai, Delhi, Kolkata and Nagpur
- (B) Chennai, Delhi, Nagpur and Kochi
- (C) Mumbai, Delhi, Chennai and Kochi

**(D) Chennai, Mumbai, Delhi and Kolkata**

49. Which lake is located in the eastern part of Great lakes?

- (A) Lake Superior
- (B) Lake Michigan

**(C) Lake Ontario**

- (D) Lake Huron

50. Match the following :

- |              |                         |
|--------------|-------------------------|
| (a) Force    | 1. Watt                 |
| (b) Momentum | 2. Joule                |
| (c) Power    | 3. Kg.m.s <sup>-1</sup> |
| (d) Energy   | 4. Newton               |

- |            | (a)      | (b)      | (c)      | (d)      |
|------------|----------|----------|----------|----------|
| (A)        | 4        | 1        | 2        | 3        |
| (B)        | 3        | 2        | 1        | 4        |
| (C)        | 3        | 1        | 2        | 4        |
| <b>(D)</b> | <b>4</b> | <b>3</b> | <b>1</b> | <b>2</b> |

51. Choose the correct one :

If kerosene, water and mercury is taken in a same glass tumbler, arrange the position of them from the top to the bottom of the glass tumbler.

- (A) Mercury, Kerosene, Water

**(B) Kerosene, Water, Mercury**

- (C) Water, Mercury, Kerosene

- (D) Kerosene, Mercury, Water

52. The percentage of Gold in 22 Carat is

**(A) 91.67 %**

- (B) 75 %

- (C) 67.91 %

- (D) 96.17 %

53. Find out the calcium compound found on bones and teeth

- (A) Calcium Carbonate

**(B) Calcium Phosphate**

- (C) Calcium Chloride

(D) Calcium Sulphate

54. Among the following which one is not an Insecticide?

(A) DDT

(B) BHC

(C) Zinc phosphide

**(D) Zinc sulphide**

55. Identify the incorrect pair :

I. Albumin - Water balance

II. Globulin - Immunity

III. Fibrinogen - Blood clotting

IV. Plasma - Solid component

(A) I

(B) II

(C) III

**(D) IV**

56. Which among the following food chain is an example for Grassland ecosystem?

(A) Grass → Deer → Fox → Tiger

**(B) Grass → Grasshopper → Frog → Snake → Eagle**

(C) Grass → Frog → Snake → Elephant

(D) Grass → Cattle → Lion

57. Which gas is released by the refrigerator?

(A) CH<sub>4</sub>

(B) Cl

(C) H<sub>2</sub>

**(D) CFC**

58. The Governor is appointed by

(A) Judge

(B) Prime Minister

(C) Chief Minister

**(D) President**

59. How long can a money bill be delayed by the Rajya Sabha?

(A) Two months

(B) Six weeks

(C) 30 days

**(D) 14 days**

60. Which article permits Separate constitution for the state of Jammu – Kashmir?

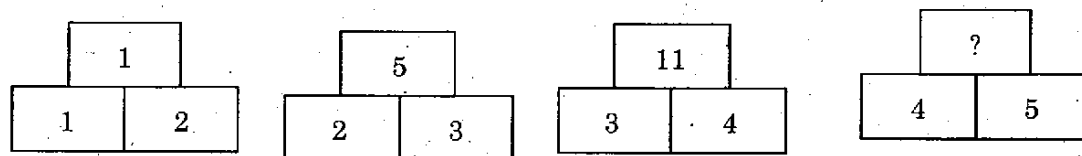
**(A) Article 370**

(B) Article 390

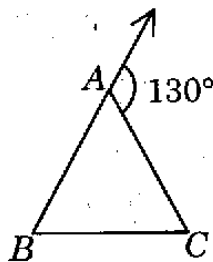
(C) Article 161

(D) Article 356

61. Arrange the Prime Ministers of India in Chronological of their term in office
- I. Thiru. Jawaharlal Nehru
  - II. Tmt. Indira Gandhi
  - III. Thiru. Morarji Desai
  - IV. Thiru. Lal Bahadur Shastri
- (A) I, IV, II, III**  
(B) I, II, III, IV  
(C) IV, I, III, II  
(D) II, III, IV, I
62. The word citizen is derived from
- (A) Greek  
**(B) Latin**  
(C) Spanish  
(D) Urdu
63. The Multi – Functionary at the district level is
- (A) District Health Officer  
(B) District Labour Officer  
(C) Tahsildar  
**(D) District collector**
64. Consider the following statements :
- Assertion (A) : Governor can promulgate ordinance when the state legislative is not in session under Article 213
- Reason (R) : These ordinances must be approved by the legislative within six months
- Select your answer according to the coding scheme given below :
- (A) Both (A) and (R) are false  
(B) (A) is false and (R) is true  
(C) (A) is true and (R) is false  
**(D) Both (A) and (R) are true**
65. Usually the population of a Corporation is
- (A) 5 lakhs  
(B) 7 lakhs  
(C) 8 lakhs  
**(D) 10 lakhs**
66. Find the missing number in the place “?”



- (A) 18  
**(B) 19**  
(C) 20  
(D) 21
67. Number of prime numbers between 20 and 30  
(A) 1  
**(B) 2**  
(C) 3  
(D) 4
68. If the area of  $\Delta ABC$  is 68 sq. units and the vertices are A (6,7), B (-4,1) and C (a,-9) taken in order. Find the value of  $a$   
(A) -2  
(B) 3  
(C) 5  
**(D) 2**
69. If the mean of  $x$ ,  $x+2$ ,  $x+6$ ,  $x+8$  is 20 then find the value of  $x$   
(A) 32  
**(B) 16**  
(C) 8  
(D) 4
70. By selling a car for Rs. 1,40,000 a man suffered a loss of 20 %. What was the cost price of the car?  
(A) Rs. 1,50,000  
(B) Rs. 1,25,000  
(C) Rs. 2,00,000  
**(D) Rs. 1,75,000**
71. In the given figure, angle B : angle C = 2 : 3. Find angle B



- (A)  $120^0$   
(B)  **$52^0$**   
(C)  $78^0$   
(D)  $130^0$
72. Find the point of intersection of the straight line  $9x - y - 2 = 0$  and  $2x + y - 9 = 0$   
(A) (-1,7)  
(B) (7,1)  
(C) **(1,7)**  
(D) (-1,-7)
73. The cost of a dining table is Rs. 8,400. A wants to buy it in 10 installments. His E.M.I is Rs. 875. Find the rate of interest.  
(A) 3 %  
(B) **5 %**  
(C) 8 %  
(D) 10 %
74. If  $(x + m)(x + n) = x^2 + 6x + 5$ . Find  $m^2 + n^2$   
(A) 25  
(B) **26**  
(C) 27  
(D) 28
75. Choose the best answer :  
Two numbers differ by 5. If there product is 336, then the sum of two numbers is  
(A) 21  
(B) 28  
(C) **37**  
(D) 51
76. Find the missing number

	3	3	
2	35	91	4
2	9	?	4
	1	5	

(A) 136

(B) 156

(C) 176

**(D) 189**

77. Find the simple interest and the amount due on Rs. 6,750 for 219 days at 10 % per annum

(A) 205

(B) 305

**(C) 405**

(D) 415

78. Three numbers are in the ratio 3:4:5 and their L.C.M is 2400. Their H.C.F is

**(A) 40**

(B) 80

(C) 120

(D) 200

79. Match List I with List II correctly and select your answers using the codes given below

List I

(a) Rice production

(b) Wheat production

(c) Jute production

(d) Coffee plants

List II

1. Punjab and Haryana

2. Coorg and Nilgiris

3. Uttar Pradesh and West Bengal

4. West Bengal and Assam

(a) (b) (c) (d)

(A) 1 2 4 3

(B) 2 1 4 3

(C) 1 3 4 2

**(D) 3 1 4 2**

80. Registration of Partnership is

(A) Compulsory

**(B) Optional**

- (C) Not necessary  
(D) Not compulsory

81. The Hindustan Shipyard is located at

- (A) Kochi  
(B) Kolkata  
(C) Mumbai

**(D) Visakapatnam**

82. Match :

- |                          |                           |
|--------------------------|---------------------------|
| (a) Primary Activities   | 1. 'Pink' collar workers  |
| (b) Secondary Activities | 2. 'Red' collar workers   |
| (c) Tertiary Activities  | 3. 'White' collar workers |
| (d) Quarternary          | 4. 'Blue' collar workers  |

	(a)	(b)	(c)	(d)
(A)	2	3	4	1
(B)	1	2	3	4
<b>(C)</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>3</b>
(D)	4	3	2	1

83. The last king of the Mauryan Dynasty was

- (A) Pushyamitra  
**(B) Brihadratha**  
(C) Ajathasatru  
(D) Bimbisara

84. Match the following :

- |                  |              |
|------------------|--------------|
| (a) Mohenjadarro | 1. Gujarat   |
| (b) Kalibangan   | 2. Punjab    |
| (c) Lothal       | 3. Rajasthan |
| (d) Harappa      | 4. Sind      |

	(a)	(b)	(c)	(d)
(A)	3	1	2	4
<b>(B)</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>2</b>
(C)	1	2	4	3
(D)	2	4	3	1

85. Which king introduced "Chain of Justice" in the field of Justice?

- (A) Jahangir**  
(B) Akbar  
(C) Asoka  
(D) Shahjahan

86. According to Quran "Mamaluk" means

- I. The poor

- II. The slave
- III. The rich
- IV. The king

(A) I

**(B) II**

(C) III

(D) IV

87. The Vijayanagar Empire founded in the year

(A) 1337 A.D

**(B) 1336 A.D**

(C) 1338 A.D

(D) 1335 A.D

88. Match the following List I with List II and choose the correct answer from the codes given below :

List I				List II			
(a) Magna Carta of India				1. 1883			
(b) Vernacular Press Act				2. 1885			
(c) Ilbert Bill				3. 1878			
(d) Indian National Congress				4. 1858			
(a)	(b)	(c)	(d)				
(A) 3	4	1	2				
<b>(B) 4</b>	<b>3</b>	<b>1</b>	<b>2</b>				
(C) 2	3	1	4				
(D) 1	4	3	2				

89. Select False statement :

- I. English language played an important role in Indian National Movement
- II. The Social Reformers had played no part in arising the National Movement
- III. The policy of 'Drain of Wealth' by British leads to National Movement
- IV. Lyton's Delhi Darbar and Vernacular Press Act leads to National Movement

(A) I and II False

(B) III and IV False

**(C) II alone False**

(D) I and III False

90. On which date India celebrates National Technology day?

(A) 11<sup>th</sup> April

(B) 12<sup>th</sup> May

**(C) 11<sup>th</sup> May**

(D) 12<sup>th</sup> April

91. Which RIA centers of BRIT conduct around 6000 radioimmunoassays annually?

- I. Bengaluru



- II. Calcutta  
III. Mumbai  
IV. Dibrugarh  
(A) I and III  
(B) II and III  
**(C) I only**  
(D) I and IV only
92. Indira Gandhi price for 2013 was awarded to  
(A) Alice Munro  
(B) C.N.R. Rao  
(C) Sachin Tendulkar  
**(D) Angela Merkel**
93. Which is the first state introduced E – GPF facility?  
(A) Assam  
**(B) Arunachal Pradesh**  
(C) Karnataka  
(D) West Bengal
94. “Unbreakable” – is an autobiography by whom?  
(A) M.C. Cherian  
(B) L.C. Kurrian  
**(C) M.C. Mary Kom**  
(D) D.C. Shervani
95. Which country unveiled the World Longest Aircraft Air lander (HAV 302)?  
(A) Russia  
(B) Israel  
**(C) Britain**  
(D) United states of America
96. Who is chosen for Avvaiyar award of Tamil Nadu Government for the year 2014?  
**(A) Dr. K. Mathangi Rama Krishnan**  
(B) Kiran Bedi  
(C) Arunthathi Roy  
(D) Dr. Daisy Christina
97. Match List I with List II and select the correct answer using the code given below:

List I

List II

- |                                      |           |
|--------------------------------------|-----------|
| (a) World AIDS day                   | 1. Dec 14 |
| (b) World Day of Handicapped         | 2. Dec 10 |
| (c) Armed Forces Flag Day            | 3. Dec 01 |
| (d) National Energy Conservation Day | 4. Dec 03 |
| (a) (b) (c) (d)                      |           |

(A) 2	1	3	4
<b>(B) 3</b>	<b>4</b>	<b>2</b>	<b>1</b>
(C) 4	2	1	3
(D) 1	3	4	2

98. Match the international organization and the year of foundation and choose the correct answer from the codes given below :

(a) UNO	1. 1948		
(b) UNESCO	2. 1995		
(c) WHO	3. 1945		
(d) WTO	4. 1946		
(a)	(b)	(c)	(d)
(A) 4	1	3	2
<b>(B) 3</b>	<b>4</b>	<b>1</b>	<b>2</b>
(C) 2	1	3	4
(D) 4	1	2	3

99. What is Methylation?

- I. A natural process that chemically modifies DNA
  - II. A physically modified process that converts higher energy to lower energy
  - III. Used as a biological clock
  - IV. Used in anesthesia
- (A) I only  
**(B) I and III only**  
(C) II only  
(D) II and IV only

100. New Pope Jorge Mario Bergoglio belongs to which country?

- (A) Argentina**  
(B) Germany  
(C) Holland  
(D) Australia