

# General Studies - 1998 (Preliminary Examination)

**Time Allowed : Two Hours Maximum Marks : 150**

**1.** The water pollution in river is measured by the dissolved amount of

(a) Chlorine (b) Ozone (c) Nitrogen (d) Oxygen

**2.** Some time back, the Government of India, decided to delicense 'white goods' industry. 'White goods' include

(a) stainless steel and aluminium utensils

(b) milk and milk products

(c) items purchased for conspicuous consumption

(d) soaps, detergents and other mass consumption goods

**3.** Examine the following three statements

1. Processed meat is a perishable food.

2. All perishable foods are packed in sealed tins.

3. Sealed tins sometimes do not contain processed meat.

Which one of the following inferences can be drawn from the above statements ?

(a) Sealed tins always contain perishable food

(b) Processed meat is sometimes not packed in sealed tins.

(c) Processed meat is always packed in sealed tins. (d) Non-perishable foods are never packed in sealed tins.

**4.** What is the correct sequence of the following Indian states in descending order of their length of surface roads per 100 km<sup>2</sup> of their area?

1. Haryana 2. Maharashtra 3. Punjab 4. Tamil Nadu

(a) 4, 3, 2, 1 (b) 4, 3, 1, 2 (c) 3, 4, 1, 2 (d) 3, 4, 2, 1

**5.** Match List I with List II and select the correct answer

**List I List II**

A. Potassium bromide 1. Fertiliser

B. Potassium nitrate 2. Photography

C. Potassium sulphate 3. Bakery

D. Monopotassium tartarate 4. Gunpowder

**A&sp; B C D A B C D**

(a) 2 4 1 3 (b) 2 4 3 1

(c) 4 2 3 1 (d) 4 2 1 3

**6.** The four railway junctions shown by numerals 1, 2, 3, 4 on the rough outline map of Gujarat are respectively

(a) Patanpur, Mahesana, Ahmedabad and Vadodara

(b) Mahesana, Surendranagar, Rajkot and Junagarh

(c) Palanpur, Kanda, Bhuj and Okla

(d) Ahmedabad, Vadodara, Bhavnagar and Broach



**7.** The damage to the Spektr Module of the Russian Space Station Mir was due to

(a) collision with a Soyuz cargo ship

(b) faulty material design of the Spektr Module

(c) explosion inside the space station

(d) collision with an asteroid

**8.** The misery index is the sum of a country's unemployment and inflation rate. The higher the index, the more miserable a is the country to live in.

The figure given below is the Misery Index for various countries in Europe



Which of the following conclusions can be drawn from the misery index given above?

1. Britain is the most miserable country to live in.
2. The inflation rate in Spain is less than than in Belgium and Britain.
3. Italy and France seem to have almost identical unemployment rate.
4. The higher the misery index the higher the inflation rate.

Select the correct answer using the codes given below

- (a) 1 alone (b) 2 and 3  
(c) 1, 2, 3 and 4 (d) None

**9.** The meeting of G-15 countries held in Malayasia in 1997 was attended by

- (a) 14 member countries  
(b) 15 member countries  
(c) 16 member countries  
(d) 17 member countries

**10.** Olympics 2004 is to be held in

- (a) Johannesburg (b) Capetown (c) Rome (d) Sydney

**11.** Which one of the following elements is essential for the construction of nuclear reactors?

- (a) Cobalt (b) Nickel (c) Zirconium (d) Tungsten

**12.** The educated middle class in India

- (a) opposed the revolt of 1857
- (b) supported the revolt of 1857
- (c) remained neutral to the revolt of 1857
- (d) fought against native rulers

**13.** Which one of the following regions of the world supplies the maximum of our imported commodities (in terms of rupee value)?

- (a) Africa (b) America (c) Asia and Oceania (d) Europe

**14.** The currency of the proposed European Monetary Union will be

- (a) Dollar (b) Euro (c) Guilder (d) Mark

**15.** Which one of the following was the venue for the preliminary talks between the Sri Lankan Government and representatives of Tamil United Liberation Front and other militant groups ?

- (a) New Delhi (b) Colombo (c) Thimpu (d) Madras

**16.** Consider the following statements regarding asteroids

- 1. Asteroids are rocky debris of varying sizes orbiting the Sun.
- 2. Most of the asteroids are small but some have diameter as large as 1000 km
- 3. The orbit of asteroids lies between orbits of Jupiter and Saturn.

Of these statements

- (a) 1, 2 and 3 are correct (b) 2 and 3 are correct
- (c) 1 and 2 are correct (d) 1 and 3 are correct

**17.** 'MERCOSUR' consists of group of countries of

- (a) Africa (b) Asia (c) Latin America (d) South East Asia

**18.** Which one of the following countries has replaced Italy as the major importer of bauxite from India ?

- (a) Canada (b) Greece (c) Ukraine (d) United Arab Emirates

**19.** Lord Mountbatten came to India as Viceroy along with specific instruction to

- (a) balkanize the Indian sub-continent
- (b) keep India united if possible
- (c) accept Jinnah's demand for Pakistan

(d) persuade the Congress to accept partition

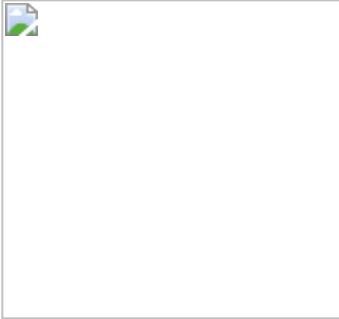
**20.** Which one of the following is the correct sequence of the states (labeled 1, 2, 3 and 4) of India shown on the map in descending order in terms of their available ground water-resources for irrigation?

(a) 3, 4, 1, 2

(b) 3, 4, 2, 1

(c) 4, 3, 1, 2

(d) 4, 3, 2, 1



**21.** Consider the following statements

The price of any currency in international market is decided by the

1. World Bank.
2. demand for goods/services provided by the country concerned.
3. stability of the government of the concerned country.
4. economic potential of the country in question.

Of these statements

(a) 1, 2, 3 and 4 are correct (b) 2 and 3 are correct

(c) 3 and 4 are correct (d) 1 and 4 are correct

**22.** Consider the following statements

Coke is one of the materials of the charge added to blast furnace for the production of steel/iron. Its function is to

1. act as a reducing agent.
2. remove silica associated with the iron ore
3. function as fuel, to supply heat.
4. act as an oxidizing agent.

Of these statements

- (a) 1 and 2 are correct (b) 2 and 4 are correct  
(c) 1 and 3 are correct (d) 3 and 4 are correct

**23.** A consumer is said to be in equilibrium, if

- (a) he is able to fulfill his need with a given level of income  
(b) he is able to live in full comforts with a given level of income  
(c) he can fulfill his needs without consumption of certain items  
(d) he is able to locate new sources of income

**24.** Production of Rice and Wheat

(In millions of Tonnes)

Year Rice Wheat Percentage of Wheat to Rice

1950-51	20.58	6.46	31.4
1960-61	34.58	11.00	31.8
1970-71	42.22	23.83	56.4
1980-81	53.63	36.31	67.7
1990-91	74.29	55.14	74.2
1994-95	81.81	65.77	80.4
1995-96	79.62	62.62	78.6

The above table indicates the performance in India in rice and wheat production from 1950-51 to 1995-96. Which of the following conclusions arrived at from the above table would be valid?

1. Record production of rice as well as wheat has been in 1994-95
2. The ratio of wheat to rice production seems to have steadily increased over 16 years
3. Wheat has not been popular among the Indian population before 1980.
4. India became self-sufficient in rice and wheat only after 1990.

Select the correct answer using the codes given below

- (a) 1 and 2 (b) 1, 2, 3 and 4  
(c) 3 and 4 (d) None

**25.** Among the Indian states shown labeled 1, 2, 3 and 4 in the rough outline map given, the correct sequence of descending order of percent of

scheduled tribe population to their total population is :

(a) 1, 3, 2, 4 (b) 3, 1, 2, 4 (c) 3, 1, 4, 2 (d) 1, 3, 4, 2



**26.** Which one of the following sets of states stands to benefit the most from the Konkan Railway?

- (a) Goa, Karnataka, Maharashtra, Kerala
- (b) Madhya Pradesh, Maharashtra, Tamil Nadu, Kerala
- (c) Tamil Nadu, Kerala, Goa, Maharashtra
- (d) Gujarat, Maharashtra, Goa, Tamil Nadu

**27.** The supply-side economics lays greater emphasis on the point of view of

- (a) producer (b) global economy (c) consumer (d) middle-man

**28.** Which one of the following languages belongs to the Austric group ?

- (a) Marathi (b) Ladakhi (c) Khasi (d) Tamil

**29.** Which one of the following metals does not form amalgams?

- (a) Zinc (b) Copper (c) Magnesium (d) Iron

**30.** Indonesian forest fire in 1997 was caused by

- (a) greenhouse effect (b) depletion of ozone layer
- (c) El Niño effect (d) None of the above

**31.** LMNOP, is semicircle with center at R and diameter LP, LSR and RQP are also semicircles with centers at T and U and diameters LR = RP =  $\frac{1}{2}$  LP.

The ratio of perimeters of LMNOP and LSRQP is

- (a) 0.75: 1
- (b) 1:1
- (c) 1 : 0.75

(d) 1.25: 1



**32.** Match the following research institutes A, B, C and D with their respective location labelled as 1 to 6 in the given rough outline map :



Select the correct answer using the codes given below

- A. Central Drug Research Institute
- B. National Atlas and Thematic Mapping Organisation
- C. National Institute of Ocean Technology
- D. Temperate Forest Research Centre

**A B C D**

- (a) 4 3 2 6
- (b) 4 5 1 6
- (c) 2 3 4 5
- (d) 1 6 2 3



**33.** Bharat Ratna was awarded in 1997 to

- (a) Dr. Homi Bhabha (Posthumous)
- (b) Former President R. Venkataraman
- (c) Satyajit Ray (Posthumous)
- (d) Dr. Abdul Kalam

**34.** Which of the following statements are true about the Indian born woman astronaut Kalpana Chawla ?

- 1. She was born in Karnal.
- 2. She flew on board the shuttle flight STS - 87.
- 3. She was trained at the Kennedy Space Centre.
- 4. She did a space-walk to retrieve the Spartan Satellite.

Select the correct answer using the codes given below

- (a) 1 and 2
- (b) 2 and 3
- (c) 1, 2 and 3
- (d) 1, 2 and 4

**35.** A man purchases two clocks A and B at a total cost of Rs. 650. He sells A with 20% profit and B at a loss of 25% and gets the same selling price for both the clocks. What are the purchasing price of A and B respectively

- (a) Rs. 225 ; Rs. 425
- (b) Rs. 250 ; Rs. 400
- (c) Rs. 275 ; Rs. 375
- (d) Rs. 300 ; Rs. 350

**36.** A fuse is used in main electric supply as a safety device. Which one of the following statements about the fuse is correct ?

- (a) It is connected in parallel with the main switch
- (b) It is made mainly from silver alloys
- (c) It must have a low melting point
- (d) It must have a very high resistance

**Directions :-** The following fourteen items consist of two statements, one labelled as 'Assertion A' and the other labelled as 'Reason R'. You are to examine these two statements carefully and decide if the Assertion A and the Reason R are individually true and if so, whether the Reason is a correct explanation of the Assertion. Select the your answers to these items using the codes given below and mark your answer sheet accordingly.

**Codes:**

- (a) Both A and R are true and R is the correct explanation of A
- (b) Both A and R are true but R is NOT the correct explanation of A
- (c) A is true but R is false
- (d) A is false but R is true

**37. Assertion A :** The Gandhara School of Art bears the mark of Hellenistic influence.

**Reason R :** Hinayana form was influenced by that art.

**38. Assertion A :** Formic acid is a stronger acid than acetic acid.

**Reason R :** Formic acid is an organic acid.

**39. Assertion A :** At first the Turkish administration in India was essentially military.

**Reason R :** The country was parcelled out as 'Iqtas' among leading military leaders.

**40. Assertion A :** According to Asoka's edicts social harmony among the people was more important than religious devotion.

**Reason R :** He spread ideas of equity instead of promotion of religion.

**41. Assertion A :** The temperature of a metal wire rises when an electric current is passed through it.

**Reason R :** Collision of metal atoms with each other releases heat energy.

**42. Assertion A :** The Khilafat movement did bring the urban Muslims into the fold of the National Movement.

**Reason R :** There was a predominant element of anti-imperialism in both the National and Khilafat Movement.

**43. Assertion A :** Phenyl is used as a household germicide. Phenyl is a phenol derivative and phenol is an effective germicide.

**Reason R :** Phenyl is a phenol derivative and phenol is an effective germicide

**44. Assertion A :** Partition of Bengal in 1905 brought to an end the Moderates' role in the Indian freedom movement.

**Reason R :** The Surat session of Indian National Congress separated the Extremists from the Moderates.

**45. Assertion A :** The first ever Bill to make primary education compulsory in India was rejected in 1911

**Reason R :** Discontent would have increased every cultivator could read

**46. Assertion A :** Sodium metal is stored under kerosene

**Reason R:** Metallic sodium melts when exposed to air

**47. Assertion A :** The Congress rejected the Cripps proposals

**Reason R :** The Cripps Mission consisted solely of whites

**48. Assertion A :** The United States of America has threatened to ask the World Trade Organisation (WTO) to apply sanctions against the developing countries for the non-observance of I.L.O. conventions

**Reason R :** The United States of America itself has adopted and implemented those I.L.O. conventions.

**49. Assertion A :** During the reign of Shahjahan, Dara Shikoh was sent on expedition to Balkha, Badakhshan and Qandahar.

**Reason R :** The expedition sent by Shahjahan to the Middle-East was a marvellous success

**50. Assertion A :** Gandhi stopped the Non-Co-operation Movement in 1922.

**Reason R :** Violence at Chauri Chaura led him to stop the movement.

**51.** The correct sequence of different layers of the atmosphere from the surface of the Earth upwards is

- (a) Troposphere, Stratosphere, Ionosphere, Mesosphere
- (b) Stratosphere, Troposphere, Ionosphere, Mesosphere
- (c) Troposphere, Stratosphere, Mesosphere, Ionosphere
- (d) Stratosphere, Troposphere, Mesosphere, Ionosphere

**52.** If 15 pumps of equal capacity can fill a tank in 7 days, then how many extra pumps will be required to fill the tank in 5 days'?

- (a) 6
- (b) 7
- (c) 14
- (d) 21

**53.** Which of the following pairs are correctly matched'?

- 1. Lothal Ancient dockyard

- 2. Sarnath First Sermon of Buddha
  - 3. Rajgir Lion capital of Ashoka
  - 4. Nalanda Great seat of Buddhist learning
- Select the correct answer using the codes given below

- (a) 1, 2, 3 and 4
- (b) 3 and 4
- (c) 1, 2 and 4
- (d) 1 and 2

**54.** Which one of the following pairs of cities has recently been connected through a 6-lane express way ?

- (a) Ahmedabad : Vadodra
- (b) Dhaka : Chittagong
- (c) Islamabad : Lahore
- (d) Mumbai : Pune

**55.** Match List I with List II and select the correct answer

**List-I List II**

- A. Ringgit 1. Indonesia
- B. Baht 2. South Korea
- C. Rupiah 3. Thailand
- D. Won 4. Malaysia

**A B C D**

- (a) 1 3 4 2
- (b) 4 3 1 2
- (c) 1 2 4 3
- (d) 4 2 1 3

**56.** Consumption of fish is considered to be healthy when compared to flesh of other animals because fish contains

- (a) polyunsaturated fatty acids
- (b) saturated fatty acids
- (c) essential vitamins
- (d) more carbohydrates and proteins

**57.** Consider the following statements Ahadis were those troopers who

1. offered their services singly.
2. did not attach themselves to any chief.
3. has the emperor as their immediate colonel.
4. attached themselves to Mirzas.

Of these statements

- (a) 1, 3 and 4 are correct
- (b) 1, 2 and 3 are correct
- (c) 2 and 3 are correct
- (d) 1 and 4 are correct

**58.** Out of three annual examinations, each with a total of 500 marks, a student secured average marks of 45% and 55% in the first and second annual examinations. To have an overall average of 60%, how many marks does the student need to secure in the third annual examination ?

- (a) 450
- (b) 400
- (c) 350
- (d) 300

**59.** When the Indian Muslim League was inducted into the interim government in 1946, Liyaqat Ali Khan was assigned the portfolio of

- (a) Foreign affairs
- (b) Home
- (c) Finance
- (d) Defence

**60.** Which one of the following ancient Indian records is the earliest royal order to preserve food-grains to be utilised during the crises in the country ?

- (a) Sohgaura Copper-plate
- (b) Rummindei pillar-edict of Asoka
- (c) Prayaga-Prasasti
- (d) Mehrauli Pillar inscription of Chandra

**61.** According to Meadows(1972), if the present trends in world population industrialization, pollution, food production and resource depletion continue unchanged, the "Limits to Growth" on our planet will be reached in the next

- (a) 50 years
- (b) 100 years
- (c) 150 years
- (d) 200 years

**62.** Human Poverty Index was introduced in the Human Development Report of the year

(a) 1994 (b) 1995 (c) 1996 (d) 1997

**63.** Match List-I with List-II and select the correct answer

**List-I**(Disease) **List II** (Organism)

A. Malaria 1. Fungi

B. Poliomyelitis 2. Bacteria

C. Tuberculosis 3. Virus

D. Ringworm 4. Protozoan

**A B C D A B C D**

(a) 4 3 2 1 (b) 4 3 1 2

(b) 3 4 1 2 (c) 1 2 3 4

**64.** Consider the following

1. Tughlaquabad fort. 2. Lodi Garden

3. Qutab Minar. 4. Fatehpur Sikri.

The correct chronological order in which they were built is

(a) 3, 1, 4, 2 (b) 3, 1, 2, 4 (c) 1, 3, 2, 4 (d) 1, 3, 4, 2

**65.** Which one of the following satisfied the relationship Dda : aDD :: Rrb: ?

(a) D D A (b) R R R (c) b R R (d) B B r

**66.** The concept of Eight-fold path forms the theme of

(a) Dipavamsa (b) Divyavadana

(c) Mahaparinirubban Sutta (d) Dharma Chakara Pravartana Sutra .

**67.** The recent Land Mines Conference to sign the historic treaty was held in the Capital city of

(a) Canada (b) Japan (c) Sweden (d) Zimbabwe

**68.** Which of the following pairs are correctly matched

1. Dow Jones New York

2. Hang Seng Seoul

3. FTSE- 100 London

Select the correct answer using the codes given below

(a) 1, 2 and 3 (b) 2 and 3 (c) 1 and 2 (d) 1 and 3

**69.** The Indian National Congress agreed in 1947 to the partition of the country mainly because

- (a) the principle of two-Nation theory was then acceptable to them
- (b) it was imposed by the British Government and the Congress was helpless in this regard
- (c) they wanted to avoid large-scale communal riots
- (d) India would have otherwise lost the opportunity to attain freedom

**70.** Haemophilia is a genetic disorder which leads to

- (a) decrease in haemoglobin level (b) rheumatic heart disease
- (c) decrease in WBC (d) non-clotting of blood

**71.** Match List-I with List-II and select the correct answer

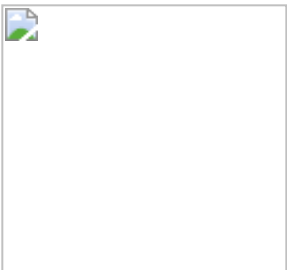
**List-I List-II**

- A. 1556 1. Battle of Haldi Ghati
- B. 1600 2. Nadir Shah's capture of Delhi
- C. 1686 3. Death of Shivaji
- D. 1739 4. Grant of Charter to East India Company
- 5. Accession of Akbar

**A B C D A B C D**

- (a) 3 4 2 1 (b) 5 4 3 2
- (c) 5 2 1 4 (d) 1 5 3 2

**72.** A square pond has 2 in sides and is 1 m deep. If it is to be enlarged, the depth remaining the same, into a circular pond with the diagonal of the square its diameter its shown in the fixture, then what would be the volume of earth to be removed ?



- (a)  $(2\pi - 4) \text{ m}^3$  (b)  $(4\pi - 4) \text{ m}^3$

(c)  $(4\pi - 2) \text{ m}^3$  (d)  $(2\pi - 2) \text{ m}^3$

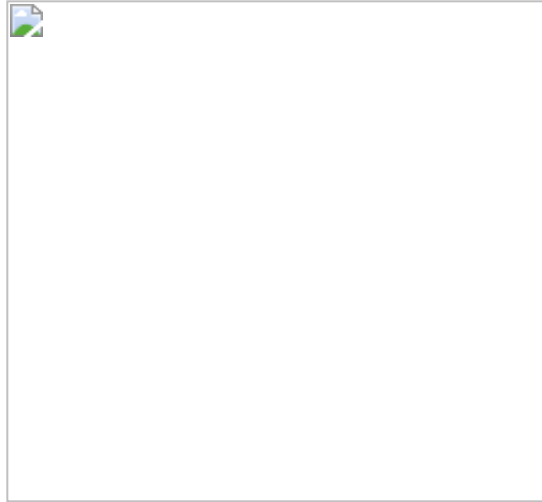
**73.** Match river labelled A, B, C and D on the given map with their names given in the list and select the correct answer

**List-I**

1. St. Lawrence
2. Orinoco
3. Mackenzie
4. Amazon
5. Yukon

**A B C D**

- (a) 4 3 2 1
- (b) 5 3 1 2
- (c) 5 4 1 3
- (d) 3 1 4 2



**74.** Consider the following statements about acetylene

1. It is used in welding industry.
2. It is a raw material for preparing plastics.
3. It is easily obtained by mixing silicon carbide and water.

Of these statements

- (a) 1 and 2 are correct (b) 1 and 3 are correct
- (c) 2 and 3 are correct (d) 1, 2 and 3 are correct

**75.** At the time of India's Independence, Mahatma Gandhi was

- (a) a member of Congress Working Committee (b) not a member of the Congress
- (c) the President of the Congress (d) the General Secretary of the Congress

**76.** A ball is dropped from the top of a high building with a constant acceleration of  $9.8 \text{ m/s}^2$ . What will be its velocity after 3 seconds'?

- (a)  $9.8 \text{ m/s}$  (b)  $19.6 \text{ m/s}$  (c)  $29.4 \text{ m/s}$  (d)  $39.2 \text{ m/s}$

**77.** The economist who was associated with the WTO draft document is

- (a) A. K. Sen (b) T. N. Srinivasan



(c) J. N. Bhagwati (d) Avinash Dixit

**78.** One local and another express train were proceeding in the same direction on parallel tracks at 29km/hour and 65 km/hour respectively. The driver of the former notices that it took exactly 16 seconds for the faster train to pass by him. What is the length of the faster train?

(a) 60 m (b) 120 m (c) 160 m (d) 240 m

**79.** In the given map, the shaded part represents Akbar's empire at a certain time : 'A' stands for an independent country and B' marks the site of a city. Which one of the following alternatives given all correct information



- (a) Akbar in 1557 : (A) Golkunda, (B) Lahore
- (b) Akbar in 1557 : (A) Khandesh (B) Multan
- (c) Akbar in 1605: (A) Gondwana, (B) Multan
- (d) Akbar in 1605 : (A) Gondwana, (B) Lahore

**80.** Estuaries possess distinct blooms of excessive growth of a pigmented dinoflagellates. These blooms are called

(a) red tides (b) sea tides (c) black tides (d) sea flowers

**81.** Consider the following climatic conditions (northern hemisphere) :

**Temperature Rainfall**

☞ C Cm.

J 3.9 4.7

F 4.4 5.7

M 8.3 8.2

**A** 14.4 9.2

**M**20.0 9.2

**J**23.3 17.7

**J**27.8 14.5

**b** 27.8 14.0

**S**22.3 12.7

**O**18.3 7.0

**N**12.2 5.0

**D** 6.7 3.5

These are most likely to be found in the natural regions of

- (a) China type (b) Equatorial type  
(c) Hot desert type (d) Monsoon type

**82.** A, B, C, D, E and F, not necessarily in that order are sitting on six chairs regularly placed around a round table. It is observed that A is between D and F, C is opposite D, and D and E are not on neighbouring chairs.

Which one of the following pairs must be sitting on neighbouring chairs ?

- (a) A and B (b) C and E (c) B and F (d) A and C

**83.** The number of economically active women (excluding students and those doing domestic duties in their homes) as a percentage of all women of working age (generally those aged 15-64 years) was the highest in 1996 in

- (a) USA (b) China (c) Russia (d) S. Korea

**84.** If in a certain code SAND is VDOG and BIRD is ELUG, then what is the code for LOVE

- (a) PRYG (b) ORTG (c) NPUH (d) ORYH

**85.** When there is noon at I.S.T. meridian people on another place of the Earth are taking their at 6 O'clock morning tea. The longitude of the place is

- (a)  $17^{\circ} 30'$  E (b)  $7^{\circ} 30'$  W (c)  $172^{\circ} 30'$  E (d)  $90^{\circ}$  W

**86.** Match List-I with List-II and select the correct answer

**List I List II**

(Special characteristic) (Name of planet)

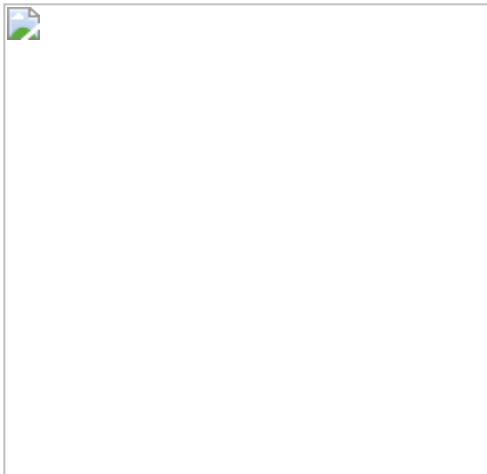
A. Smallest planet of the 1. Mercury solar system

- B. Largest planet of the 2. Venus solar system
- C. Planet second from the 3. Jupiter Sun in the solar system
- D. Planet nearest to the 4. Pluto Sun
- 5. Saturn

**A B C D A B C D**

- (a) 2 3 5 1 (b) 3 5 1 2
- (c) 4 1 2 3 (d) 4 3 2 1

**87.** The given map relates to :



- (a) Kaniska at the time of his death
- (b) Samudragupta after the close of his South Indian campaign
- (c) Asoka towards close of his reign
- (d) Empire of Thaneswar on the eve of Harsha's accession

**88.** In a family, a couple has a son and a daughter. The age of the father is three times that of his daughter and the age of the son is half of his mother. The wife is nine years younger to her husband and the brother is seven years older than his sister. What is the age of the mother'?

- (a) 40 years (b) 45 years (c) 50 years (d) 60 years

**89.** The missing fraction in the series given below is

$\frac{4}{9}, \frac{9}{20}, \dots, \frac{39}{86}$

- (a)  $\frac{17}{40}$  (b)  $\frac{19}{42}$  (c)  $\frac{20}{45}$  (d)  $\frac{29}{53}$

**90.** Which one of the following schedules of the Constitution of India contains provisions regarding anti-defection Act '1

(a) Second Schedule (b) Fifth Schedule (c) Eighth Schedule (d) Tenth Schedule

**91.** Which one of the following types of micro organisms is most widely used in industries ?

(a) Bacteria (b) Bacteria and Fungi

(c) Bacteria and algae (d) Bacteria, microalgae and fungi

**92.** Many of the Greeks, Kushanas and Shakas embraced Buddhism rather than Hinduism because

(a) Buddhism was in the ascendant at that time

(b) they had renounced the policy of war and violence

(c) caste-ridden Hinduism did not attract them

(d) Buddhism provided easier access to Indian society

**93.** There are 50 students admitted to a nursery class. Some students can speak only English and some can speak only Hindi. 10 students can speak both English and Hindi. If the number of students who can speak English is 21, then how many students can speak only Hindi, how many can speak only Hindi and how many can speak only English?

(a) 21, 11 and 29 respectively (b) 28, 18 and 22 respectively

(c) 37, 27 and 13 respectively (d) 39, 29 and 11 respectively

**94.** Match the names of outstanding Indian scientists given in List-I with area of their specialized work given in List-II and select the correct answer using the codes given below the lists

**List-I List II**

A. Dr. Raja Ramanna 1.Plant Chemistry

B. Dr. M. S. Swaminathan 2.Nuclear Physics

C. Prof U.R. Rao 3.Thermodynamics

D. Prof Meghnad Saha 4.Space Research

5.Agricultural sciences

**A B C D A B C D**

(a) 3 5 2 1 (b) 2 1 4 3

(c) 2 5 4 3 (d) 3 1 4 2

**95.** The satellites of which one of the following countries have helped in the preparation of a detailed and complete map of Antarctica?

(a) Canada (b) France (c) Russia (d) U.S.A.

**96.** The Indian parliamentary system is different from the British parliamentary system in that India has  
(a) both a real and a nominal executive (b) a system of collective responsibility  
(c) bicameral legislature (d) the system of judicial review

**97.** Match List-I with List-II and select the correct answer

**List-I List II**

- A. Fruit 1.Ovule
- B. Seed 2.Leaf
- C. Wood 3.Stem
- D. Starch 4.Ovary

**A B C D A B C D**

- (a) 2 1 3 4 (b) 4 1 3 2
- (c) 2 3 1 4 (d) 4 3 1 2

**98.** The member of Shivaji's Astha Pradhana who-looked after foreign affairs was  
(a) Peshwa (b) Sachiv (c) Pandit Rao (d) Sumant

**99.** PanchayatRajwasfirstintroducedinIndiainOctober,1959 in

- (a) Rajasthan (b) Tamil Nadu
- (c) Kerala (d) Karnataka

**100.** Some people in Manipur live in houses built on floating is lands of weeds and decaying". vegetation held together by suspended silt. These islands are called

- (a) Tipis (b) Burkhans
- (c) Phoomdis (d) Izba

**101.** The Ashokan major rock edicts which tell us about the Sangam Kingdom include rock edicts

- (a) I and X (b) I and XI
- (c) II and XIII (d) II and XI V

**102.** Which one of the following east flowing rivers of India rift valley due to down warping ?

- (a) Damodar (b) Mahanadi
- (c) Son (d) Yamuna

**103.** According to the World Development Report, low income economies are those for which the per capita GNP in 1994 was  
(a) US \$ 925 or less (b) US \$ 825 or less  
(c) US \$ 725 or less (d) US \$ 525 or less

**104.** Match List-I with List-II and select the correct answer

**List-I List II**

- A. Theory of Mutation 1. Beadk and Tatum  
B. Theory of Evolution 2. Jacob and Monod  
C. One gene one enzyme 3. Darwin hypothesis  
D. Operon concept 4. DeVries

A B C D A B C D

- (a) 3 4 1 2 (b) 4 3 1 2  
(c) 4 3 2 1 (d) 3 4 2 1

**105.** What is the correct sequence of the following events ?

1. Tilak's Home Rule League.
2. Kamagatamaru Incident.
3. Mahatma Gandhi's arrival in India.

Select the correct answer using the codes given below the lists:

- (a) 1, 2, 3 (c) 2, 1, 3 (b) 3, 2, 1 (d) 2, 3, 1

**106.** An accurate clock shows the time as 3.00. After hour hand has move 135°, the time would be

- (a) 7.30 (b) 6.30 (c) 8.00 (d) 9.30

**107.** The loss of Qandhar was a big blow to the Mughal empire from the view point of

- (a) natural resources  
(b) buffer territory  
(c) communication  
(d) strategic stronghold

**108.** A tree species in Mauritius failed to reproduce because of the extinction of a fruit-eating bird. Which one of the following was that bird ?

- (a) Dove (b) Dodo

(c) Condor (d) Skua

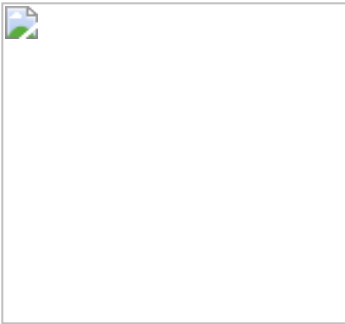
**109.** Which of the following pairs are correctly matched?

1. Mrichchakatikam Shudraka
2. Buddhacharita Vasuvandhu
3. Mudrarakshasha Vishakhadatta
4. Hurshacharita Banabhatta

Select the correct answer using the codes given below

- (a) 1, 2, 3 and 4 (b) 1, 3 and 4  
(c) 1 and 4 (d) 2 and 3

**110.** Forest areas have been labelled as 1, 2, 3 and 4 in the rough outline map given :



Among these, those which were threatened in 1997 by a serious epidemic include

- (a) teak forests of 3 and 4  
(b) oaks forests of 1 and sal forests of 2  
(c) sal forests of 3  
(d) sandalwood forests of 4

**111.** Simon Commission of 1927 was boycotted because

- (a) there was no Indian Member in the Commission  
(b) it supported the Muslim League  
(c) Congress felt that the people of India are entitled to Swaraj  
(d) there were differences among the members

**112.** The current price index (base 1960) is nearly 330. This means that

- (a) all items cost 3-3 times more than what they did in 1960
- (b) the prices of certain selected items have gone up to 3-3 times
- (c) weighted mean of prices of certain items has increased 3-3 times
- (d) gold price has gone up 3-3 times

**113.**



In the above set of figures (I) to (IV), some parts are shown to change their position in a regular direction. Following the same sequence, which one of the following will appear at the fifth stage?



**114.** The Indian Muslims in general, were not attracted to the Extremist movement because of the

- (a) influence of the Sir Sayid Ahmed khan
- (b) anti-Muslim attitude of Extremist leaders
- (c) indifference shown to Muslim aspirations
- (d) Extremists' policy of harping on Hindu past

**115.** Which one of the following statements regarding starch and cellulose is NOT correct ?

- (a) Both of them are of plant origin
- (b) Both of them are polymers
- (c) Both of them give colour with iodine



(d) Both of them are made up of glucose molecules

**116.** Commercial production of mineral oil has started recently in which one of the areas of India, labelled 1, 2, 3 and 4 in the rough map given below

(a) 1 (b) 2 (c) 3 (d) 4



**117.** Examine the following statements

1. All members of Mohan's family are
2. Some members of Mohan's family are not employed.
3. Some employed persons are not honest.
4. Some honest persons are not employed.

Which one of the following inferences can be drawn from the above statements ?

- (a) All members of Mohan's family are employed
- (b) The employed members of Mohan's family are honest
- (c) The honest members of Mohan's family are not employed
- (d) The employed members of Mohan's family are not honest

**118.** The banks are required to maintain a certain ratio between their cash in hand and total assets. This is called

- (a) SBR (Statutory Bank Ratio)
- (b) SLR (Statutory Liquid Ratio)
- (c) CBR (Central Bank Reserve)
- (d) CLR (Central Liquid Reserve)

**119.** Ergotism is due to consumption of

- (a) contaminated grains
- (b) rotting vegetables

- (c) contaminated water
- (d) stale cooked food

**120.** What is the correct chronological order in which the following appeared in India ?

1. Gold coins.
3. Iron plough.
2. Punch-marked silver coins.
4. Urban culture.

Select the correct answer using the codes given below

- (a) 3, 4, 1, 2 (b) 3, 4, 2, 1  
(c) 4, 3, 1, 2 (d) 4, 3, 2, 1

**121.** Match List-I with List-II and select the correct answer

**List-I List II**

(Minerals)(Mining area)

- A. Graphite 1. Bellary  
B. Lead 2. Didwana  
C. Salt 3. Rampa  
D. Silver 4. Zawar

**A B C D A B C D**

- (a) 3 4 1 2 (b) 1 4 2 3  
(c) 3 1 4 2 (d) 2 3 1 4

**122.** In a dinner party both fish and meat were served. Some took only fish and some only meat. There were some vegetarians who did not accept either. The rest accepted both fish and meat.

Which one of the following logic diagrams correctly reflects the above situation ?



**123.** Which one of the following events, was characterized by Montague as 'Preventive Murder'? (a) Killing of INA activists (b) Massacre of Jallianwalla Bagh  
(c) Shooting of the Mahatma (d) Shooting of Curzon-Wythe

**124.** Fawazil in the Sultanate period means  
(a) extra payment made to the nobles  
(b) revenue assigned in lieu of salary  
(c) excess amount paid to the exchequer by the iqtadars  
(d) illegal exactions extracted from the peasants

**125.** The discovery of Oak flora in 1966 added a new chapter to the history of Indian Sericulture. Which one of the following states is the leading producer of Oak tasar silk ?  
(a) Assam (b) Bihar (c) Manipur (d) Orissa

**126.** What is the correct sequence of the following events ?

1. The August offer.
2. The I.N.A. trial.
3. The Quit India Movement.
4. The Royal Indian Naval Ratings Revolt.

Select the correct answer using the codes given below

(a) 1, 3, 2, 4 (b) 3, 1, 2, 4 (c) 1, 3, 4, 2 (d) 3, 1, 4, 2

**127.** Nobel Prize in Economics for the year 1997 was awarded for contribution in the area of  
(a) International Economics (b) Financial Economics  
(c) Public Economics (d) Development Economics

**128.** Match List-I with List-II and select the correct answer

**List-I List- II**

(Places) (Industries)

- A. Jamnagar 1.Aluminium  
B. Hospet 2.Wollen Textile  
C. Korba 3. Fertilizers  
D. Haldia 4. Cement  
5. Iron and Steel

**A B C D A B C D**

(a)4 3 1 2 (b) 2 5 1 3

(c)4 5 2 1 (d) 2 1 4 3

**129.** The complete conversion of glucose in the presence of oxygen into carbon dioxide and water with release of energy is called

- (a) aerobic respiration (b) anaerobic respiration  
(c) glycolysis (d) hydrolysis

**130.** Which one of the following defines extremist ideology during the early phase of Indian freedom movement'?

- (a) Stimulating the production of indigenous articles by giving them preference over imported commodities  
(b) Obtaining self-government by aggressive means in place of petitions and constitutional ways  
(c) Providing national education according to the requirements of the country  
(d) Organizing coups against the British empire through military revolt

**131.** In the vicinity of Mumbai, a number of specialized towns have been developed. Match the lists of specialization with towns and select the correct answer using the codes given below the lists:

**List-I List- II**

(Towns) (Specialization)

- A. Alibag 1. Fishing Centre  
B. Balapur 2. Holiday Resort  
C. Nhava Sheva 3. Petro-Chemical complex  
D. Ratnagiri 4. Port

**A B C D A B C D**

(a) 1 3 2 4 (b) 2 3 4 1

(c) 3 4 2 1 (d) 2 1 4 3

**132.** The accounting year of the Reserve Bank of India is

- (a) April-March (b) July-June
- (c) October-September (d) January-December

**133.** The Sultan of Delhi who is reputed to have built the biggest network of canals in India was (a) Iltutmish (b) Ghiyasuddin Tughlaq

- (c) Feroze Shah Tughlaq (d) Sikandar Lodi

**134.** The major chemical compound found in human kidney stone is

- (a) Uric acid (b) Calcium carbonate
- (c) Calcium oxalate (d) Calcium sulphate

**135.** Which of the following pairs are correctly matched?

- 1. Theodore Beck : Mohammadan Anglo-Oriental College, Aligarh
- 2. Ilbert Bill : Ripon
- 3. Pherozeshah Mehta : Indian National Congress.
- 4. Badruddin Tyabji : Muslim League

Select the correct answer using the codes given below

- (a) 1, 2, 3 and 4 (b) 2 and 4 (c) 1, 3 and 4 (d) 1, 2 and 3

**136.** Match List-I with List-II and select the correct answer

**List-I List -II**

(Agricultural products) (Foremost Producer)

- A. Cotton 1. Madhya Pradesh
- B. Gram 2. Gujarat
- C. Black pepper 3. West Bengal
- D. Pineapple 4. Kerala

**A B C D A B C D**

- (a) 2 1 4 3 (b) 2 1 3 4
- (c) 1 2 4 3 (d) 1 2 3 4

**137.** Which one of the following is the correct sequence of decreasing order of the given currencies in terms of their value in Indian Rupees ?

- (a) US dollar, Canadian dollar, New Zealand dollar, Hong Kong dollar
- (b) US dollar, New Zealand dollar, Canadian dollar, Hong Kong dollar
- (c) US dollar, Hong Kong dollar, New Zealand dollar, Canadian dollar

(d) US dollar, Hong Kong dollar, Canadian dollar, New Zealand dollar

**138.** 'Eco mark' is given to the Indian products that are

- (a) pure and unadulterated
- (b) rich in proteins
- (c) environment friendly
- (d) economically viable

**139.** A, B, C, D, E, F and G are members of a family consisting of 4 adults and 3 children, two of whom, F and G are girls. A and D are brothers and A is a doctor. E is an engineer married to one of the brothers and has two children. B is married to D and G is their child. Who is C?

- (a) G's brother (b) F's father (c) E's daughter (d) A's son

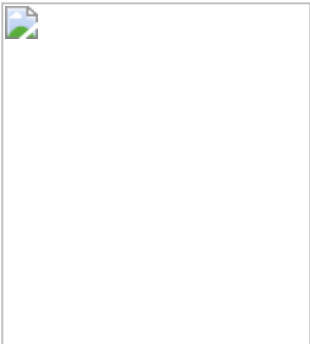
**140.** Capital Account Convertibility of the Indian Rupee implies

- (a) that the Indian Rupee can be exchanged by the authorized dealers for travel
- (b) that the Indian Rupee can be exchanged for any major currency for the purpose of trade in goods and services
- (c) that the Indian Rupee can be exchanged for any major currency for the purpose of trading financial assets
- (d) none of the above

**141.** What are the official languages of the U. N. O ?

- (a) English, French and Russian
- (b) English, French, German and Russian
- (c) English, French, Russian, Chinese and Hindi
- (d) English, French, Chinese, Russian, Arabic and Spanish

**142.** The rough outline map given shows centres of cement industry labelled 1, 2, 3 and 4. Match these centres with the following



**A B C D A B C D**

- (a) 3 4 2 1 (b) 2 4 1 3  
(c) 1 2 4 3 (d) 2 3 1 4

**143.** The Congress is tottering to its fall and one of my great ambitions while in India, is to assist it to a peaceful demise." This statement is attributed to

- (a) Lord Duferin (b) Lord Curzon (c) Lord Lytton (d) None of the above

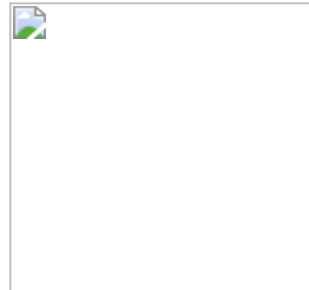
**144.** Economic Survey in India is published officially, every year by the

- (a) Reserve Bank of India  
(b) Planning Commission of India  
(c) Ministry of Finance, Govt. of India  
(d) Ministry of Industries, Govt. of India

**145.** One Astronomical Unit is the average distance between

- (a) Earth and the Sun  
(b) Earth and the Moon  
(c) Jupiter and the Sun  
(d) Pluto and the Sun

**146.** Which one of the following ports shown on the rough outline map of India is a riverine port'?



- (a) 1 (b) 2 (c) 3 (d) 4

**147.** Who was the leader of the Ghaddar Party'?

- (a) Bhagat Singh  
(b) Lala Hardayal  
(c) Bal Gangadhar Tilak

(d) V.D. Savarkar

**148.** Which of the following Parties were not a part of the United Front which was in power during '96-97' ?

1. Bahujana Samaj Party.
2. Samata Party:
3. Haryana Vikas Patty.
4. Asom Gana Parishad.

Select the correct answer using the codes given below

- (a) 1, 2, 3 and 4 (b) 1, 2 and 3  
(c) 3 and 4 (d) 1 and 2

**149.** World Environment Conference to discuss global warming was held in 1997 in

- (a) Stockholm  
(b) Riodejaneiro  
(c) Paris  
(d) Kyoto

**150.** Match List-I with List-II and select the correct answer

**List-I List-II**

- A. Blue Vitriol 1. Sodium Biocarbonate  
B. Epsom salt 2. Sodium Hydroxide  
C. Baking soda 3. Magnesium Sulphate  
D. Caustic soda 4. Copper Sulphate

**A B C D A B C D**

- (a) 3 4 2 1 (b) 4 3 2 1  
(c) 3 4 1 2 (d) 4 3 1 2

Acknowledgement: Thank you so much Mr. Raghu ([www.clik.to/ias](http://www.clik.to/ias)).