

PART-1

(Objective Type Questions)

Each question carries ONE mark. Maximum Time: 150 minutes

Section 1: English

Read the following passage "On Education" by Albert Einstein and answer the questions below (There are 5 questions, no.1-no.5, based on this passage):

A day of celebration generally is in the first place dedicated to retrospect, especially to the memory of personages who have gained special distinction for the development of the cultural life. This friendly service for our predecessors must indeed not be neglected particularly as such a memory of the best of the past is proper to stimulate the well-disposed of today to a courageous effort. But, this should be done by someone who, from his youth, has been connected with this State and is familiar with its past, not by one who like a gypsy has wandered about and gathered his experiences in all kinds of countries.

Thus, there is nothing else left for me but to speak about such questions as, independently of space and time, always have been and will be connected with educational matters. In this attempt I cannot lay any claim to being an authority, especially as intelligent and well meaning men of all times have dealt with educational problems and have certainly repeatedly expressed their views clearly about these matters. From what source shall I, as a partial layman in the realm of pedagogy, derive courage to expound opinions with no foundations except personal conviction? If it was really a scientific matter, one would probably be tempted to silence by such considerations.

However, with the affairs of active human beings it is different. Here, knowledge of truth alone does not suffice; on the contrary this knowledge much continually be renewed by ceaseless efforts, if it is not to be lost. It resembles a statue of marble which stands in the desert and is continuously threatened with burial by the shifting sand. The hands of service must ever be at work, in order that the marble continue lastingly to shine in the sun. To these serving hands mine also shall belong.

Sometimes one sees in the school simply the instrument for transforming certain maximum quantity knowledge to the growing generations. But that is not right. Knowledge is dead; the school however, serves the living. It should develop in the young individuals those qualities and capabilities which are of value for the welfare of the commonwealth. But that does not mean that individuality should be destroyed and the individual becomes a mere tool of the community, like a bee or an ant. A community of standardized individuals without personal originality and personal aims will result in a poor community with no scope for development. On the contrary, the aim must be the training of independently acting and thinking individuals, who, however, see in the service of the community their highest life problem.

Questions:

1. The word *retrospect* means _____.
 - A. to think about future
 - B. to think about past
 - C. to examine one's present
 - D. to gain knowledge

2. The term *pedagogy* means _____.
 - A. study of politics
 - B. study of science
 - C. study of social science
 - D. the study of teaching practices

3. Name the figure of speech that describes the phrase _____ *resembles the statue of marble*.
 - A. onomatopoeia
 - B. hyperbole
 - C. alliteration
 - D. simile

4. According to Einstein, education is about _____.
 - A. memorizing facts.
 - B. making a good living.
 - C. studying scientific development.
 - D. training of individuals to think independently.

5. What literary style is used in the phrase when Einstein refers to himself as a *partial layman in the realm of pedagogy*?
 - A. exaggeration
 - B. understatement
 - C. metaphor
 - D. symbolism

Read the following excerpt from the poem "Ode on a Grecian Urn" by John Keats and answer the questions below (There are 3 questions, from no. 6-no.8, based on this excerpt):

Thou still unravish'd bride of quietness,
Thou foster-child of silence and slow time,
Sylvan historian, who canst thus express
A flowery tale more sweetly than our rhyme:
What leaf-fring'd legend haunts about thy shape
Of deities or mortals, or of both,
In Temple or the dales of Arcady?
What men or gods are these? What maidens loth?
What mad pursuit? What struggle to escape?
What pipes and timbrels? What wild ecstasy?

Heard melodies are sweet, but those unheard
Are sweeter; therefore, ye soft pipes, play on;
Not to the sensual ear, but, more endear'd,
Pipe to the spirit ditties of no tone;
Fair youth, beneath the tree, thou canst not leave
Thy song, nor ever those three can be bare;
Bold lover, never, never canst thou kiss,
Though winning near the goal—yet, do not grieve;
She cannot fade, though thou hast not thy bliss,
For ever wilt thou love, and she be fare!

6. What does the poet mean when he refers to 'unheard' yet 'sweeter melodies'?

 - A. music of the soul
 - B. music of the pipes
 - C. music of the song of the lover
 - D. music of nature

7. Who does the *bold lover* refer to in the above poem?

 - A. the mythic Greek hero
 - B. the young man's figure on the Urn
 - C. the young woman's figure on the Urn
 - D. the shepherd in meadows

8. What are the images NOT portrayed on the Urn?

 - A. flowers and leaves
 - B. deities and mortals
 - C. a maiden and a young man
 - D. demons and monsters

Fill in the blanks with correct options:

9. In retrospect, it was not too difficult for her to realize _____.
- A. where she had gone wrong
 - B. where had she gone wrong
 - C. where did she go wrong
 - D. she had gone wrong where
10. The kind of extensive knowledge about politics, philosophy, and poetry, Reva _____ often comes as surprise.
- A. exhibit
 - B. exhibits
 - C. knows
 - D. cares
11. When I graduate from IIT next month, I _____ a student here for five years.
- A. will have been
 - B. have been
 - C. will be
 - D. has been
12. The rate of _____ has been fluctuating wildly last week.
- A. money
 - B. exchange
 - C. bills
 - D. coins
13. The flight _____ arrives late during bad weather.
- A. every week
 - B. last week
 - C. yesterday
 - D. always

14. Jerry Seinfeld, the popular American comedian, has his audience _____.

- A. keeping their nose out of someone's business.
- B. rolling in the aisles.
- C. putting too many irons in the fire.
- D. going to bat for someone.

15. Blake's hobbies include jogging, swimming, and _____.

- A. to climb mountains
- B. to climb
- C. climbing mountains
- D. climb mountains

16. I have only a _____ new year's cards to write.

- A. few
- B. less
- C. fewer
- D. little

17. Each of the cricketers _____ for months, even years.

- A. have been training
- B. has been training
- C. were training
- D. been training

18. The company will upgrade _____ computer system next month.

- A. there
- B. their
- C. it's
- D. its

19. Her speech was very theatrical. It did not seem to carry much _____.

- A. distinction
- B. conviction
- C. accomplishment
- D. solution

20. A hyperbole _____.

- A. makes something sound more exciting than it really is.
- B. compares two things.
- C. describes two things.
- D. makes something hilarious.

21. He _____ his head in shame.

- A. hang
- B. hanged
- C. hung
- D. hung up

22. Match the following keeping in mind the approximate similarities in understanding the terms:

- | | |
|-----------------|--|
| (1) tittered | (a) ghost |
| (2) trepidation | (b) laugh quietly |
| (3) scruple | (c) doubt about rightness of some action |
| (4) specter | (d) state of anxiety about something bad |

- A. 1 - a, 2-b, 3-c, 4-d
- B. 1 - a, 2-c, 3-b, 4-d
- C. 1 - b, 2-d, 3-c, 4-a
- D. 1 - a, 2-d, 3-c, 4-b

Fill in the blanks with correct options:

23. We find it disturbing that _____ person like John becomes the head of _____ investigating agency like CDA.

- A. a, none
- B. none, a
- C. a, the
- D. none, the

24. None of us _____ equipped with adequate training for firefighting.

- A. is
- B. are
- C. have been
- D. were

25. We finally found _____ in the car park. But there is no _____ for a big car.

- A. a space, space
- B. space, a space
- C. space, spaces
- D. spaces, space

26. Do not do anything impulsive, ----- ?

- A. can you
- B. do you
- C. should you
- D. will you

27. The bad news finally ----- the country to the danger of nuclear warfare.

- A. awoke
- B. awakened
- C. woke
- D. waked up

28. The judge ----- and the jury ----- to consider the verdict.

- A. summarized, retired
- B. reported, passed
- C. carried out, charged
- D. squashed, carried out

29. No one can account for his ----- rise in popularity.

- A. astrological
- B. starry
- C. meteoric
- D. valuable

30. When we arrive at the destination in a different country, we _____ and go through immigration.

- A. deport
- B. disembark
- C. check in
- D. board

31. People have noticed the _____ of political slogans in the minister's speech.

- A. rhetoric
- B. rheumatic
- C. simile
- D. juxtaposition

32. The government ordered a _____ inquiry into the allegations of corruption charges. But the committee of judges did not make _____ use of time made available to them.

- A. continual, continuous
- B. continuous, continual
- C. judicious, judicial
- D. judicial, judicious

33. The findings of the survey _____ contrary to what was expected.

- A. made
- B. came
- C. turned
- D. ran

34. The police are _____ an investigation into robbery.

- A. working out
- B. searching out
- C. making out
- D. carrying out

35. The word that comes closest to the **antonym** of the word 'diabolic' is _____.

- A. historic
- B. envious
- C. demonic
- D. angelic

36. We were ____ friends in the strange but magical country.

- A. upon
- B. among
- C. in addition to
- D. towards

Section 2: Analytical and Quantitative Ability

1. Three pieces of timber with lengths 42 meters, 49 meters, and 63 meters respectively, have to be divided into planks of the same length. What is the least possible number of planks possible?
 - A. 7
 - B. 8
 - C. 21
 - D. 22

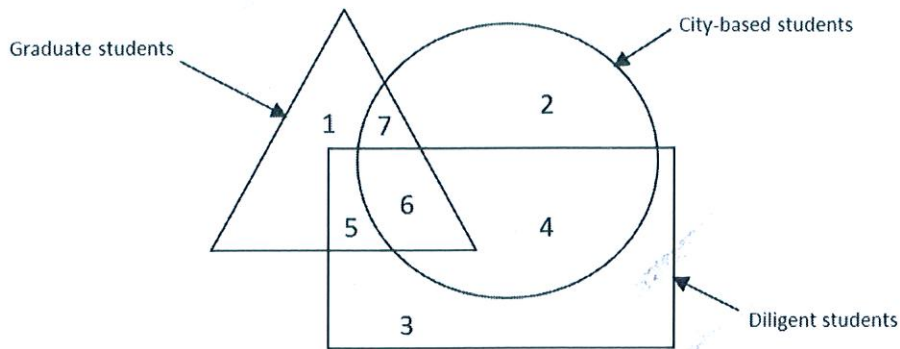
2. Least Common Multiplier (LCM) of two numbers is 936. Their Highest Common Factor (HCF) is 4. If one of the numbers is 72, what is the other number?
 - A. 42
 - B. 52
 - C. 62
 - D. 72

3. A shopkeeper uses a code OLISPAH = 28, where O = Rs. 1, L = Rs. 2, I = Rs. 3, and so on. What price (in Rs.) does "SOAP" denote?
 - A. 16
 - B. 18
 - C. 61
 - D. 120

4. If "/" means addition and "x" means subtraction, what is $(15 \times 9) / (12 \times 4) \times (4 / 4)$ equal to?
 - A. 44
 - B. 36
 - C. 22
 - D. 6

5. A number series is given below with the last term missing. Choose a correct alternative that logically follows the numbers given in the series: 1, 8, 27, 64, 125, ____
- A. 206
 - B. 216
 - C. 222
 - D. 224
6. If TENDER is coded as SDMCDQ, HOTEL should be coded as...
- A. LETOH
 - B. GNSBK
 - C. GNSDK
 - D. KRVHO
7. How is your mother's father's father-in-law's son's daughter related to your mother?
- A. sister
 - B. sister-in-law
 - C. cousin
 - D. aunt
8. Five individual are sitting in a circle. Rehman is sitting between Mathew and Leela. Arti is immediately sitting to the left of Prasad. Mathew is sitting to the immediate left of Arti. Who is sitting to the immediate right of Rehman?
- A. Arti
 - B. Leela
 - C. Mathew
 - D. Prasad

Following three questions are based on the figure below:



9. Which region indicates graduate students who are diligent but not city-based?

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

10. Which region indicates diligent students who are based in city but not in graduate programs?

- A. 3
- B. 2
- C. 1
- D. 4

11. Which region indicates graduate students who are neither diligent nor based in city?

- A. 1
- B. 2
- C. 3
- D. 7

12. If arithmetic mean and geometric mean of two positive numbers are 10 and 8 respectively, what are the two numbers?

- A. 20, 64
- B. 8, 12
- C. 13, 7
- D. 16, 4

13. Auto rickshaw fares in Chennai have the following logic based on the meter reading: the meter reading is rounded to the next multiple of 4; the resultant is multiplied by 120. This gives the fare in paise. After converting the resultant fare to Rs., it is rounded off to the next nearest 50 paise and charged to the customer. If the meter reading is 53, what will be the fare charged (in Rs.)?
- A. Rs. 67.5
 - B. Rs. 64
 - C. Rs. 67
 - D. Rs. 63.5
14. A farmer divides his herd of cows among his four sons in such a way that the first son gets one half of the herd, the second son gets half that of the share of the first son, third son gets one fifth of the herd and the fourth son gets 7 cows. How many cows were there in the herd?
- A. 100
 - B. 140
 - C. 160
 - D. 180
15. An organization purchased 80 chairs for a total of Rs. 9700. For chairs of good quality, they paid Rs. 140 each, and for chairs of inferior quality, they paid Rs. 50 less than that for the chairs of good quality. How many good quality chairs did the organization purchase?
- A. 50
 - B. 64
 - C. 40
 - D. 30
16. When ten persons shake hands with one another, how many total handshakes result without repetitions?
- A. 20
 - B. 25
 - C. 40
 - D. 45

17. Bhuvana has five friends: 3 girls and 2 boys. Her husband also has five friends: 2 girls and 3 boys. They wish to invite two boys and two girls for dinner so that two of them are Bhuvana's friends and two are her husband's. In how many ways can this be achieved?

- A. 32
- B. 36
- C. 46
- D. 324

18. If today is a Friday, what day will it be after 62 days?

- A. Saturday
- B. Thursday
- C. Tuesday
- D. Monday

19. Ahmad's school was closed for summer vacation from April 15, 2014 for 62 days. On what day will the school reopen?

- A. 16th June 2014
- B. 17th June 2014
- C. 15th June 2014
- D. 14th June 2014

20. The variance of 50 observations is 10. If each observation is multiplied by 2, what will be the new variance of the resultant observations?

- A. 50
- B. 40
- C. 20
- D. 10

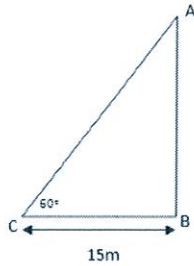
21. Mean of 20 observations was wrongly calculated to be 40, because one of the observations was wrongly taken to be 60 instead of 40. What is the correct mean?

- A. 39
- B. 38
- C. 38.5
- D. 37

22. Kamaal and Murali travel from city P to city Q at a speed of 60 kilometers per hour (kmph) and 40 kmph, respectively. Starting at the same time, if Kamaal reaches city Q 200 minutes ahead of Murali, what is the distance (in km) between city P and city Q?
- A. 133
 - B. 200
 - C. 400
 - D. 666
23. Vincent and Umesh start walking at the same time to meet one another from places 25 kilometer apart. If Umesh walks at a speed of 2 kmph and Vincent at 3 kmph, what is the time lapsed, from the start time, at which they meet?
- A. 4 hours and 20 minutes
 - B. 5 hours
 - C. 8 hours and 20 minutes
 - D. 12 hours and 30 minutes
24. 8 women can complete a task in 12 days, while 20 men can complete the same task in 10 days. How many days will it take for 12 women and 15 men, working together, to complete the same task?
- A. 3.33 days
 - B. 5 days
 - C. 6.66 days
 - D. 8 days
25. Two candidates contested an election. The candidate who got 60% of the votes cast, won the election by 144 votes. There were no invalid votes. What is the total number of voters on the voting list if only 80% of the people cast their votes?
- A. 900
 - B. 720
 - C. 1440
 - D. 1152

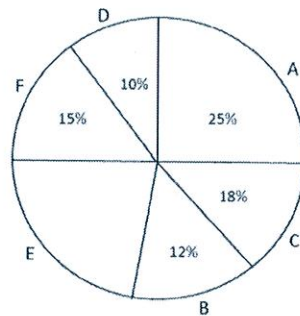
26. On selling tea at Rs. 40 per kg, a loss of 10% was incurred. What was the amount of tea sold (in kg) if the total loss incurred was Rs. 80?
- A. 10 kg
 - B. 12 kg
 - C. 18 kg
 - D. 20 kg
27. At what rate (in %) of simple interest the sum of money doubles in 10 years?
- A. 20
 - B. 8.33
 - C. 5
 - D. 10
28. P, Q and R play cricket. The runs scored by P and Q are in the ratio of 3:2; Q's runs to R's runs are also in the ratio of 3:2. Together the three scored 342 runs. How many runs did R score?
- A. 72
 - B. 114
 - C. 228
 - D. 57
29. A 24 liter mixture contains milk: water in the ratio 3:5. How much water (in liters) must be added to this mixture to reverse this ratio?
- A. 48
 - B. 24
 - C. 16
 - D. 8
30. Arti's father was 38 years old when Arti was born. Her mother was 36 years old when Arti's brother was born. Arti's brother is four years younger to Arti. What is the difference between the ages of Arti's parents?
- A. 6 years
 - B. 2 years
 - C. 4 years
 - D. 8 years

31. A tower stands vertically on the ground. From a point on the ground which is 15 meters from the foot of the tower, the angle of elevation of the top of the tower is found to be 60° . What is the height of the tower?



- (a) $15\sqrt{3}$
(b) $\frac{15}{\sqrt{3}}$
(c) 15
(d) $\frac{15}{\sqrt{2}}$

The pie chart below depicts the budget of a family. The total monthly income of the family is INR 30,800.



The letters in the pie chart represents budgets for various household expenses.

- A: food
B: conveyance
C: clothing
D: miscellaneous
E: savings
F: house rent

32. How much amount (in Rs.) is spent on conveyance per month?

- A. 5544
B. 3966
C. 3696
D. 3600

33. How many degrees should be there in the central angle of the sector for miscellaneous expenses?

- A. 46
- B. 36
- C. 54
- D. 60

34. How much expenses (in Rs.) are incurred on clothing, conveyance and miscellaneous per month, in total?

- A. 12,320
- B. 13,860
- C. 9,240
- D. 10,780

35. What is the budgeted annual savings (in Rs.)?

- A. 6,160
- B. 92,400
- C. 4,620
- D. 73,920

36. The solution to the set of linear equations

$$3x + 2y = 11$$

$$4x - 3y = 9$$

Is

- A. $x = 1, y = 3$
- B. $x = 1, y = 2$
- C. $x = 3, y = 1$
- D. $x = 2, y = 1$

Section 3: Indian Economy

1. Formal sources of credit in India DO NOT include _____.
 - A. co-operatives
 - B. nationalized banks
 - C. employers
 - D. private banks

2. Which of the following is TRUE for Indian states _____?
 - A. Kerala has low human development and high growth
 - B. Gujarat has low growth and high human development
 - C. Rajasthan has fast economic growth and slow human development
 - D. Haryana has fast human development and slow economic growth

3. The past two decades of globalization has seen rapid movements in _____.
 - A. goods, aid and people between countries
 - B. goods, investments and aid between countries
 - C. investments, loans and services between countries
 - D. goods, investments and people between countries

4. Which of the following is in the capital account of India's Balance of Payments _____?
 - A. export of software services of India
 - B. foreign portfolio Investments coming to India
 - C. import of Capital goods to India
 - D. export of Capital goods from India

5. In 2012-13 the Non Performing Assets of Indian banks increased pointing to _____.
 - A. higher profitability of banks
 - B. deteriorating asset quality of the banking sector
 - C. increased return on assets
 - D. deteriorating credit off take

6. The MRTP Act was replaced by _____.
- A. the Competition Act 2002
 - B. the MNREGA Act 2005
 - C. the IDR Act 1951
 - D. the FERA 1973
7. A Giffen good is _____.
- A. a normal good
 - B. a public good
 - C. an inferior good
 - D. an identical good
8. Which of the following is an example of Regional Trade Agreement?
- A. Indian-ASEAN CECA
 - B. India-EU Trade and Investment Agreement
 - C. India-Russia Trade Agreement
 - D. India-US Trade Agreement
9. India moved to full current account convertibility of Rupee since _____.
- A. early 1990s
 - B. mid 1990s
 - C. early 2000s
 - D. mid 2000s
10. Suppose the sales revenue of a firm is Rs. 100,000. The cost of input is Rs.60,000. What will be VAT at 12 percent?
- A. Rs. 12000
 - B. Rs.72000
 - C. Rs. 4800
 - D. Rs.19200

11. Two goods are called complementary goods if _____.

- A. the decline in the price of one good leads to an increase in the demand of the quantity of the other.
- B. the decline in the price of one good leads to a decline in the demand of the quantity of the other.
- C. the decline in the price of one good leads to no change in the demand of the quantity of the other.
- D. all the above three happen.

12. The term LIBOR refers to _____.

- A. London Inter-bank Borrowing Rate
- B. Liberalized Inter-bank Borrowing Rate
- C. Limited Interest Bank Option Rate
- D. Least Inter-bank Offering Rate

13. Which of the following is a measure of Poverty?

- A. Head Count Ratio
- B. Ginni Ratio
- C. Concentration Ratio
- D. Unemployment Ratio

14. Primary deficit in India is _____.

- A. fiscal deficit minus revenue deficit
- B. fiscal deficit plus interest payments
- C. fiscal deficit minus total expenditure
- D. fiscal deficit minus interest payments

15. OPEC is a _____.

- A. Customs Union
- B. Free Trade Zone
- C. Non-Collusive Cartel
- D. Collusive Cartel

16. India's share in world exports in 2012 was _____.
- A. between 2 and 3 percent
 - B. between 1 and 2 percent
 - C. less than 1 percent
 - D. more than 3 percent
17. The Fourteenth Finance Commission is headed by _____.
- A. Vijay Kelkar
 - B. C Rangarajan
 - C. Y V Reddy
 - D. D Subbarao
18. Which of the following is a Direct Tax?
- A. VAT
 - B. Income Tax
 - C. Excise Duty
 - D. Sales Tax

Section 4: Indian Society and Culture

1. Who introduced the term 'Vote Bank' in India?
- A. Yogendra Yadav
 - B. Rajesh Kothari
 - C. M.N.Srinivas
 - D. B.D.Patil
2. Which of the following states has the lowest percentage of female literacy?
- A. Madhya Pradesh
 - B. Arunachal Pradesh
 - C. Andhra Pradesh
 - D. Bihar

3. Which among the following Amendments provides constitutional status for Panchayati Raj institutions?
- A. 72nd Constitutional Amendment Act
 - B. 73rd Constitutional Amendment Act
 - C. 74th Constitutional Amendment Act
 - D. 75th Constitutional Amendment Act
4. Which of the following articles prohibits the State from making any discrimination on the grounds only of religion, race, caste, sex, descent, place of birth and residence?
- A. Article 15 & 16
 - B. Article 14 & 18
 - C. Article 29 & 30
 - D. Article 23 & 24
5. Who coined the term Lokpal in parliamentary debate in 1963?
- A. Anna Hazare
 - B. Laxmi Mall Singhvi
 - C. Shanti Bhushan
 - D. Morarji Desai
6. *Bhavani* is the popular form of theatre from the state of _____.
- A. Rajasthan
 - B. Himachal Pradesh
 - C. Maharashtra
 - D. Gujarat
7. The tribe of Mina is found in _____.
- A. Manipur
 - B. Bihar
 - C. Rajasthan
 - D. Andaman & Nicobar

8. The first factory of the English East India Company in India was in _____.
- A. Surat
 - B. Agra
 - C. Calcutta
 - D. Masulipatanam
9. Which of the following was the mother tongue of the Mughals?
- A. Persian
 - B. Turkish
 - C. Mongol
 - D. Arabic
10. Who among the following was in command in Kanpur during the revolt of 1857?
- A. Khan Bahadur
 - B. Begum Hazrat Mahal
 - C. Kunwar Singh
 - D. Nana Saheb
11. The major agenda of the Asiatic Society of Bengal was _____.
- A. to promote Indian customs.
 - B. to promote Indian religions.
 - C. to promote the study of Indian languages and scriptures.
 - D. to promote Indian education.
12. Which of the following Buddhist texts provide the passage on the conversation between Buddha and Ajatsatru (the King of Magadh)?
- A. Sutta Pitaka
 - B. Vinaya Pitaka
 - C. Abhidhamma Pitaka
 - D. Vessantara Jataka
13. Which of the following states is known for *Chanderi Saree*?
- A. Uttar Pradesh
 - B. Jammu & Kashmir
 - C. Rajasthan
 - D. Madhya Pradesh

14. Which among the following is NOT associated with Sufism?

- A. Zikr
- B. qawwali
- C. shabad
- D. ziyarat

15. Sarda Act of 1929 deals with _____.

- A. widow remarriage
- B. child marriage
- C. inter-caste marriage
- D. polygamy

16. Which American writer influenced Mahatma Gandhi's concept of 'Civil Disobedience'?

- A. Ralph Waldo Emerson
- B. Nathaniel Hawthorne
- C. Henry David Thoreau
- D. Margaret Fuller

17. Which one of the following traditional schools of Hindu philosophy closely resembles the Jaina philosophy?

- A. Vedanta
- B. Samkhya
- C. Mimāmsā
- D. Vaisesika

18. Which one of the Congress sessions passed the historic resolution of *Poorna Swaraj*?

- A. Poona
- B. Lahore
- C. Nagpur
- D. Bombay

Section 5: World Affairs

1. Which among the 15 Soviet republics of the erstwhile USSR was the first to declare its independence?

- A. Lithuania
- B. Estonia
- C. Latvia
- D. Georgia

2. SAARC charter was adopted in the year __ in the city __.

- A. 1985, Kathmandu
- B. 1985, Dhaka
- C. 1986, New Delhi
- D. 1986, Islamabad

3. Farakka Treaty was signed between __ for sharing water of the __.

- A. India and Bangladesh, Ganga
- B. India and Nepal, Mahakali
- C. India and Pakistan, Sutlej
- D. India and Pakistan, Indus

4. European Union was formed in the year __ as a result of __ Treaty.

- A. 1997, Amsterdam Treaty
- B. 2001, Nice Treaty
- C. 1992, Maastricht Treaty
- D. 1951, Paris Treaty

5. G-15 was formed at the 9th NAM summit held in the city of __.

- A. Colombo
- B. Belgrade
- C. Havana
- D. Cairo

6. Who is the author of the book *Jihad vs. McWorld*?

- A. Benjamin Barber
- B. Bernard Lewis
- C. Samuel P Huntington
- D. Francis Fukuyama

7. The UN day is officially celebrated on ____.

- A. 25th December
- B. 26th November
- C. 27th December
- D. 24th October

8. The National Award for the Best Feature Film in the year 2013 was given to ____.

- A. Bhaag Milkha Bhaag
- B. Shahid
- C. Ship of Theseus
- D. Thalaimuraigal

9. Which instrument is Lalgudi Jayaraman associated with?

- A. violin
- B. tabla
- C. sitar
- D. sarangi

10. The outbreak of Ebola virus began in ____.

- A. Ghana
- B. Nigeria
- C. Ethiopia
- D. Guinea

11. Indian Constitution has __ officially recognized languages in the __ Schedule.

- A. 21, 7th Schedule
- B. 23, 9th Schedule
- C. 24, 10th Schedule
- D. 22, 8th Schedule

12. The Doctrine of Containment was first articulated by__.

- A. George Kennan
- B. Hans J. Morgenthau
- C. Henry Kissinger
- D. Kenneth Waltz

13. Who has won the maximum number of gold medals at a single Olympic Game in the history of the Olympics?

- A. Mark Spitz
- B. Michael Phelps
- C. Ian Thrope
- D. Grant Hackett

14. The Nobel Prize for the year 2014 was awarded to Isamu Akasaki, Hiroki Amano and Shiji Nakamura for their contribution in the field of _____.

- A. Chemistry
- B. Microbiology
- C. Physics
- D. Medicine

15. Under the RTI (Right to Information) Act, which officer in the public authority provides the information?

- A. PRO
- B. PIO
- C. Appellate Authority
- D. A staff member from the Ministry of Information & Broadcasting

16. YouTube was founded by _____.

- A. Jack Dorsey, Evan Williams, Biz Stone and Noah Glass
- B. Larry Page and Sergey Brin
- C. Mark Zuckerberg
- D. Chad Hurley, Steve Chan and Jawed Karim

17. Name the island under Sri Lankan control which is often visited by Indian fishermen

- A. Kachchativu
- B. Batticaloa
- C. Coco Island
- D. Trincomalee

18. In which year the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act came into effect in India?

- A. 2011
- B. 2012
- C. 2013
- D. 2014

Section 6: Ecology and Environment

1. The interaction in which one organism benefits and the other is neither harmed nor benefited is called _____.

- A. Parasitism
- B. Mutualism
- C. Commensalism
- D. Amensalism

2. Tropics account greater diversity because they provide

- A. a relatively constant environment
- B. more solar energy
- C. species richness
- D. all of these

3. A by-product of photosynthesis is _____.

- A. Oxygen
- B. Hydrogen
- C. Carbon dioxide
- D. Nitrogen

4. The chemical reaction responsible for formation of photochemical smog is _____.
- A. $\text{SO}_2 + \text{O}_3 + \text{Sunlight}$
 - B. $\text{CO}_2 + \text{SO}_2 + \text{Sunlight}$
 - C. $\text{NO}_2 + \text{SO}_2 + \text{Sunlight}$
 - D. $\text{HC} + \text{NO}_x + \text{Sunlight}$
5. The World Environment Day was started in the year 1972 by _____.
- A. UN General Assembly
 - B. World Bank
 - C. World Health Organization
 - D. Environmental Protection Agency
6. In the past most of the air pollution episodes occurred during the _____.
- A. winter season
 - B. summer season
 - C. monsoon season
 - D. post-monsoon season
7. The gas responsible for the Bhopal gas tragedy of India was _____.
- A. Sulfur dioxide
 - B. Methyl isocyanide
 - C. Nitrogen dioxide
 - D. Carbon monoxide and ozone
8. Which one of the following is NOT a renewable energy _____.
- A. Geothermal energy
 - B. Hydropower
 - C. Nuclear energy
 - D. Wind energy
9. The earth summit held in Rio de Janeiro in 1992 was focused on _____.
- A. conservation of biodiversity
 - B. ozone depletion
 - C. global warming
 - D. watershed management

10. The important gaseous pollutants responsible for acid rain are ____.
- A. SO_x and NO_x
 - B. SO_x and CO
 - C. NO_x and O_3
 - D. O_3 and PM
11. Which one of the following prevents the loss of soil due to its erosion_____.
- A. over cultivation
 - B. over grazing
 - C. deforestation
 - D. crop rotation
12. Which one of the following is NOT a natural ecosystem_____?
- A. forest ecosystem
 - B. grassland ecosystem
 - C. land ecosystem
 - D. desert ecosystem
13. The Environment (Protection) Act of India came into force in the year _____.
- A. 1986
 - B. 1974
 - C. 1981
 - D. 1971
14. An example for non-waterborne disease among the following is_____.
- A. Typhoid
 - B. Hay fever
 - C. Cholera
 - D. Amebic dysentery
15. The recommended day and night noise levels for commercial zone are_____.
- A. 75 and 70 dB(A)
 - B. 50 and 40 dB(A)
 - C. 65 and 55 dB(A)
 - D. 55 and 45 dB(A)

16. The amount of water contained in ice caps and glaciers is _____.

- A. 0.001 %
- B. 0.009 %
- C. 2 %
- D. 97 %

17. In the treatment of water which one of the following is NOT a disinfection process_____.

- A. Chlorination
- B. UV radiation
- C. Ozonation
- D. Ion exchange

18. Which one of the following energy resource produces fewer pollutants during its combustion_____ ?

- A. petrol
- B. diesel
- C. ethanol
- D. biodiesel

PART - 2

Essay Topics

Maximum Time: 30 minutes; Maximum Words: 300; Marks: 30

Write an essay on any ONE of the following topics.

1. Government should spend more resources on health and education than on promotion of art and culture. Discuss.
2. Internet will soon kill the reading habits of people. Discuss.
3. Discuss the various ways in which solid wastes can be managed in a local area.
4. Freedom of expression has its limitations. Justify your response.
5. Should there be another international language, in addition to English, for global communication? Substantiate your response.