

Paper II
Part - B
BASIC SCIENCE
Question Number 16 to 35

- 16) The founder of the popular idea “Zero budget natural farming”
- M.S.Swaminathan
 - Masanobu Fukuoka
 - Subhash Palekar
 - Har Govind Khorana
- 17) ‘Arka Abhay’ is a hybrid variety of which crop?
- Greenchilly
 - Lady’s Finger
 - Bittergourd
 - Pumpkin
- 18) Layering which can be experimented on gooseberry, Jack fruit tree etc..... is
- Mount layering
 - air layering
 - Trunch layering
 - Simple layering
- 19) Refractive index of water
- 1.50
 - 1.33
 - 1.31
 - 1.00
- 20) The alloy present in “Aranmula Kannadi”
- Copper, led
 - Copper, Silver
 - Tin, lead
 - Copper, tin
- 21) If we show a burning match stick to the gas produced by the reaction between zinc and hydrochloric acid.
- Fire is extinguished
 - Nothing happens
 - gas burns with a small sound
 - Gas spreads out
- 22) The acid present in tomato is
- Acetic acid
 - Citric acid
 - Formic acid
 - Oxalic acid
- 23) Hydrangia flowers are seen in different colours due to
- Variation in P^H of soil
 - Different kinds of seed
 - Variation in light
 - Difference in water, fertilizer used
- 24) Eucalyptus, Mahogany etc.... shed their skin for
- Growing new plants
 - Removing the waste
 - Seed collection
 - taking the cell sap
- 25) Salivary gland which does not get opened to the mouth of human beings.
- Parotid
 - Pituitary
 - Sub lingual
 - Sub maxillary
- 26) ECLB is used
- as an instrument to cut off electric flow
 - To make the circuit complete
 - instead of battery
 - to economize the current consumption
- 27) Chemical used to clean the wounds
- Sulphuric acid
 - Hydrogen peroxide
 - Carbon dioxide
 - Ammonium Peroxide
- 28) The walls of sub marines are thicker than ordinary ship due to
- Pressure increases as depth increases
 - Pressure decreases as depth increases
 - Air pressure equals liquid pressure
 - Overcome atmospheric pressure

- 29) Which are not blood cells
a) Magnocytes b) Lymphocytes
c) Eosinophils d) Nutrophils
- 30) The major protein in blood
a) Eosinophil b) Albumin
c) Cerum d) Haemoglobin
- 31) Molecular speed and kinetic energy are related as
a) Inversely Proportional
b) Multiple of each other
c) half proportional
d) Directly proportional
- 32) Heat is transferred from sun to earth by
a) Conduction b) Convention
c) Radiation d) Dynamics
- 33) When pickled, mango shrinks due to
a) Concentration b) P^H value
c) Osmosis d) Conduction
- 34) Metanil Yellow is an adulterant added to which food item.
a) Chilly Powder b) Tea dust
c) Ghee d) Turmeric Powder
- 35) Scientist who discovered medicine for Anthrax seen in cattle.
a) Louis Pasteur
b) Jagadish Chandra Bose
c) Issac Newton
d) Edward Jenner

Paper II Part - C
SOCIAL SCIENCE
Question Number 36 to 55

- 36) Which day is observed as the constitution day?
a) January 26, 1950
b) December 5 1945
c) November 26, 1949
d) July 5, 1950
- 37) In which country having written constitution
a) Britain b) Israel
c) Newzeland d) USA
- 38) To which sector 'Swaraj Trophy related?
a) Industrial Sector
b) Self government Institutions
c) Agricultural sector
d) Fishing
- 39) The first map was prepared by the Greek Philosopher
a) Anaximander b) Magallen
c) Collambus d) Abhilash Tomy
- 40) Imaginary semicircle that join North and South Poles are called
a) Equator b) Latitudes
c) Longitudes d) Poles
- 41) In which continent are the Alps mountain situated?
a) Europe b) Asia
c) Africa d) Australia
- 42) Which instrument used for wind speed
a) Thermometer b) Anemometer
c) Wind wane d) Hygrometer
- 43) National flower of France.
a) Lotus b) Rose
c) Golden Rose d) Lilly
- 44) Which is the highest statue ?
a) Statue of Liberty b) Last supper
c) Statue of Coin d) Statue of Petrarch
- 45) Which is known as black gold?
a) Diesel b) Pepper
c) Petroleum d) Silver
- 46) How many members are in a Kabadi team?
a) 7 b) 4 c) 11 d) 8
- 47) Who is known as Father of humanism?
a) Petrarch b) Mussolini
c) Gandhiji d) Galileo
- 48) Chavittunadakam is the work by
a) Dutch b) Portuguese
c) English d) French
- 49) In which year Turks conquered Constantinople
a) 1945 b) 1453 c) 1435 d) 1940
- 50) The Dutch Power defeated in the Battle of
a) Panipath
b) The first war of independence
c) Kolachel d) Karnatic war
- 51) Governor General who abolished Doctrine of Lapse
a) Lord Delhousie b) Lord Curzon
c) Lord Vellasly d) Lord Raja Das
- 52) Who were the commanders of the naval force of samuthiri?
a) Kunjalis b) Portugese
c) Dutch d) English
- 53) Nagodas were the sericulture's of which place.
a) Punjab b) Maharastra
c) Bengal d) Thamilnadu
- 54) What is the full form of CSO
a) Central Society of organisation
b) Central statistical office
c) Census Society of old age
d) Central School of office
- 55) Forestry included which sector
a) Primary b) Secondary
c) Teritary d) Political

Paper II Part - A
ENGLISH
Question Number 1 to 15

1. Question 1 to 6. Read the following article and choose the right answer.

Everything is possible with confidence. What is confidence really? It is another name for self belief and complete trust in your own self. You are unique and special with your own set of skills and gifts. You have the right to have your own set of opinions and beliefs about things. Most people lose confidence due to past failures. They let the past ruin their present.

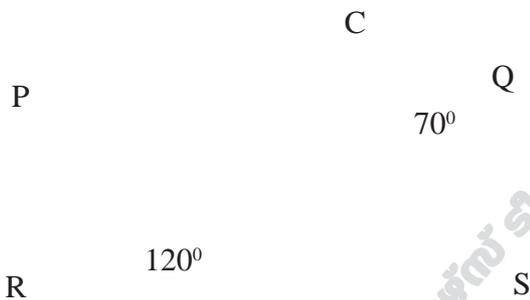
Preparation and practice will give you confidence. Be positive and approach life with a smile rather than a frown. Celebrate every little self improvement and every small personal victory. Take every failure as an opportunity to learn. Overthinking and over analysis in life take away too much of time and postpone important decisions. Go out and meet new people. The best part of interacting with others is that you get a scope to broaden your horizons which is also essential for self improvement. To keep up positive energy, you require regular physical exercise. Taking inspiration from successful people is one of the effective self confidence exercises.

- 1) Confidence means
 - a) Skills and talents
 - b) Self belief and complete trust in self
 - c) Special talents
 - d) None of the above
- 2) How should we change a failure?
 - a) Leave as a past event
 - b) Beware of further failures
 - c) Opportunity to learn
 - d) Self improvement
- 3) What is essential for gaining positive energy?
 - a) Inspiration
 - b) Regular Physical exercise
 - c) Overthinking
 - d) Over analysis
- 4) This is against to become positive
 - a) frown on face b) Smile on face
 - c) Inspiration d) failure

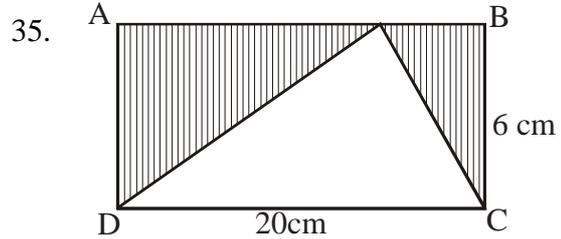
- 5) Which word has the meaning "destroy"
 - a) unique b) frown
 - c) failure d) ruin
- 6) We can take important decisions if we avoid
 - a) failures b) trust
 - c) over analysis d) Self belief
- 7) I have been waiting you a long time
 - a) for b) since
 - c) from d) at
- 8) It is your help I could achieve this
 - a) of b) with
 - c) for d) from
- 9) Who you can do this?
 - a) between b) by
 - c) from d) among
- 10) Which term does not describe a noun?
 - a) beautiful b) slowly
 - c) fine d) bad
- 11) Which proverb can give an idea that "just by appearance you cannot judge a person's character"?
 - a) Early bird catches the worm
 - b) Honesty is the best policy
 - c) An idle man's mind is a devil's workshop
 - d) All that glitters is not gold.
- 12) You should always be optimistic. Being you cannot achieve anything.
 - a) dishonest b) pessimistic
 - c) rude d) diffident
- 13) The children have already the notes
 - a) written b) wrote
 - c) writing d) write
- 14) I cannot walk. I cannot run. These two sentences can be joined by using which of the following?
 - a) Eitheror b) Neither.....nor
 - c) if..... not d) Not only but also
- 15) I am ----- tired ----- do any work
 - a) too , to b) So, to
 - c) Very, of d) too, for

Paper I Part - C
MATHS
Question Number 31 to 50

31. A train travels with a speed of 20m/sec. Find the time taken to cover a bridge of 120m if the length of the train is 80m.
- A. 4sec
B. 20sec
C. 10sec
D. 6sec
32. Find the number which comes in the one's position of 2^{100}
- A. 2
B. 6
C. 8
D. 4
33. $PQ \parallel RS$. The measure of $\angle C = ?$



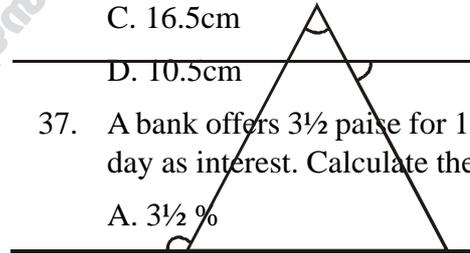
- A. 130°
B. 30°
C. 70°
D. 50°
34. Shopkeeper raises the price of a book which cost Rs.100 by 10%. Then he offers 10% discount to it. Find the new value ?
- A. 101
B. 100
C. 110
D. 99



Find the area of the shaded portion of rectangle ABCD

- A. 120cm^2
B. 60cm^2
C. 30cm^2
D. 20cm^2
36. A man makes the Indian National flag with 16.5cm length. What should be its breadth ?

- A. 11 cm
B. 10cm
C. 16.5cm

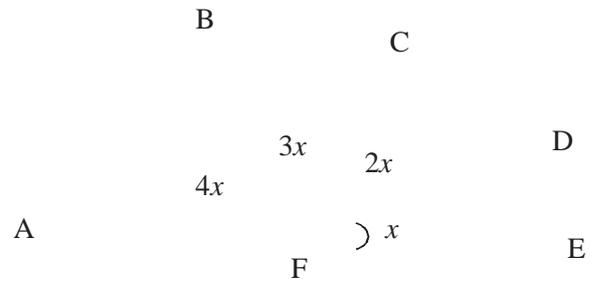


- D. 10.5cm
37. A bank offers $3\frac{1}{2}$ paise for 100 rupees for one day as interest. Calculate the rate of interest?
- A. $3\frac{1}{2}\%$
B. 10.35%
C. 12%
D. 12.775%

38. Among the following which is an odd number ?
- A. 2^{n-1}
B. 2^{7n} ,
C. 2^{n+1}
D. 2^{n+1}
39. Find the angle formed by the hour needle and minute needle when the time is 10.10
- A. 60°
B. 75°
C. 120°
D. 115°

40. Which is not a perfect square ?
- 71288
 - 64516
 - 39601
 - 100489
41. The areas of two rectangles are 40cm^2 each. The length of first rectangle is 10 cm and that of second rectangle is 2 times the first one. Find the breadth of second rectangle.
- 2cm
 - 20 cm
 - 40 cm
 - 15 cm
42. What happens to the area of a square of its side doubles.
- 2 times
 - 4 times
 - Same
 - 8 times
43. Calculate the distance covered by a cyclist in 30 seconds if he travels with a speed of 18km/h .
- 100m
 - 18 km
 - 150m
 - 2 km
44. Find the value of $\frac{2^8 \times 2^5 \times 2^2}{2^4 \times 2^3 \times 2^9}$
- 2
 - 0.5
 - 2^{18}
 - 2^2
45. Find the sum of all odd number from 1 to 100
- 2500
 - 100
 - 5500
 - 2600

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Find $\angle AFC$

- 70°
 - 126°
 - 60°
 - 10°
47. The half of the sum of two consecutive prime numbers is 30. Find the first prime number of that pair.
- 29
 - 30
 - 31
 - 60
48. The ratio of rice and urad dal for idli is 7:5 if the rice is 10.5 cup how much urad dal should be taken
- 5 cup
 - 7.5 cup,
 - 7 cup
 - D/ 12 cup
-
- The diagram shows a horizontal line with a point on it. From this point, three rays extend upwards. The rays are labeled with angles: $D/ 12 \text{ cup}$, 7 cup, and 7.5 cup.
49. The area of a square is 100cm^2 . A square piece of area 1cm^2 is cut from one of its corners. Find the area of the maximum sized square which could be made from it.
- 99cm^2 ,
 - 90cm^2 ,
 - 98cm^2
 - 81cm^2
50. A man travels 5km to East from his house. Then he turns right and travels 6km to south. Then he turns left and travels to East by 3km. Calculate the distance between the current position and his house
- 14 km
 - 10 km
 - 9 km