

DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

# QUESTION BOOKLET

SERIES IV

PAPER- I

BOOKLET SERIAL NO.

103312

Marks : 200

Time : 2 (two) hours

Read the following instructions carefully before you begin to answer the questions.

## INSTRUCTIONS TO CANDIDATES

1. This booklet contains **100 questions** to be answered in a separate OMR Answer Sheet using Black Ball Pen.

**PAPER - I consists of 100 questions.**

2. All Questions are compulsory.

3. You will be supplied the Answer sheet separately by the invigilator. You must complete the details of particulars asked for.

4. Answers must be shown by completely blackening the corresponding circles in the Answer Sheet against the relevant question number by Black Ball Pen. OMR Answer Sheet without marking series/double series marking shall not be evaluated.

**Example :**

Supposing the following question is asked :-

**The Capital of Meghalaya is-**

- A. Guwahati
- B. Kohima
- C. Shillong
- D. Delhi

You will have four alternatives in the Answer Sheet for your response corresponding to each question of the Question Booklet as below :-

(A) (B) (C) (D)

In the above illustration, if your chosen response is alternative C i.e. Shillong, then the same should be marked on the Answer Sheet by blackening the relevant circle with a Black Ball Point Pen only as below :-

(A) (B) (●) (D)

### WHICH IS THE ONLY CORRECT METHOD OF ANSWERING :

- 5. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any one question.
- 6. **There will NOT be any negative marking for wrong answers.**
- 7. The Answer Sheet must be handed over to the invigilator before you leave the Examination Hall.
- 8. No rough work is to be done on the Answer Sheet. Space for rough work has been provided in the question booklet.

**PAPER-I**

**Marks :200**

**Each question carries 2 marks :**

1. Which of the following with respect to "Kalavari" is / are correct ?

- i) It is scorpene class sub marine
  - ii) It is 1<sup>st</sup> of its kind handed over to Indian navy by ship building Mazgaon dock limited
  - iii) It is named after tiger shark
  - iv) It is part of ambitious "Project 75" of Indian Navy's sub marine program
- a) (i) & (ii)                      b) (i),(ii) & (iii)  
c) (i),(iii) & (iv)              d) (i),(ii),(iii) & (iv)

2. Which country has signed UN deal to fight for cocaine production ?

- a) Colombia                      b) Brazil  
c) Venezuela                    d) Peru

3. Which of the following with respect to Brahmaputra biodiversity biology boat (B4) is / are correct ?

- i) Perform tests on water quality & biodiversity of eco system
  - ii) Launched in collaboration with Ministry of DONER
- a) Only (i)                      b) Only (ii)  
c) Both (i) & (ii)              d) Neither (i) nor (ii)

4. In which state an indigenously developed light weight "glide" bomb has been successfully tested in India

- a) Odisha                      b) Gujarat  
c) Maharashtra              d) West Bengal

5. Which of the following is flying fox ?

- a) Bat                              b) Kite  
c) Stork                          d) Vulture

6. Which of the following is / are correct ?

- i) Planning commission was created in 1950, to formulate an integrated five year plan for socio economic development
- ii) Period of plan holiday was 1966 to 1969
- iii) NITIAayog replaced planning commission

in 2015

- a) (i) & (ii)                      b) (i),(ii) & (iii)  
c) (ii) & (iii)                    d) (i) & (iii)

7. Primary gold is gold of

- a) 24 carat                      b) 23 carat  
c) 22 carat                      d) 18 carat

8. Pink revolution is related to

- a) Wool                          b) Milk  
c) Tomato                      d) Shrimp

9. Which of the following is /are correct ?

- i) 10<sup>th</sup> schedule of Indian constitution deals with anti defection law
  - ii) Power of speaker on disqualification is open to judicial review
  - iii) 2/3<sup>rd</sup> of members of a political party can merge with other political party
- a) (i),(ii)                      b) (i),(ii),(iii)  
c) (i),(iii)                      d) (ii),(iii)

10. Development means economic growth with

- a) Price stability              b) Inflation  
c) Social change              d) Deflation

11. Which of the following is / are correct ?

- i) Indian civil service conduct rules prohibit government employees from participating in politics
  - ii) Doctrine of neutrality insulates the Civil service from any politicization
- a) Only (i)                      b) Only (ii)  
c) Both (i) & (ii)              d) Neither (i) nor (ii)

12. Laffer Curve measures

- a) Relation between tax rate and tax revenue
- b) Total tax burden and total payment burden
- c) Total Income and total expenditure
- d) None of the above

13. Who founded "Din i Ilahi" ?

- a) Guru Nanak Dev          b) Akbar

- c) Kabir                      d) Shahjahan

14. What was "Komagata Maru" ?

- a) A political party based in Taiwan  
b) Peasant communist leader of China  
c) A naval ship on voyage to Canada  
d) None of the above

15. In which country did the world's first negative emissions power plant start its operations recently?

- a) Netherlands              b) Iceland  
c) Hungary                      d) Switzerland

16. Which of the following can help in reducing the carbon footprint?

- i) Using fly-ash based cement in building construction.  
ii) Using LED-based electric lamps instead of incandescent lamps.

Select the correct answer using the code given below:

- a) (i) only                      b) (ii) only  
c) Both (i) and (ii)          d) Neither (i) nor (ii)

17. Holography has applications in which of the following?

- (i) Data storage  
(ii) Prevention of counterfeiting  
(iii) Destruction of cancerous cells  
(iv) Detection of kidney stones

Select the correct answer using the code given below:

- a) (i) and (ii) only  
b) (i), (ii) and (iv) only  
c) (iii) and (iv) only  
d) (i), (ii), (iii) and (iv)

18. Which of the following will be the useful control strategies to check outdoor pollution caused by "fine" particulate matter?

- i) Restriction on the use of two-stroke engines  
ii) Restriction on burning of biomass  
iii) Restriction of use of coal as fuel in homes  
iv) Active measure to control forest fires

Which of the statements given above are correct?

- a) (i), (ii), (iii) and (iv)

- b) (i) and (ii) only  
c) (i), (ii) and (iv) only  
d) (i), (ii) and (iii) only

19. In which one among the following States is the Dihang-Dibang Biosphere Reserve located?

- a) Uttarakhand              b) Assam  
c) Orissa                      d) Arunachal Pradesh

20. Which one among the following water bodies separates the Andaman Islands from Nicobar Islands?

- a) 11° Channel  
b) 10° Channel  
c) Gulf of Mannar  
d) Andaman Sea

21. A plant leaf appears to be green because it

- a) Absorbs green light  
b) Reflects all but yellow and blue light  
c) Reflects green light  
d) Absorbs red and yellow light

22. The famous historical book, "Travels in the Mughal empire" was written by

- a) Ibn Batuta  
b) Francois Bernier  
c) Al-Biruni  
d) Thomas Row

23. Consider the following statements about Rabindranath Tagore :

- i) He composed a number of patriotic songs during the Swadeshi Movement.  
ii) He returned his Knighthood to condemn the brutal killing of innocent people at Jallianwalla Bagh  
iii) He refused to accept the Nobel Prize conferred by the British

Which of the statements given above is/are correct?

- a) (i) only                      b) (iii) only  
c) (i) and (ii) only          d) (i), (ii) and (iii)

24. Which of the following are the characteristic of social change?

- (i) Social change is universal although the rate of change varies.

i) Social change is both intentional and unplanned.

(iii) Social change has variable consequences.

Select the correct answer using the code given below:

- a) (i), (ii) and (iii)      b) (i) and (iii) only  
c) (ii) and (iii) only      d) (i) and (ii) only

25. Which of the following powers are available to the President of India but not to the Governor of a State?

(i) Power to grant pardon in case of death sentence

(ii) Diplomatic powers

(iii) Power to veto the bills passed by the State Legislature

(iv) Power to declare emergency on written advice of cabinet

Select the correct answer using the code given below:

- a) (i) and (iv) only      b) (ii) and (iii) only  
c) (i), (ii) and (iii) only      d) (i), (ii) and (iv)

26. Who among the following Indian rulers was the first to change war-technology from matchlocks to flintlocks?

- a) Siraj-ud-daula      b) Hyder Ali  
c) Ranjit Singh      d) Tipu Sultan

27. Which one among the following did not happen in the year 1946?

- a) Announcement of the Cabinet Mission to India  
b) 'Direct Action' call given by the Muslim League  
c) Formation of Interim Government  
d) Lord Mountbatten's appointment as Viceroy of India

28. "Carbon credits" are issued in the terms of units of Certified Emission Reduction (CER). Each CER is equivalent to

- a) 1 kg of CO<sub>2</sub> reduction  
b) 10 kg of CO<sub>2</sub> reduction  
c) 100 kg of CO<sub>2</sub> reduction  
d) 1 tonne of CO<sub>2</sub> reduction

29. Which one of the following is not an ionizing radiation?

- a) Infrared radiation      b) X-rays  
c) Gamma rays      d) Cosmic rays

30. Consider the following statements:

i) The state emblem of India is an adaptation from the Sarnath Lion.

ii) The Sarnath Lion originally comes from the capital of Asoka the Emperor.

iii) The Government adopted the emblem on 15th August 1947.

iv) In the original Sarnath Capital, there are four lions.

Which of the above statements stand true with regard to the state emblem of India?

- a) (i), (ii) and (iii) only  
b) (i), (ii) and (iv) only  
c) (i), (ii), (iii) and (iv)  
d) (i) and (iii) only

31. While managing a mass disaster, the term "triage" applies to?

- a) It is the principle of "first come, first treated."  
b) It is the classification of the injured on the basis of severity of injuries with the concept of treating the most seriously injured first.  
c) It is the classification of the injured on the basis of severity of injuries with concept of treating the children and adolescents first.  
d) It is the classification of the injured on the basis of severity of injuries with concept of treating those first who are likely to survive with medical intervention.

32. Cooking with solid fuel on open fires or traditional stoves results in high levels of indoor air pollution. The indoor smoke contains a range of health-damaging pollutants, which include all of the following except

- a) Lead oxide      b) Carbon monoxide  
c) Sulphur oxides      d) Benzopyrenes

33. The total energy of an electron inside an atom is

- a) More than zero      b) Less than zero  
c) Infinite      d) Zero

34. Arsenic problem in India is primarily due to  
a) Overexploitation of coal in Bihar and Bengal  
b) Overexploitation of ground water in the affected areas  
c) Overexploitation of surface water in the affected areas  
d) Overexploitation of arsenopyrite in the hinterland

35. Which Mughal Emperor prohibited the use of tobacco?

- a) Jahangir                      b) Aurangzeb  
c) Muhammad Shah          d) Babur

36. Buddha's preaching was concerned most with

- a) Devotion  
b) Ritualism  
c) Purity of thought & conduct  
d) Belief in the same god

37. Democratic Socialism aims at

- a) Bringing about Socialism through non violent and peaceful means  
b) Bringing about Socialism through violent means  
c) Bringing about Socialism through democratic means  
d) None of the above

38. In our country the 'Van Mahotsav' Day is usually observed on

- a) 1st July                      b) 2nd October  
c) 1st December              d) 10th August

39. Consider the following statements regarding diamond

- i) It is an allotrope of silicon  
ii) It is a bad conductor of heat and electricity  
iii) It is the hardest substance  
iv) It burns to produce carbon dioxide

Which of the statements given above are correct?

- a) (i), (ii), (iii) and (iv)  
b) (ii), (iii) and (iv) only  
c) (i) and (ii) only  
d) (i), (iii) and (iv) only

40. Which one of the following set of states does not receive most of its rainfall from SW monsoon during the months of June to September?

- a) Arunachal Pradesh and Gujarat  
b) Assam and Karnataka  
c) Himachal Pradesh and Rajasthan  
d) Tamilnadu and Jammu & Kashmir

41. On planet Earth there is no centrifugal force at the

- a) Equator                      b) Tropic of Cancer  
c) Tropic of Capricorn      d) Poles

42. The entry 'Public Health and Sanitation' is included in the Constitution of India in

- a) Union List                      b) State List  
c) Concurrent List              d) None of the above

43. On which of the following grounds can a Judge of the Supreme Court or a High Court be impeached?

- i) Proved misbehaviour  
ii) Incapacity

Select the correct answer using the code given below:

- a) (i) only                      b) (ii) only  
c) Both (i) and (ii)              d) Neither (i) nor (ii)

44. Which of the following statements with regard to the Federal System is/are correct?

- i) In a federation, two sets of governments co-exist and there is distribution of power.  
ii) There is a written constitution.

Select the correct answer using the code given below

- a) (i) only                      b) (ii) only  
c) Both (i) and (ii)              d) Neither (i) nor (ii)

45. Birds like Flamingos can stand on one leg. Which among the following statements relating to this is/are correct?

- i) By standing on one leg Flamingos can conserve body heat and energy because they can reduce great deal of surface area for the loss of heat.  
ii) By standing on one leg, one Flamingo makes a courtship display.

Select the correct answer using the code given below :

- a) (i) only                      b) (ii) only  
c) Both (i) and (ii)        d) Neither (i) nor (ii)

46. The phenomenon of trade winds takes place due to

- a) Conduction of heat  
b) Convection of heat  
c) Radiation  
d) None of the above

47. Which among the following is/are the impact/impacts of industrial revolution in England?

- i) Cottage industry was replaced by the factory system of production using machines.  
ii) It led to the overpopulation of villages.  
iii) It led to the emergence of working class movements.

Select the correct answer using the code given below :

- a) (i), (ii) and (iii)        b) (i) and (iii) only  
c) (i) only                      d) (ii) and (iii) only

48. Which of the following is / are the chief characteristics of commercial grain farming of the middle latitude grasslands?

- i) The size of farms are generally large  
ii) Cultivation is highly mechanized.  
iii) It is a type of extensive farming.

Select the correct answer using the code given below

- a) (i) and (ii) only        b) (ii) only  
c) (i), (ii) and (iii)        d) (i) and (iii) only

49. Neel Darpan is a play based on the story of Indigo rebellion of Bengal of 1860- 61. Who authored it?

- a) Dinabandhu Mitra  
b) Bankim Chandra Chattopadhyaya  
c) Sisir Kumar Ghosh and Motilal Ghosh jointly  
d) Madhusudan Dutta

50. A man was trapped in a room of a building which was up in flames. Fire-fighters had to break window panes which were filled in smoke to take him out. Once the injured person is out,

he should be observed/treated immediately for

- a) Superficial burn wound  
b) Electric burn wound  
c) Respiratory burn  
d) Internal organ injury

51. Identify the correct sequence of the following events of Indian history :

- i) Foundation of the Indian Muslim League  
ii) Surat Split  
iii) Partition of Bengal  
iv) Transfer of capital from Calcutta to Delhi  
v) Minto Morley reform

Select the correct answer using the code given below

- a) (i) - (ii) - (iii) - (iv) - (v)  
b) (ii) - (iii) - (iv) - (i) - (v)  
c) (iii) - (i) - (ii) - (v) - (iv)  
d) (iv) - (iii) - (ii) - (i) - (v)

52. In a democracy, individual differences are encouraged because

- a) Individuals will place the good of the nation ahead of their own preferences  
b) Individuals will tend to act and think alike in the long run  
c) Individual differences make diverse beneficial contributions to the common cause  
d) None of the above

53. When the productive capacity of the economic system of a State is inadequate to create sufficient number of jobs, it is called

- a) Seasonal unemployment  
b) Structural unemployment  
c) Disguised unemployment  
d) Cyclical unemployment

54. Special Drawings Rights (SDRs) relate to

- a) The World Bank  
b) The Reserve Bank of India  
c) The World Trade Organization  
d) The International Monetary Fund

55. Lack of atmosphere around the moon is due to

- a) Low escape velocity of air molecule and low gravitational attraction

- b) High escape velocity of air molecules and low gravitational attraction
- c) Low gravitational attraction only
- d) High escape velocity of air molecule only

56. When two sound waves of slightly different frequency interfere

- a) Noise is produced
- b) Beats are produced
- c) Resonance
- d) Non linear effects

57. Which among the following conditions are necessary for the issue of writ of Quo warranto?

- i) The office must be public and must be created by a statute or by the constitution itself.
- ii) The office must be a substantive one and not merely the function or employment of a servant at will and during the pleasure of another.
- iii) There has been a contravention of the constitution or a statute or statutory instrument, in appointing such person to that office.

Select the correct answer using the code given below-

- a) (i) and (ii) only
- b) (i) and (iii) only
- c) (ii) and (iii) only
- d) (i), (ii) and (iii)

58. Which of the following measures should be taken when an economy is going through inflationary pressures?

- i) The direct taxes should be increased.
  - ii) The interest rate should be reduced.
  - iii) The public spending should be increased
- Select the correct answer using the code given below-

- a) (ii) only
- b) (ii) and (iii)
- c) (i) and (ii)
- d) Only (i)

59. Who among the following Governor-Generals formed the Triple Alliance against Tipu Sultan?

- a) Warren Hastings
- b) Lord Cornwallis
- c) Lord Wellesley
- d) Lord William Bentinck

60. Which one among the following is a fundamental duty of citizens under the Constitu-

tion of India?

- i) to uphold and protect the sovereignty, unity and integrity of India
  - ii) to promote harmony and the spirit of common brotherhood amongst all the people of India transcending religious, linguistic and regional diversities, to renounce practices derogatory to the dignity of women
  - iii) To defend the country and render national service when called upon to do so
  - iv) to protect and improve the natural environment including forests, lakes, rivers, and wildlife and to have compassion for living creatures
- Which of the following statements are correct?
- a) (i) & (ii)
  - b) (ii) & (iii)
  - c) (i),(ii),(iii) and (iv)
  - d) (ii),(iii) and (iv)

61. The best Colours for a Sun umbrella should be

- a) Black on top and red on inside
- b) Black on top and white on inside
- c) Red on top and black on inside
- d) White on top and black on inside

62. Grave's disease is caused due to

- a) Hyperactivity of thyroid
- b) Hypoactivity of thymus
- c) Hypoactivity of thyroid
- d) Hyperactivity of thymus

63. Open market operation refers to:

- a) Purchase and sale of government securities by the RBI
- b) Deposit mobilisation
- c) Borrowing by scheduled banks from the FDR
- d) None of the above

64. Who are the price-takers under Perfect Competition?

- a) Industry
- b) Government
- c) Firms
- d) Buyers

65. Red light is used in traffic signal for stopping the traffic because:

- a) Eye is more sensitive to red light.
- b) It is least scattered and hence can be easily noticed from long distance
- c) it is very pleasant to the eye

d) it is visible even to the longsighted people

66. From which fund can the unanticipated expenditure be met without the prior approval of the parliament?

- a) Consolidated Fund of India
- b) Contingency Fund of India
- c) Vote-on Account
- d) From the Treasury

67. Effective demand depends on

- a) Capital output ratio
- b) Output capital ratio
- c) Total expenditure
- d) Supply price

68. Which of the following is instrument for legislative control over administration?

- i) Zero hour
  - ii) Adjournment motion
  - iii) Budget session
  - iv) Formulation of a bill
- a) (i),(ii),(iii)                      b) (ii),(iii),(iv)  
c) (i),(iii)                              d) (i),(ii)

69. The vertical movement of air is termed as

- a) Wind                                      b) Air Current
- c) Air turbulence                        d) Air mobility

70. The most potent sites to produce tidal energy include

- i) Gulf of Cambay
  - ii) Gulf of Kutch
  - iii) Ganges delta in region of Sunderban
- a) (i), (ii)                                  b) (i), (iii)  
c) (i),(ii),(iii)                         d) Only (ii)

71. Consider the following statements:

- i) Ozone is mostly found in the stratosphere.
- ii) Ozone layer lies 55-75 km above the surface of the Earth.
- iii) Ozone absorbs ultraviolet radiation from the Sun.
- iv) Ozone layer has no significance for life on the Earth.

Which of the statements given above are correct

- a) (i) and (ii)                              b) (i) and (iii)

c) (ii) and (iii)

d) (iii) and (iv)

72. The Operation Polo was associated with annexation of which one among the following Princely States into Indian Union?

- a) Junagadh                                b) Travancore
- c) Kashmir                                 d) Hyderabad

73. Consider the following statements:

- i) Coriolis effect is zero at the Equator.
- ii) Coriolis effect is more towards the Poles.
- iii) Coriolis effects are related to the decreasing rotational velocity with increasing latitudes.
- iv) Coriolis effects are related to the increasing rotational velocity with increasing latitudes.

Which of the statements given above are correct?

- a) (i), (ii) and (iii)                      b) (i) and (iii) only  
c) (i), (ii) and (iv)                      d) (ii) and (iv) only

74. Mongols under Chengiz Khan invaded India during the reign of

- a) Balban                                    b) Feroz Shah Tughlaq
- c) Iltutmish                                d) Md Bin Tughlaq

75. Darwin finches refers to a group of

- a) Fishes                                    b) Lizards
- c) Birds                                      d) Amphibians

76. Glycol is added to aviation gasoline because it

- a) Reduces evaporation of petrol
- b) Increases efficiency of petrol
- c) Prevents freezing of petrol
- d) Reduce consumption of petrol

77. In the cells of living organisms, other than nucleus, which of the following organelles contains DNA?

- a) Cell membrane
- b) Endoplasmic reticulum
- c) Golgi bodies
- d) Mitochondria

78. Which one of the following is not a keyword of Gandhian Government?

- a) Self-sufficiency
- b) Decentralized production

- c) Equitable distribution
- d) Centralised production

79. Which is the most stable eco-system?

- a) Desert
- b) Ocean
- c) Mountain
- d) Forest

80. Which of the following statements about Jyotirao Phule's Satyashodhak Samaj Movement in Maharashtra is/are true?

- i) The Satyashodhak Samaj was set up in 1873.
- ii) Phule argued that Brahmins were the progeny of 'alien' Aryans.
- iii) Phule's focus on the Kunbi peasantry in the 1880s and 1890s led to a privileging of Maratha identity.

Select the correct answer using the code given below.

- a) (i) and (ii) only
- b) (ii) only
- c) (i) and (iii) only
- d) (i), (ii), (iii)

81. A writ of Habeas Corpus for the release of a person can be issued

- i) When the arrest or detention has taken place in contravention of the procedure established by law
- ii) To secure the release of a person imprisoned on a criminal charge
- iii) When the arrest has taken place for contempt of Court or the Parliament

Select the correct answer using the code given below.

- a) (i), (ii) and (iii)
- b) (ii) and (iii) only
- c) (i) only
- d) (i) and (ii) only

82. Lokayukta submits its report to the

- a) Speaker of legislative assembly
- b) CM
- c) Governor
- d) Chief Justice of High court

83. Genetic screening is

- a) Analysis of DNA to check the presence of a particular gene in a person
- b) Analysis of gene in a population
- c) Pedigree analysis

- d) Screening of infertility in parents

84. 'Rio + 20' is the short name for

- a) Millennium Development Goals
- b) United Nations Conference on Sustainable Development
- c) Earth Summit
- d) Post-2015 Development Agenda

85. Under flexible exchange rate system exchange rate is determined

- a) Predominantly by market mechanism
- b) By the Central Bank
- c) As a weighted index of a group of currencies.
- d) By the World Trade Organization

86. Which of the following statements regarding Jhum cultivation in India are correct?

- i) It is largely practiced in North-Eastern states.
- ii) It is referred to as 'slash and burn' cultivation
- iii) In it, fertility of soil is exhausted in a few years

Select the correct answer using the code given below:

- a) (i) and (ii) only
- b) (ii) and (iii) only
- c) (i) and (iii) only
- d) (i), (ii) and (iii)

87. Which of the following is correct ?

- i) Pakal Dul hydro electric project is being constructed on Marusadar river
  - ii) Marusadar is tributary of Chenab river
- a) Only (i)
  - b) Only (ii)
  - c) Both (i) and (ii)
  - d) Neither (i) nor (ii)

88. Regarding multi drug resistant TB which the following is correct ?

- i) It is higher among children
  - ii) It does not respond to Ordinary TB treatment
  - iii) It is caused by Virus
- a) (i),(ii),(iii)
  - b) (ii),(iii)
  - c) (i),(ii)
  - d) (i),(iii)

89. Zoonose disease is

- a) Disease transmitted from animals to humans

- b) Zoo with human
- c) Ecosystem preventing Ozone
- d) Wild species of Chimpanzee

90. "Antara" is

- a) Free funeral service
- b) Classical music renovation project
- c) Injectable contraceptive program
- d) Distance learning mode

91. Consider the following statements regarding ease of doing business rankings

- i) It is announced by IMF
- ii) India ranks at 100<sup>th</sup> place in the 2018 rankings
- iii) The ranking capture large number of reforms in all states of India

Which of the statements given above is/ are true?

- a) (i),(ii)
- b) (ii) only
- c) (i) only
- d) (i),(ii),(iii)

92. "Marawi" crisis is in which country?

- a) Yemen
- b) Iraq
- c) Philippines
- d) Turkey

93. What is THAAD ?

- a) Anti ballistic missile defense system
- b) Satellite launch vehicle
- c) Satellite
- d) Unmanned aerial vehicle

94. Top ranker in Sustainable development goals index

- a) Sweden
- b) Denmark
- c) Finland
- d) Norway

95. What is "Saraswati" found recently in news?

- a) River linking project of GOI
- b) Super cluster of galaxies
- c) An award in the field of classical music
- d) Education project of GOI

96. Which of the following is drawback of loan waiver ?

- i) It covers only a tiny fraction of farmers
- ii) It gives only partial relief
- iii) Strikes the root of credit culture
- iv) It excludes agricultural laborer who is even

weaker than cultivators in bearing consequences of distress

- a) (i),(ii)
- b) (i),(ii),(iv)
- c) (i),(ii),(iii)
- d) (i),(ii),(iii),(iv)

97. Which of the following is/are correct ?

- i) "She box" is online complaint management system
- ii) "She box" has been created by central home ministry

- a) Only (i)
- b) Only (ii)
- c) Both (i) & (ii)
- d) Neither (i) nor (ii)

98. "Muntra" is

- a) Unmanned tank
- b) Scheme for musicians
- c) Magnetically levitated train
- d) Health portal

99. Which of the following regarding "FAME India" is / are correct ?

- i) It is part of national electric mobility mission plan
- ii) Intended to support electric vehicles market development

- a) Only (i)
- b) Only (ii)
- c) Both (i) & (ii)
- d) Neither (i) nor (ii)

100. "Korea plus cell" is

- a) Military accord with Korea
- b) India & Korea joint venture for space technology
- c) To attract Foreign direct investment from Korea
- d) None of the above

\*\*\*\*\*

DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

**QUESTION BOOKLET**      **SERIES III**  
**PAPER-II**

BOOKLET SERIAL NO.

203679

Marks : 200

Time : 2 (two) hours

Read the following instructions carefully before you  
begin to answer the questions.

**INSTRUCTIONS TO CANDIDATES**

1. This booklet contains **80 questions** to be answered in a separate OMR Answer Sheet using Black Ball Pen.

**PAPER-II consists of 80 questions.**

2. All Questions are compulsory.
3. You will be supplied the Answer sheet separately by the invigilator. You must complete the details of particulars asked for.
4. Answers must be shown by completely blackening the corresponding circles in the Answer Sheet against the relevant question number by Black Ball Pen. OMR Answer Sheet without marking series/ double series marking shall not be evaluated.

*Example :*

Supposing the following question is asked :-

**The Capital of Meghalaya is-**

- A. Guwahati
- B. Kohima
- C. Shillong
- D. Delhi

You will have four alternatives in the Answer Sheet for your response corresponding to each question of the Question Booklet as below :-

(A) (B) (C) (D)

In the above illustration, if your chosen response is alternative C i.e. Shillong, then the same should be marked on the Answer Sheet by blackening the relevant circle with a Black Ball Point Pen only as below :-

(A) (B) ● (D)

**WHICH IS THE ONLY CORRECT METHOD OF ANSWERING :**

5. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any one question.
6. **There will NOT be any negative marking for wrong answers.**
7. The Answer Sheet must be handed over to the invigilator before you leave the Examination Hall.
8. No rough work is to be done on the Answer Sheet. Space for rough work has been provided in the question booklet.

## PAPER-II

Marks :200

Each question carries 2.5 marks :

Read the following passages carefully and answer the questions given below it.

### Passage :

Since the most ancient times India has been not only periodically invaded by greedy groups, but also visited by tradesmen and travellers, Scholars and site seers. Some of them have written books. The books of these writers become all the more important because there were not too many of them and they have served as rich sources for the historians. It is especially in this context that observations provided by the great Chinese writer Hiuen Tsang become very relevant.

Already in the 7th century, Buddhism was a powerful cultural force among the educated classes of China. It was common for Chinese pilgrims to come to India, the native land of Buddha, to pay their respects to founder of their religion. Perhaps the most of them all was this gentle observer who had studied and travelled extensively in China before entering the Indian subcontinent. Being both scholar and sophisticated, he was not given to easy praise. Within India itself he traversed deserts and lived in capitals, practiced in monasteries and studied in universities and spent time in some royal courts as well.

He went to Madhura and Ayodhya to Prayag and pataliputra, to Gaya and Kamarupa. He studies Sanskrit and Pali to delve deeper into Buddhist philosophy and Hindu traditions. Most important of all he wrote down in detail his many experiences and impressions.

1. Why the writings of Hiuen Tsang are considered relevant ?

- a) He has spent some time in royal courts
- b) He visited India as trader and site seer
- c) He had travelled to many Asian countries
- d) None of the above

2. What probably prompted Hiuen Tsang to travel to India ?

- a) To study influence of Buddhism on Hindu religion
- b) To spread his religion in India
- c) To undertake pilgrimage and enhance knowledge
- d) To study the powerful cultural force in India

3. As per the passage, which of the following cities was not visited by Hiuen Tsang

- a) Mathura
- b) Varanasi
- c) Gaya
- d) Pataliputra

4. The writing of Hiuen Tsang appears to be objective because

- a) He was learned and cultured
- b) He had visited China and could compare it with India
- c) He had great respect for India
- d) He was basically a historian

5. Why the writing of ancient writers is considered as very important ?

- a) We get an account about the purpose of the invaders
- b) It gives essence of Buddhist philosophy and Hindu tradition
- c) They are among the few source of historical importance
- d) They are written by famous people

### Passage :

Mahatma Gandhi has repeatedly called himself a truth seeker and has learned, in the course of his search, that truth is condition of being, not a quality outside of oneself or a moral acquisition, that it is of the very essence of the divine in man. Though he saw deceit and falsehood all around him, and knew that it was accepted as the standard of life by people occupying positions of authority and influence, he was never afterwards tempted to yield to it even when to have done so would have brought advantage and no condemnation.

For healing he always had a great love and some aptitude and when at the age of seventeen his family in conclave suggested his going to England to study law, he begged to be allowed to study medicine instead. This however was not permitted and law was chosen for him. But the love of healing remained, and though he could not study in the orthodox schools, he gratified his desire by studying various forms of nature cure treatment and by experimenting with these on his person and on his friends and relatives. Some of these experiments produced remarkable results possibly not only due to the treatment but also to his devoted and instinctive nursing.

6. Mahatma Gandhi described himself as a man

- a) In search of divine qualities
- b) Who would like to serve people
- c) Who would like to set standard of life
- d) Who would not compromise on his principles

7. What temptation did Gandhiji always resist?

- a) Getting attracted towards worldly comforts
- b) Ignoring dictates of elderly
- c) Healing the wound of other
- d) Following deceit and falsehood

8. Choose the word which is most nearly the same in meaning as the word yield as used in passage

- a) Surrender
- b) Provoke
- c) Confine
- d) Adapt

9. Gandhiji studied law mainly because

- a) He wanted to be an eminent lawyer
- b) He wanted to go to England
- c) His family thrust upon him the study of law
- d) He knew he can make a good career in legal profession

10. What was Gandhiji's idea of truth ?

- a) It is condition of being
- b) It should be observed with a healing touch
- c) It should not be followed with an idea of sacrifice
- d) It should be searched in the world around

you

11. What did Mahatma Gandhi learn in the course of his search

- a) Being truthful is a divine blessing
- b) Truth is synonymous with ones existence
- c) People are full of deceit and falsehood
- d) Truth is quality outside of oneself

**Passage :**

Most office workers assume that the messages they send to each other via electronic mail are as private as a telephone call or face to face meeting. That assumption is wrong. Although it is illegal in many areas for an employer to eavesdrop on private conversations or telephone calls - even if they take place on company owned telephone - there are no clear rules governing e mail. In fact, the question of how private e mail transmission should be has emerged as one of the more complicated legal issues of the electronic age.

People's opinion about the degree of privacy that electronic mail should have, vary depending on whose electronic mail system is being used and who is reading the messages. Does a government office for example have the right to destroy e messages created in course of running the government, thereby denying public access to such documents? Some hold that government offices should issue guidelines that allow their staff to delete such e records, and defend this practice by claiming that the messages thus deleted already exist in paper versions whose destruction is forbidden. Opponents of such practices argue that paper versions often omit such information as who received the messages and when they received them, information commonly carried on electronic mail system. Government officials, opponents maintain, are civil servants; the public should thus have the right to review any documents created during the conducting of government business.

Questions about e mail privacy have also arisen in the private sector. Recently, two employees of an automotive company were discovered to have been communicating disparaging informa-

tion about their supervisor via e mail. The supervisor who had been monitoring the communication, threatened to fire the employees. When the employees filed a grievance complaining that their privacy had been violated, they were let go. Later, their court case for unlawful termination was dismissed; the company's lawyers successfully argued that because the company owned the computer system, its supervisors had the right to read anything created on it.

In some areas, laws prohibit outside interception of e mail by a third party without proper authorization such as a search warrant. However, these laws do not cover inside interception such as occurred at the automotive company. In the past courts have ruled that interoffice communications may be considered private only if employees have a reasonable expectation of privacy when they send the messages. The fact is that no absolute guarantee of privacy exists in any computer system. The only solution may be for users to scramble their own messages with encryption codes; unfortunately such complex codes are likely to undermine the principal virtue of e mail & its convenience.

12. Which one of the following statements most accurately summarizes the main point of passage?

- a) Until the legal questions surrounding the privacy of email in both public and private sectors have been resolved, office workers will need to scramble their e mail messages with encryption codes
- b) The legal questions surrounding the privacy of e mail in work place can best be resolved by treating such communications as if they were as private as telephone conversations or face to face meetings
- c) Any attempt to resolve the legal questions surrounding the privacy of e mail in workplace must take into account the essential differences between public sector and private sector business
- d) At present, in both the public and private sectors, there seem to be no clear general answers to the legal questions surrounding the

privacy of e mail in the work place (according to the passage)

13. According to the passage, which one of the following best expresses the reason some people use to oppose the deletion of e mail records at government offices?

- a) Such deletion reveals the extent of government's unhealthy obsession with secrecy
- b) Such deletion runs counter to the notion of government's accountability
- c) Deletion clearly violates the legal requirement that government offices keep duplicate copies of all their transactions
- d) Such deletion violates the government's own guidelines against destruction of e records

14. Based on the passage, the author's attitude towards interception of e mail can most accurately be described as

- a) Outright disapproval of the practice
- b) Support for employees who engage in it
- c) Intellectual interest in its legal issues
- d) None of the above

**Passage :**

Survival is the most essential factor for every living organism. People resort to different tricks to make both ends meet. One such live instance is mentioned here. Villagers of Makhrada village believed that a witch lived in the dense forest near Makhrada. The passersby were much harassed by the witch who used to frighten them and also took their belongings. In the village there lived a young man named Dhiru who was fond of adventures. When he heard about the witch, he did not believe that it was one of the witches who ate flesh. But there was something else about the witch, which made Dhiru curious. She did not eat flesh but took away the belongings of the people. Therefore, he was keen to solve this mystery.

He set out with a bag of mangoes. He walked through the forest till it was mid way. He took shelter under a shady tree and pretended to be fast asleep. However, after some time, he really fell asleep. After a while, he felt that someone was trying to snatch his bag of mangoes,

suddenly he woke up and caught hold of the person. It was the witch who tried to frighten Dhiru and run away. But Dhiru was strong and bold enough to hold the witch fast. The witch finally surrendered. Dhiru forced to tell who really she was. The witch removed her mask and narrated her story. She told that she was a poor old widow and she had no body to look after her. Therefore, she used to live in the forest, wearing a fearful looking mask. People passing through the forest got frightened due to her appearance and took her for a witch. She then robbed the people of their belongings to make both ends meet. Dhiru took pity on her and gave her the mangoes.

15. Which of the following qualities of Dhiru helped him to overpower the witch?

- a) Courage and anxiety
- b) Wisdom and intelligence
- c) Curiosity and intelligence
- d) Courage

16. According to the author, people play different tricks in order to

- a) Frighten others who are feeble minded
- b) Earn their bread
- c) Connect both ends
- d) Sympathize with others

17. What made Dhiru curious?

- a) The fearful appearance of the witch
- b) The fact that the witch lives in the forest
- c) The fact that witch was taking away belongings of people
- d) None of the above

**Passage :**

Govind's father was a rich landlord, who was loved and respected by all his tenants. When he died, he left large tracts of land to Govind. But Govind did not spend a single day looking after his land. He had a funny idea, that there existed a magic potion which, if it was poured on any object would turn it into gold. He spent all his time trying to learn more about this potion. People took advantage of him and cheated him. His wife grew anxious. Given the amount

of money Govind was spending, she was sure that they would soon be paupers.

One day, widely respected sage who had been to the Himalayas, came to their town. Govind asked him about the potion. To his surprise the sage answered, "I have learnt how to brew such a potion. But it is a difficult process." Govind insisted Govind, hardly able to believe his luck. "You have to collect the dew which settles on the leaves of a banana tree every morning during winter. There is a condition though. The tree should be planted and watered regularly with your own hands. Store the collected dew in an earthen vessel and when you have five litres bring it to me. I will recite a sacred mantra to transform the dew into the potion. A drop of the potion will be sufficient to change any object into gold." Govind was worried. "Winter lasts only for a few months, in the year. It will take many years to collect the dew." "You can plant many trees as you want," replied the sage. Govind went home and after talking to his wife began clearing the large fields which had been lying vacant for years. He planted rows of banana saplings. He tended them with great care. His wife helped him too. She would take the banana crop to market and get a good price. Over the years the plantation grew and finally after six years Govind had five litres of dew. He went to the sage who smiled, uttered the mantra and sprinkled a few drops of dew on a copper vessel. To Govind's dismay, nothing happened. "You have cheated me!" he shouted at the sage.

The sage however smiled. Govind's wife then came forward with a box. The sage opened it and revealed stacks of gold coins inside. Turning to Govind he said, "You worked hard on your land and created a plantation. Your wife sold the produce in the market. It was your hard work which created this wealth, not magic. If I had told you this earlier, you would not have listened". Govind understood the wisdom behind the sage's words and worked even harder from that day on.

18. Why did Govind's father give him large plots of land?

- a) It was his way of installing a sense of responsibility in his son.
- b) Govind was his only son and sole heir.
- c) To provide Govind with sufficient funds to pursue his interest of discovering a magic potion.
- d) He wanted Govind to continue to look after the tenants.

19. Which of the following can be said about the sage?

- a) He was cunning and plotted with Govind's wife to cheat him.
- b) He had no magical powers as such and used to swindle people.
- c) He was a good judge of people.
- d) He did not deserve his good reputation.

20. Why was Govind's wife worried?

- a) Govind had no knowledge of farming and could not cultivate the land he had inherited from his father.
- b) Govind had no friends because he was obsessed with finding a potion which would turn any thing into gold.
- c) Govind was only interested in studying under different sages and neglected his family duties.
- d) Since Govind had devoted all his time and wealth to finding a magic potion they would soon be poor.

21. Why did Govind's wife help him in the fields?

- i) To support her husband in his endeavour to find a magic potion.
  - ii) The sage had advised her to help her husband succeed.
  - iii) He needed someone to help him collect the dew
- a) only (i)                      b) only (ii)  
c) both (i) & (ii)              d) none of the above

**Passage :**

As cultures and languages vanish, along with them go vast and ancient store houses of accumulated knowledge and as species disappear, along with them go not just valuable genetic

resources, but critical links in complex ecological webs. In the past couple of hundred years, humans have increased species extinction rates by as much as 10000 times the background rates that have been typical over earth's history. This is a crash that, within the scientific community, is causing a slow panic and wide belief that the dangers of biodiversity loss are woefully underestimated by most everyone outside of science. Yet even those who grasp extinction's severity have not made much of a noticeable contribution to its containment. On May 16th Zoological society of London released a report suggesting that since contemporary environmentalism emerged with the declaration of the 1st earth day in 1970, close to one third of all the wild species on earth have disappeared. Language conservationists have fared no better. Of the world's roughly 6800 languages, half are expected to disappear before the end of the century. Our collective failure to recognize and impede this rampant winnowing of diversity can in part be blamed on the sheer rapidity with which it has advanced.

**22. Consider the following statements :**

- i) Species extinction rates have increased uniformly in the past couple of hundred years
- ii) The scientific community has underestimated the dangers of biodiversity loss.

Which of the above statements are valid according to the passage ?

- a) Only (i)
- b) Only (ii)
- c) Both (i) and (ii)
- d) Neither (i) nor (ii)

**23. According to the passage, contemporary environmentalists have-**

- a) Not grasped extinction's severity
- b) Fared better than language conservationists have
- c) Not made a noticeable contribution to containing species extinction
- d) Bee supported by the scientific community

**24. The passage thematically centers on -**

- a) How diversity is getting reduced at an alarm-

- ing rate ?
- b) How ecological webs can be protected ?
- c) the role of science in checking biodiversity loss
- d) the way ahead for contemporary conservationists

**Passage:**

Strange, unfathomable happiness of thinking of seeking knowledge for its own sake! So much of our life is spent in solving problems to avoid immediate pain or to bring immediate profit, so much of our training is aimed at bringing practical or pragmatic effect designing and running machines, buying, selling, cooking, furnishing, investing, spending, so many worthy results are obtained by purposeful planning and directed thinking that we forget how true and inexhaustible is the happiness of pure knowing. Everyone has tasted it. It is born in children. It goes to school with them, and is too often killed there by tired or practical teachers. But in some, it survives and unlike other delights it endures for life. To spend 50 or 60 years in studying the structure of fishes or relation between logic and language, the history of Incas or the rules of comets, geometry of Non Euclidean space, the literature or the anatomy of the brain, to acquire, systematize and record new knowledge of any subject without expectation of benefit making except by extending its range of understanding - that is to pass a happy and valuable life, usually tempered at close by regret that another 50 years could not be added, in which to learn more and still more. It is the purest and least selfish satisfaction known to man, except those of creating a work of art and healing the sick. It is, Aristotle said, to share the activity of God himself, his eternal life of pure contemplation.

25. This paragraph is about -
- a) Children's innate desire for knowledge
  - b) The happiness of seeking pure knowledge
  - c) The desire for knowledge inherent in all men and women
  - d) The need for practical knowledge

26. "Everyone has tasted it" is mentioned in the first paragraph. It here refers to
- a) Directed thinking
  - b) Cooking
  - c) Happiness is pure knowing
  - d) Pure knowing

27. According to writer, very little human life is spent ...?
- a) In pragmatic thinking
  - b) In problem solving
  - c) In acquiring knowledge per se
  - d) In the purposeful study of various projects

28. "to spend 50 or 60 yrs ... in which to learn more and still more". The illustrations in the passage are examples of subjects that ...?
- a) Have no direct relevance to the welfare of man
  - b) May be studied for their practical relevance or for the sake of knowledge
  - c) Have direct relevance to the welfare of man
  - d) Can be studied only for the sake of knowledge

**Directions :Solve the following questions**

29. A. All birds are cats.  
 B. Some cats are lions.  
 C. Some lions are birds.  
 D. Some cats are not birds.  
 E. All cats are lions.  
 F. No cats are lions.

Which of the following sequence follow the correct statements and their conclusion?

- a) EAC
- b) BCD
- c) ABC
- d) EDC

30. A tradesman allows a discount of 15% on the written price. How much above cost price must he mark his goods to gain 19% ?

- a) Rs. 120 /-
- b) Rs. 140 /-
- c) Rs. 180 /-
- d) Rs. 200 /-

31. A speaks truth in 60% of cases and B in 70% of cases. In what % cases are they likely to contradict each other in stating the same fact

- a) 50%
- b) 54%

- c) 46%                      d) 60%

32. The number of pieces of 0.5 cm in diameter and 15 cm long that can be made out of metal block of 15 cm long and 1.5 cm in diameter is

- a) 9                              b) 18  
c) 27                              d) 3

33. Some people can complete a work in 10 days, 5 people did not turn up, rest completed the work in 12 days. The original number of people is

- a) 20                              b) 30  
c) 40                              d) 50

34. The average age of family of five members is 22 years. If the age of youngest is 10 years. The average age of family prior to the birth of youngest member is

- a) 20 years                      b) 15 years  
c) 22 years                      d) None of the above

35. Seven men A,B,C,D,E,F & G are standing in queue in that order. Each one is wearing a cap of different colour like violet, indigo, blue, green, yellow, orange and red. D is able to see in front of him green and blue but not violet. E can see violet & yellow but not red, G can see caps of all colours other than orange. If E is wearing an indigo coloured cap, then the colour of the cap worn by F is

- a) Blue                              b) Violet  
c) Red                                d) Orange

36. Find the missing term of the following series: 11, 12, 16, 25, 41, \_

- a) 66                              b) 68  
c) 70                              d) 72

37. At 10:30 am, what is the angle between hour hand and minute hand of a clock?

- a) 145                              b) 165  
c) 135                              d) 155

38. I am facing south. I turn  $90^\circ$  in anticlockwise direction and then  $135^\circ$  in the same direction and then  $270^\circ$  clockwise. In which direction

am I facing now?

- a) North west                      b) South west  
c) North east                      d) south east

39. How many four digit numbers can be formed using digits 0,1,2,3,4 such that

- i) Repetition of digits is allowed.  
ii) Repetition of digits is not allowed.

- a) 500, 96                      b) 125,96  
c) 500,48                      d) 125,48

40. A box contains 25 cards marked 1 to 25. One card is drawn at random. Find the probability that it is marked with a number multiple of 4 or 7.

- a)  $1/25$                               b)  $1/5$   
c)  $9/25$                               d)  $11/25$

41. Priti scored more than Rahul. Yamuna scored as much as Divya. Lokita scored less than Manju. Rahul scored more than Yamuna. Manju scored less than Divya. Who scored the lowest ?

- a) Priti                              b) Rahul  
c) Yamuna                              d) Lokita

42. Six persons are sitting in a circle facing the centre of the circle. Parikh is between Babita and Narinder. Asha is between Chitra and Pankaj. Chitra is to the immediate left of Babita. Who is to the immediate right of Babita ?

- a) Chitra                              b) Pankaj  
c) Parikh                              d) Narinder

43. **Statement & course of action :**

*Statement:* Many cases of cholera were reported from nearby village

*Course of action:*

- i) The question should be raised in legislative assembly  
ii) A team of doctors should rush to the village  
a) Only (i) follows  
b) only (ii) follows  
c) either (i) or (ii) follows  
d) neither (i) nor (ii) follows

44. **Statement and conclusion :**

*Statement:* Parents are prepared to pay price

for an elite education to their children

*Conclusion :*

- i) All parents these days are very well off
- ii) Parents have an obsessive passion for perfect development of their children through good schooling

- a) only (i) follows
- b) only (ii) follows
- c) either (i) or (ii) follows
- d) neither (i) nor (ii) follows

**45. Statement and assumption :**

*Statement :* To pass the exam you have to work hard

*Assumption (i) :* Passing the exam is desirable

*Assumption (ii) :* Hard work leads to success in the examination

- a) Only assumption (i) follow statement
- b) Only assumption (ii) follow statement
- c) Both the assumptions follow statement
- d) Neither of the two assumptions follow statement

46. Which of the following is strong argument?

*Statement :* Should the tuition fee in all PG courses be hiked considerably

*Argument :*

- i) Yes, this will bring in some sense of seriousness among the students and will improve the quality
  - ii) No, this will force the meritorious poor students to stay away from PG course
- a) Only (i)
  - b) Only (ii)
  - c) Either (i) or (ii)
  - d) Neither (i) nor (ii)

47. A butler stole wine from a bottle which contained 32% of spirit and then replaced what he stole, by wine containing only 18% spirit. The bottle was then of 24% strength only. How much of the bottle had he stolen?

- a)  $\frac{2}{7}$ <sup>th</sup> of the bottle
- b)  $\frac{4}{7}$ <sup>th</sup> of the bottle
- c)  $\frac{5}{7}$ <sup>th</sup> of the bottle
- d) None of the above

48. A & B can do a piece of work in 20 days

and 30 days respectively. They work together and A leaves 5 days before the work is finished. B finishes the remaining work alone. In how many days the total work is finished?

- a) 20 days
- b) 15 days
- c) 25 days
- d) 30 days

49. What is the angle of inclination between hands of clock at 5.15 ?

- a) 60 degrees
- b) 67.5 degrees
- c) 75 degrees
- d) 70 degrees

50. A, B & C enter into partnership with a total capital of Rs 8200 /-. A's capital is Rs 1000 /- more than B's and Rs 2000/- less than C's. What is B's share of the year's profit of Rs 2460/- ?

- a) Rs 300 /-
- b) Rs 420/-
- c) Rs 500/-
- d) Rs. 380/-

51. The sum of salaries of A & B is Rs 2100. A spends 80% of his salary and B spends 70% of his salary. If their savings are now in the ratio of 4:3, what is the salary of A?

- a) Rs 700/-
- b) Rs 1400/-
- c) Rs 500/-
- d) None of the above

52. The ratio between a two digit number and the sum of digits of that number is 4:1. If the digit in the unit place is 3 more than the digit in the tenth place, what is that number?

- a) 24
- b) 63
- c) 36
- d) None of the above

53. Two equal glasses filled with mixtures of alcohol and water in the ratio of 2:1 and 1:1 respectively were emptied into a 3rd glass. What is the ratio of alcohol and water in the 3rd glass?

- a) 7:5
- b) 5:7
- c) 2:3
- d) 4:5

54. In certain code language

- i) 'Pab bab rab' means "rose is red"
  - ii) 'rab tab sab' means "sky is blue"
  - iii) 'bab, yab, gab' means "red thick blood"
  - iv) 'gab, rab, yab' means "blood is thick"
- What is code for red ?

- a) bab  
c) yab

- b) pab  
d) rab

55. A person walked 20 km towards East and then turned towards South and walked 10 km. Then he travelled 35 km towards west and then 5 km towards North. Then he walked 15 km towards East. What is the straight distance between the starting and final positions?

- a) 5 km  
c) 15 km
- b) 10 km  
d) 20 km

56. Six ladies Neelu, Devika, Kavitha, Dharani, Dimple and Gayatri were interested in Badminton, cycling, Tennis, Swimming, riding, and Judo but not in the same order. On the basis of the information given below, Kavitha is interested in which sport?

- i) The tennis player's name does not start with D  
ii) Kavitha & Gayatri are not interested in cycling or badminton  
iii) Neelu and Devika do not like Judo or riding  
iv) Dharani and Dimple are not interested in riding or badminton  
v) Gayatri and Neelu do not care for Tennis  
vi) Dimple does not go for swimming  
vii) Dharani and Devika do not like cycling or Swimming
- a) Tennis  
c) Judo
- b) Cycling  
d) Swimming

57. A man goes by car from town A to town B. A large part of the distance is uphill and he gets a mileage of 10 km/litre of fuel. On his way back he makes 15 km / litre of fuel. The distance between the two towns is 60 km. What is the average mileage per litre of fuel ?

- a) 12 km  
c) 20 km
- b) 15 km  
d) 25 km

58. A ship 55 kms from the shore springs a leak which admits 2 tons of water in 6 minutes; 80 tons would suffer to sink her, but the pumps can throw out 12 tons an hour. Find the average rate of sailing that she may just reach the shore as she begins to sink

- a) 5 km/hr  
b) 5.5 km/hr

- c) 6 km/hr

- d) 8 km/hr

59. If I walk at 4 km/hr, I miss the bus by 10 minutes. If I walk at 5 km/hr, I reach 5 minutes before the arrival of the bus. How far should I walk to reach the bus stand?

- a) 5 km  
c) 15 km
- b) 10 km  
d) 20 km

60. A toy train crosses 210 m and 122 m long tunnels in 25 and 17 seconds respectively. Find the length of train and speed of train

- a) 35 m and 22 m/s  
b) 55 m and 20 m/s  
c) 65 m and 11 m/s  
d) 75 m and 15 m/s

61. "P" is twice as old as "R" was two years ago. If the difference between their ages is 2 years, how old is "P" today?

- a) 6 years  
c) 10 yrs
- b) 8 yrs  
d) 12 yrs

62. MAB, NEC, OIE, POG....(Next group of letters is)

- a) QPH  
c) QUI
- b) QUH  
d) QUK

63. If TABLE is coded as SZAKD, then WINDOW is coded as

- a) VHNCMV  
c) VHMCNV
- b) VHCNMV  
d) VHCMNV

64. If SHOP is coded as 4567 and HAPPY is coded as 52778, then SOAP is coded as

- a) 4267  
c) 4627
- b) 4762  
d) 4672

65. If Zoology is called as Physics, Physics is called as Botany, Botany is called as Chemistry and Chemistry is called as History, then which is the study of plants ?

- a) Zoology  
c) Physics
- b) Botany  
d) Chemistry

**Directions (Q.No. 66-68): The table given below shows a frequency distribution of the life times of 400 tubes tested of "L & M**

tube company"

Life time in hrs	Number of tubes
300 - 399	14
400 - 499	46
500 - 599	58
600 - 699	76
700 - 799	68
800 - 899	62
900 - 999	48
1000 - 1099	22
1100 - 1199	6

66. The percentage of tubes, life time of which are greater than or equal to 900 hours is

- a) 15%                      b) 19%  
c) 25%                      d) 30%

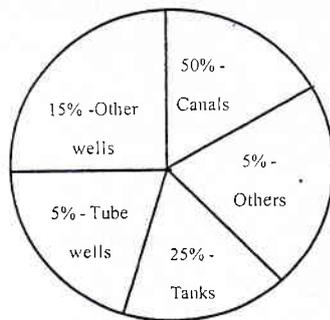
67. The percentage of tubes, life time of which are at least 500 hrs but less than 1000 hrs

- a) 50%                      b) 78%  
c) 80%                      d) 40%

68. The percentage of tubes, life time of which do not exceed 600 hrs is

- a) 20%                      b) 29.5%  
c) 35%                      d) None of the above

**Directions (Q. No. 69-70) : Net area irrigated under different sources of irrigation is given below:**



69. If the area irrigated under other sources and tube wells is 0.4 lakh hectares, area under tanks is

- a) 2 lakh hectares  
b) 1 lakh hectares  
c) 3 lakh hectares  
d) 4 lakh hectares

70. If the area irrigated under canals is 25 lakh hectares during a particular year and area irrigated under tube wells and other sources is

- a) 3 Lakh hectares  
b) 5 lakh hectares  
c) 10 lakh hectares  
d) 2.5 lakh hectares

71. A director is hiring a new assistant, and your job is to schedule interviews for the job candidates. Each interview takes 30 minutes to conduct, and 15 minute period for completion of all necessary evaluation forms is needed after each interview to evaluate the candidate. There are ten candidates applying for the position, and there are two interviewers who will each interview half of the candidates. At what time will the interviewers finish if they begin at 9 am assuming no lunch break or coffee break is taken?

- a) 12.30 pm                      b) 12.45 pm  
c) 1.30 pm                      d) 2.15 pm

72. If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is

- a) 50 km                      b) 56 km  
c) 70 km                      d) 80 km

73. The removal of hill sides and mountain tops, necessary for mining companies to extract coal quickly from deeply buried seam, destroys forests. Experts therefore recommend that coal be extracted using time consuming deep bore techniques. Because public opinion opposes coal mining, some states now allow mining companies to extract coal from any particular site for only a short period of time. The statements above, if true best support which of the following conclusions?

- a) Mining companies will continue to be able to extract coal using deep bore techniques but not by removing hill sides or mountaintops  
b) The only way to preserve forest on hill sides and mountain tops is to stop coal mining  
c) New mining techniques will be developed to make it possible to extract coal quickly without removing hills sides or mountain tops  
d) Public opinion regarding coal mining works

against forest preservation efforts.

**Directions : Choose the most appropriate course of action for the following question:**

74. You are appointed as legal advisor in private construction firm. In a certain legal matter, it comes to your knowledge that your firm's stand is false and you are being pressurized to win the case through monetary power. What would you do?

- a) Follow the instruction and use money to win the case
- b) Follow the instruction but win the case without monetary power
- c) Resign from the job
- d) Convince the management to confess the mistake

**Directions : Choose the most appropriate course of action :**

75. While driving you observed that few street smart guys are eve teasing a girl on two wheeler. She is extremely nervous but still not taking any initiative. What would you do?

- a) Do nothing
- b) Complain the matter to traffic police officer
- c) Intervene directly without complaining to police
- d) Do nothing at that time, but complain to police with proof of images taken in cell phone

**Directions : Choose the most appropriate course of action :**

76. You are waiting for your train on railway station platform. You observed that a person nearby you is carrying a bag that seems suspicious to you. What would you do?

- a) Do nothing, as it is responsibility of railway police
- b) Ask him to show his identity and content of bag
- c) Start conversation with him to confirm about my suspicion
- d) Intimate to the nearby police station

**Directions : Choose the most appropriate course of action :**

77. You are working as the head of technical department of an engineering firm. Your management asks you to reduce overhead expenses either through reduction of manpower or through salary deduction. What would you do?

- a) Deny the management citing the importance of existing team
- b) Prefer the option of deducting the salary
- c) Prefer the option of manpower deduction
- d) Take opinion from staff

78. When people predict that certain result will not take place unless certain action is taken, they believe that they have learned that the prediction is correct when the action is taken and the result occurs. On reflection however it often becomes clear that the result admits of more than one interpretation. Which of the following the best supports the claim above ?

- a) Judging the success of an action requires specifying the goal of action
- b) Judging which action to take after a prediction is made requires knowing about other actions that have been successful in similar past situations
- c) Learning whether a certain predictive strategy is good requires knowing the result using that strategy through several trials
- d) Distinguishing a correct prediction and effective action from an incorrect prediction and ineffective action is often impossible.

**Directions : Choose the most appropriate course of action:**

79. You are given a task of revival of underdeveloped areas of metropolitan city. After in depth examination, it is observed that majority of the inhabitants don't have any formal authorization and are thus living there illegally what would you do?

- a) Remove those inhabitants immediately
- b) Give a notice period for them to vacate
- c) Support the inhabitants to get formal authorization

d) Take support from respective government department so as to provide them necessary help

**Directions : Choose the least appropriate course of action for the following question:**

80. While travelling in reservation coach of train, you observe that an aged person is travelling without confirmed berth reservation. What would you do?

- a) Bribe the TT to allot berth to the old man
- b) Ask fellow passenger to adjust
- c) Give your seat
- d) Do nothing

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