

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Booklet Sr. No.



Question Booklet  
Set

Candidate's Name \_\_\_\_\_

Father's Name \_\_\_\_\_

Date of Birth :     
D D M M Y Y Y Y

Category Code\*   
(\* As given in the Admit Card)

A

OMR Response Sheet No. \_\_\_\_\_ Roll No. \_\_\_\_\_

Candidate's Signature :  
(Please sign in the box)

Total Questions : 170  
Time Allowed : 170 Minutes

### INSTRUCTIONS

1. The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant boxes out of 1 to 9 of the Optical Mark Reader (OMR) response sheet, supplied separately.
2. Use only blue or black ball point pen to fill the relevant columns on this page as well as in OMR sheet. Use of Ink pen or any other pen is not allowed.
3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.
4. Each candidate is required to attempt 170 questions in 170 minutes, except for orthopedically/visually impaired candidates, who would be given 57 extra minutes, by marking correct responses on the OMR sheet.
5. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.
6. The serial number of the new Question booklet if issued for some reason should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Question booklet.
7. The question paper booklet has 28 pages.
8. The paper consists of total 340 Marks. Each question shall carry 2 marks. There are four options for each question and the candidate has to mark the MOST APPROPRIATE answer on the OMR response sheet.
9. There is no negative marking for wrong answers or questions not attempted by the candidate.
10. The candidate **MUST READ INSTRUCTIONS BEHIND THE OMR SHEET** before start answering the Questions and check that two carbon copies attached to the OMR sheet are intact.

## SECTION A

1. Hot coffee is poured simultaneously in four metallic tumblers painted outside with different types of paints. After some time, the coffee will be found coldest in the tumbler painted
  - (a) Rough white
  - (b) Shining white
  - (c) Rough black
  - (d) Shining black
2. Scalding with steam is more severe than scalding by boiling water because
  - (a) Steam can penetrate the skin
  - (b) Steam is at a higher temperature
  - (c) Steam contains more energy than boiling water
  - (d) Steam is at a higher pressure
3. It takes much longer to cook things in the hills than in the plains, because
  - (a) Due to low atmospheric pressure in the hills the boiling point of water is raised, and therefore water takes longer to boil
  - (b) In the hills the atmospheric pressure is lower than that in the plains and therefore water boils at lower temperature
  - (c) In the hills the atmospheric temperature is low and therefore a lot of heat is lost to the atmosphere
  - (d) In the hills the humid atmosphere absorbs a lot of heat, leaving very little heat for cooking
4. People who live at high altitudes have rosy cheeks because
  - (a) Haemoglobin has an increased binding affinity for oxygen to become deep red in colour
  - (b) Red cell concentration becomes considerably above the average in response to lowered oxygen pressure
  - (c) The rate of capillary circulation increases in the skin to make it look pinkish
  - (d) All of these
5. Which one of the following amendments to the Indian Constitution empowers the President to send back any matter for reconsideration by the Council of Ministers ?
  - (a) 39<sup>th</sup>
  - (b) 40<sup>th</sup>
  - (c) 42<sup>nd</sup>
  - (d) 44<sup>th</sup>
6. Which one of the following is responsible for the preparation and presentation of Union Budget to the Parliament ?
  - (a) Department of Revenue
  - (b) Department of Economic Affairs
  - (c) Department of Financial Services
  - (d) Department of Expenditure

**7.** Consider the following :

- I. Right to education
- II. Right to social security
- III. Right to food

Which of the above is/are Human Right/Human Rights under “Universal Declaration of Human Rights” ?

- (a) I only
- (b) I and II
- (c) III only
- (d) I, II and III

**8.** Who among the following constitutes the National Development Council ?

- I. The Prime Minister
- II. The Chairman, Finance Commission
- III. Ministers of the Union Cabinet
- IV. Chief Ministers of the States

Select the correct answer using the codes given below :

- (a) I, II and III only
- (b) I, III and IV only
- (c) II and IV only
- (d) I, II, III and IV

**9.** With reference to Mission HAMMER, which of the following statement(s) is/are correct ?

- I. It is a joint mission of NASA (National Aeronautics and Space Administration) and ISRO (Indian Space Research Organisation).
- II. HAMMER stands for Hypervelocity Asteroid Mitigation Mission for Emergency Response vehicle.

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

**10.** With reference to Coastal Economic Zone, which of the following statement(s) is/are correct ?

- I. It is part of India's strategy of port-led development.
- II. India's first mega CEZ is coming up at the Jawaharlal Nehru Port.
- III. It has been approved under the National Perspective Plan of the Sagarmala Programme.

Select the correct answer using the code given below :

- (a) I only
- (b) II and III only
- (c) I and III only
- (d) I, II and III

**11.** With reference to Green Bonds, which of the following statement(s) is/are correct ?

- I. It is a fixed income instrument to raise capital for green projects.
- II. India's first internationally-listed certified green bond has been launched by Axis Bank.

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

**12.** What will happen if the Earth were to stop its rotator motion on its axis ?

- (a) There will be no seasons on the Earth.
- (b) The half sphere on the right side of its north pole will have daylight all the time.
- (c) There will be no day and night as at present.
- (d) The Earth will become a very hot planet like Mercury.

**13.** Rusting of iron is an example of

- (a) Absorption
- (b) Adsorption
- (c) Oxidation
- (d) Reduction

**14.** The structure which helps in the nutrition of the Embryo is

- (a) Yolk sac
- (b) Amniotic membrane
- (c) Crypts
- (d) Placenta

**15.** Which of the following does not form a part of the foreign exchange reserves of India ?

- (a) Gold
- (b) SDRs (Special Drawing Rights)
- (c) Foreign currency assets
- (d) Foreign currency and securities held by the banks and corporate bodies

**16.** Who coined the name 'Pakistan' ?

- (a) Muhammad Ali Jinnah
- (b) Fazlul Huq
- (c) Liaquat Ali Khan
- (d) Choudhry Rahmat Ali

**17.** Which of the following about Adultery is/are correct ?

- I. It is a civil offence.
- II. Only the wife can be accused in case of adultery.
- III. Both man and woman can be accused in the case of adultery.

Select the correct answer using the code given below :

- (a) I only
- (b) II and III
- (c) I and II
- (d) None of the above

**18.** Consider the following statements regarding the features of new draft Coastal Regulation Zone (CRZ) Notification 2018 which was recently framed by the Ministry of Environment, Forest and Climate change (MoEF&CC) :

- I. The High Tide Line (HTL) has been demarcated by the National Centre for Sustainable Coastal Management (NCSCM).
- II. Hazard line mapping has been carried out by National Disaster Management Authority.
- III. A No-Development Zone (NDZ) of 20 metres has been proposed to be stipulated for all islands close to the mainland coast.

Which of the statements given above are correct ?

- (a) I and III only
- (b) I and II only
- (c) II and III only
- (d) I, II and III

**19.** Government of India recently introduced the Model Contract Farming Act (MCFA). Consider the following statements about contract farming.

- I. Under contract farming, agriculture production does not include poultry and livestock.
- II. Under MCFA, rights or title ownership of the producer's land cannot be transferred to the buyer.
- III. The Act was drafted after the recommendations of the MCFA drafting committee under the chairmanship of Ashok Dalwai.

Which of the statements given above are correct ?

- (a) I and II only
- (b) II and III only
- (c) I and III only
- (d) All of the above

**20.** Which of the following organisation releases the Emission Gap Report?

- (a) International Union for Conservation of Nature (IUCN)
- (b) United Nations Environment Programme (UNEP)
- (c) Intergovernmental Panel on Climate Change (IPCC)
- (d) World Economic Forum

**21.** Consider the following statements regarding RIMES (Regional Integrated Multi-Hazard Early-Warning system for Asia and Africa) :

- I. It is a regional arm of United Nations Environment Programme (UNEP).
- II. It evolved mainly through Phuket Ministerial Meeting on Tsunami Early Warning Arrangements in January 2005.

Which of the statement(s) given above is/are correct?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

**22.** Which of the following is/are the benefits of Mangrove plantation ?

- I. It protects the coastline in the face of storms and rising sea levels.
- II. It absorbs carbon from the atmosphere.
- III. It absorbs fish stocks by providing safe areas for fish.

Select the correct answer using the code given below :

- (a) I only
- (b) II only
- (c) II and III
- (d) I, II and III

**23.** With reference to Irrawaddy dolphins, recently seen in the Rambha sector of Chilika lake in Orissa, consider the following statements :

- I. Irrawaddy dolphins are mainly found in the Mekong river in South-East Asia.
- II. The Irrawaddy dolphin is regarded as a sacred animal in South-East Asia.
- III. Highest number of Irrawaddy dolphins is found in Myanmar.

Which of the statement(s) given above is/are correct ?

- (a) I only
- (b) II only
- (c) I and II
- (d) I, II and III

**24.** In the context of environment agreements, consider the following statements :

- I. Doha Amendment is an amendment to the Montreal Protocol.
- II. Kigali Agreement is an amendment to the Kyoto Protocol to limit the carbon emissions.
- III. India recently ratified the Doha Amendment.

Which of the statement(s) given above is/are correct ?

- (a) I and II
- (b) II only
- (c) III only
- (d) II and III

**25.** With reference to the India State of Forest Report (ISFR) 2017, arrange the following States/Union Territories in the order of decreasing forest cover in terms of percentage geographical area :

- I. Mizoram
- II. Lakshadweep
- III. Andaman and Nicobar Islands

Select the correct answer using the code given below :

- (a) I, II, III
- (b) II, I, III
- (c) III, II, I
- (d) III, I, II

**26.** Consider the following statements :

- I. Minamata Convention prevents anthropogenic emissions and release of mercury and mercury compounds.
- II. Bonn Convention is associated with regulation of international trade in endangered species.

Which of the statement(s) given above is/are correct ?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

**27.** With reference to National Adaptation Fund on Climate Change (NAFCC), consider the following statements :

- I. The objective of the fund is to assist States and Union Territories that are particularly vulnerable to the adverse effects of climate change in meeting the cost of adaptation.
- II. National Bank for Agriculture and Rural Development (NABARD) is the national implementing agency for the implementation of projects under NAFCC.

Which of the statement(s) given above is/are correct ?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

**28.** Which of the following region(s) of India has/have been designated as biodiversity hot spots ?

- I. Eastern Himalaya
- II. Eastern Ghats
- III. Western Ghats

Select the correct answer using the code given below :

- (a) I only
- (b) I and III
- (c) III only
- (d) I, II and III

- 29.** In the India State of Forest Report (ISFR), 2017 recorded forest areas largely consist of Reserved Forests (RF) and Protected Forests (PF). Reserved forests and protected forests have been constituted under which of the following Act ?
- Biodiversity Act, 2000
  - Environment Protection Act, 1986
  - Forest (Conservation) Act, 1980
  - Indian Forests Act, 1927
- 30.** Which of the following is the State tree of Punjab ?
- Neem
  - Sheesham
  - Peepal
  - Talhi
- 31.** Graded Response Action Plan, recently in news, is related to which of the following ?
- Protection of Biodiversity
  - Massive afforestation drive
  - Pollution control
  - Strategy for rehabilitation after a natural disaster
- 32.** Which of the following are likely impacts of sudden increase in the concentration of oxides of Nitrogen ?
- It will increase red haze in the traffic.
  - It will damage the leaves of plants and retard the rate of photosynthesis.
  - It may lead to an acute respiratory disease in children.
- Select the correct answer using the code given below :
- I and II
  - II and III
  - I, II and III
  - I and III
- 33.** With reference to Coral bleaching, consider the following statements :
- It occurs when the densities of zooxanthellae decline.
  - It occurs when the concentration of photosynthetic pigments within the zooxanthellae fall.
  - Global warming is one of the factors behind coral bleaching.
- Which of the above statements are correct ?
- I and II
  - II and III
  - I, II and III
  - I and III



**34.** Recently, there has been growing concern with regard to the Black Carbon in global warming. Consider the following statements with regard to Black Carbon :

- I. It can absorb a million times more energy than carbon dioxide (CO<sub>2</sub>).
- II. It remains in the atmosphere for a very short period of time i.e. one to four weeks.
- III. The climate effects of Black Carbon are regional.
- IV. Incomplete combustion of fossil fuels results into formation of Black Carbon.

Which of the above statements are correct ?

- (a) I and II
- (b) II and III
- (c) I, II and III
- (d) I, II, III and IV

**35.** Which of the following forests is known as the 'Lungs of the Earth' ?

- (a) Congo Rain Forests
- (b) Amazon Forests
- (c) Tropical Deciduous Forests
- (d) Temperate Evergreen Forests

**36.** Which of the following plants is known as 'Terror of Bengal' ?

- (a) Congress grass
- (b) Lantana
- (c) Water hyacinth
- (d) Alfa-alfa

**37.** Consider the following statements :

- I. The first nation-wide forest conservation policy was adopted by Government of India in 1988.
- II. India's forest policy aimed at bringing 33 percent of geographical areas of India under forest cover.

Which of the statement(s) given above is/are correct ?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

**38.** With reference to TRAFFIC, a conservation organisation, consider the following statements :

- I. It is a joint programme of WWF and IUCN for wildlife trade monitoring.
- II. It is a non-governmental organisation working on trade in wildlife in the context of both biodiversity conservation and sustainable development.
- III. Its global network is research-driven, action-oriented, and committed to delivering innovative and practical solutions to wildlife trade issues based on the latest information.

Which of the above statement(s) is/are correct ?

- (a) I only
- (b) II and III only
- (c) I and II only
- (d) I, II and III

**39.** Consider the following statements regarding 'National Tiger Conservation Authority (NTCA)' :

- I. NTCA is a statutory body under Ministry of Environment, Forest and Climate Change.
- II. NTCA is constituted under Environmental (Protection) Act, 1986.
- III. NTCA is chaired by the Prime Minister.
- IV. NTCA does not intervene in the Project Tiger.

Which of the above statement(s) is/are correct ?

- (a) I only
- (b) III and IV only
- (c) II and III only
- (d) I, II, III and IV

**40.** With reference to 'Jatropha Curcas', consider the following statements :

- I. Biodiesel in India is mostly produced from the oils extracted from its seeds.
- II. The plant is indigenous to parts of Central America.
- III. It is found to grow at an elevation above 3000 feet as it is a coniferous tree.
- IV. It is an inedible oilseed.

Which of the statement(s) given above is/are correct ?

- (a) I only
- (b) II, III and IV only
- (c) I, II and III only
- (d) I, II, III and IV

**41.** Which amongst the following was **not** annexed to the British empire under subsidiary alliance ?

- (a) Hyderabad
- (b) Mysore
- (c) Jodhpur
- (d) Jhansi

**42.** Consider the following statements :

- I. Ranjit Singh came to power in 1792.
- II. Gulab Singh purchased Kashmir from Ranjit Singh.

Which of the following statement(s) given above is/are correct ?

- (a) Only I
- (b) Only II
- (c) Both I and II
- (d) None of these

**43.** Consider the following about the Regulating Act of 1773.

- I. The Act was based on the report of a committee headed by the British Prime Minister, Lord North.
- II. The Act also led to the establishment of a Supreme Court at Calcutta.
- III. As per this Act the Governor of Bengal was nominated as the Governor-General of all three presidencies of Calcutta, Bombay and Madras.

Which of the statements given above are correct ?

- (a) Both I and II
- (b) Both II and III
- (c) Both I and III
- (d) I, II and III

44. Which of the following act/regulation enacted by Charles Metcalfe earned him the epithet, 'Liberator of the Indian Press' ?
- Licensing Regulation, 1823
  - Press Act, 1835
  - Licensing Act, 1857
  - Registration Act, 1867
45. The 'drain of wealth theory' was the key theme of Economic Nationalism. Which of the following was **not** a part of direct drainage through the payment ?
- Home charges
  - Military charges
  - Guaranteed interest payment on railway investments
  - None of the above
46. Out of all the biosphere reserves in India, nine have been recognised on the world network by UNESCO. Which one of the following is **not** one of them ?
- Gulf of Mannar
  - Kanchenjunga
  - Nanda Devi
  - Sunderbans
47. The area of Chicago in America is witnessing unprecedented low temperature in the winter of 2019. This is being attributed to the phenomenon called
- El Niño effect
  - Jet Stream
  - La Niña effect
  - Polar Vortex
48. What is the total forest cover of Punjab ?
- 4.62%
  - 6.12%
  - 2.24%
  - 5%
49. "Pawan Guru Paani Pita Mata Dharat Mahat \_\_\_\_\_" written by Guru Nanak Dev Ji is a part of which of the following :
- Adi Granth
  - Jap Ji Sahib
  - Rehras Sahib
  - Anand Sahib
50. The Quit India campaign was launched by the Indian National Congress after the failure of
- Cripps Mission
  - Simla Conference
  - Cabinet Mission
  - None of the above

## SECTION B

### **Directions (Questions No. 51 to 53) :**

*Choose the correct synonym for the following words :*

#### **51. Opprobrium**

- (a) Flattery
- (b) Admire
- (c) Beauty
- (d) Criticism

#### **52. Conundrum**

- (a) Flute
- (b) Drum
- (c) Confusion
- (d) Loud

#### **53. Perplex**

- (a) Puzzle
- (b) Listen
- (c) Bemuse
- (d) Pose

### **Directions (Questions No. 54 to 56) :**

*Choose the appropriate antonyms for the following words :*

#### **54. Vicious**

- (a) Use
- (b) Benevolent
- (c) Exorbitant
- (d) Converse

#### **55. Discipline**

- (a) Confusion
- (b) Order
- (c) Precious
- (d) Converse

#### **56. Narrow**

- (a) Vast
- (b) Polar
- (c) Contradictory
- (d) Lopsided

**Directions (Questions No. 57 to 60) : Fill in the blanks with appropriate form of verb :**

**57.** The boy has \_\_\_\_\_ across the Indus.

- (a) swim
- (b) swum
- (c) swimmmed
- (d) swummed

**58.** He has \_\_\_\_\_ hold of the wrong end of the strick.

- (a) get
- (b) gotten
- (c) got
- (d) getted

**59.** I have \_\_\_\_\_ a million tears.

- (a) weeped
- (b) weep
- (c) weeping
- (d) wept

**60.** He \_\_\_\_\_ me for my brother.

- (a) mistaked
- (b) mistake
- (c) mistook
- (d) mistaken

**Directions (Questions No. 61 to 65) : Fill in the blanks with appropriate prepositions :**

**61.** The river flows \_\_\_\_\_ the bridge.

- (a) under
- (b) over
- (c) across
- (d) of

**62.** I have known him \_\_\_\_\_ a long time.

- (a) since
- (b) of
- (c) for
- (d) in

**63.** It is 10 o'clock \_\_\_\_\_ my watch.

- (a) by
- (b) in
- (c) on
- (d) at

**64.** Do not cry \_\_\_\_\_ spilt milk.

- (a) for
- (b) over
- (c) at
- (d) of

**65.** The public are cautioned \_\_\_\_\_ pickpockets.

- (a) by
- (b) for
- (c) against
- (d) at

**Directions (Questions No. 66 to 70) :**  
Choose the appropriate conjunctions for the following :

- 66.** I am in the right, \_\_\_\_\_ you are in the wrong.  
(a) yet  
(b) but  
(c) either  
(d) that
- 67.** Henry Bradshaw knew more about printed books \_\_\_\_\_ any man living.  
(a) then  
(b) and  
(c) than  
(d) although
- 68.** Give every man thy ear \_\_\_\_\_ few thy voice.  
(a) either  
(b) although  
(c) but  
(d) as
- 69.** \_\_\_\_\_ I were personally your enemy, I might pity and forgive you.  
(a) But  
(b) If  
(c) As  
(d) Either
- 70.** Massacres \_\_\_\_\_ disorder never have the way to peace.  
(a) than  
(b) but  
(c) of  
(d) and

**Directions (Questions No. 71 to 75) :**  
Write the following sentences in passive form :

- 71.** Macbeth hoped to succeed Duntan.  
(a) Duntan succeeded Macbeth.  
(b) Duntan hoped to succeed Macbeth.  
(c) It was hoped by Duntan to succeed Macbeth.  
(d) It was hoped by Macbeth that he would succeed Duntan.
- 72.** Who taught you Urdu ?  
(a) Urdu was taught to you.  
(b) Urdu is being taught to you.  
(c) By whom were you taught Urdu ?  
(d) You will be taught Urdu.
- 73.** Do not insult the weak.  
(a) Never insult the weak.  
(b) The weak are not insulted.  
(c) The weak is being insulted.  
(d) Let not the weak be insulted.
- 74.** Somebody has put out the light.  
(a) The light has been put out.  
(b) Let the light be put out by somebody.  
(c) Somebody puts out the light.  
(d) Somebody may put out the light.
- 75.** Did you never hear that name ?  
(a) Have you never heard that name ?  
(b) Did you hear that name never ?  
(c) Was that name never heard ?  
(d) Wasn't that name never heard ?

**Directions (Questions No. 76 to 80) :**  
*Express the following sentences in a negative form without changing their meaning :*

- 76.** I always love my country.  
(a) I seldom love my country.  
(b) I don't always love my country.  
(c) I never love my country.  
(d) I am never without love for my country.
- 77.** Only a millionaire can afford such extravagance.  
(a) None can afford such extravagance.  
(b) None but a millionaire can afford such extravagance.  
(c) All can afford such extravagance.  
(d) No millionaire can afford such extravagance.
- 78.** He failed to notice me when he came in.  
(a) He did not notice me when he came in.  
(b) He always noticed me.  
(c) He noticed me when he didn't come in.  
(d) He didn't come in when he noticed me.
- 79.** He is sometimes foolish.  
(a) He is never foolish.  
(b) He is not always foolish.  
(c) He is always wise.  
(d) He is not always wise.
- 80.** He was greater than Aurangzeb.  
(a) Aurangzeb was never great.  
(b) He was never greater than Aurangzeb.  
(c) Aurangzeb is not at all great.  
(d) Aurangzeb was not so great as he.

**Directions (Questions No. 81 to 85) :**  
*Transform the following exclamatory sentences into assertions :*

- 81.** What a delicious meal!  
(a) It was not a very delicious meal.  
(b) It was a very delicious meal.  
(c) What a great meal!  
(d) How great was the meal!
- 82.** If only I knew more people!  
(a) I want to know all people.  
(b) I wish to know everyone.  
(c) Hence I wish I knew all!  
(d) I wish I knew more people.
- 83.** Shame on you to use a poor cripple so!  
(a) It is shameful of you to use a poor cripple so.  
(b) It is not bad for you to use a poor cripple.  
(c) How bad it is for you to use a poor cripple!  
(d) A poor cripple can be used so.
- 84.** What might be done, if men were wise!  
(a) How I wish men were wiser.  
(b) Great things might be done if men were wise.  
(c) I wish men were wiser.  
(d) How great it would be if men were wise!
- 85.** O what a fall was there, my countrymen!  
(a) My countrymen never fell.  
(b) My countrymen are ready to fall.  
(c) There was a great fall, my countrymen.  
(d) O what a fall for my countrymen!

## SECTION C

**Directions (Questions No. 86 to 88) :** Five friends are sitting on a bench in the following order :

- I. P is sitting next to Q, and R is next to S.
- II. S is not sitting with T; T is on the extreme left hand side of the bench and R is on second position from the right hand side.
- III. P is on the right hand side of Q and to the right side of T.
- IV. P and R are sitting together.

**86.** Who is sitting exactly in the middle ?

- (a) Q
- (b) R
- (c) P
- (d) T

**87.** Who is sitting to the left of Q ?

- (a) S
- (b) T
- (c) R
- (d) P

**88.** Who is on the extreme right hand side of the bench ?

- (a) R
- (b) T
- (c) Q
- (d) S

**Directions (Questions No. 89 to 92) :** Study the following information carefully and answer the questions given below :

Seven colleagues A, H, J, S, V, D and R work in four different departments of an organisation, i.e. marketing, finance, HR and IT. Not more than two work in any department. Each of them is wearing a different coloured shirt, which is white, blue, cream, peach, black, yellow and pink, not necessarily in that order. A works with J in the marketing department and is not wearing white coloured shirt. V is wearing yellow coloured shirt and does not work in the finance department. H works with S in the same department and is wearing black shirt. Only D works in the HR department. R is in the same department as V. None in the marketing or IT department is wearing cream shirt. J is wearing peach shirt. The one who is wearing the pink shirt is working in the finance department.

**89.** Who is wearing cream shirt ?

- (a) R
- (b) A
- (c) S
- (d) D

**90.** What coloured shirt S is wearing ?

- (a) Black
- (b) White
- (c) Cream
- (d) None of these

**91.** In which department is R working ?

- (a) IT
- (b) Marketing
- (c) Finance
- (d) HR

**92.** Who works in the finance department ?

- (a) V, R
- (b) A, H
- (c) S, H
- (d) None of these



**93.** Pointing to a boy, Aaliya, says, “He is the son of my grandfather’s only son.” How is the boy’s mother related to Aaliya ?

- (a) Mother
- (b) Mother-in-law
- (c) Sister
- (d) Grandmother

**94.** Pointing to a lady in the photograph, Praveen told her friend, “She is the only daughter of my mother.” How is Praveen related to the lady in the photograph ?

- (a) Brother
- (b) Mother
- (c) Nephew
- (d) Niece

***Directions (Questions No. 95 to 99) :***

*Ram walks 2 km towards North and turns to his right and walks 4 km more. He then turns to his right and walks 4 km and turns again to his right and walks another 4 km. Here he meets Renu coming from the opposite direction. They both stop here.*

**95.** After taking the first turn, in which direction was Ram going ?

- (a) South
- (b) North
- (c) West
- (d) East

**96.** If the starting point is marked ‘A’ and finishing point is marked ‘B’, what will be the distance between these points ?

- (a) 10 km
- (b) 8 km
- (c) 6 km
- (d) 2 km

**97.** From which direction was Renu coming ?

- (a) South
- (b) North
- (c) South-east
- (d) West

**98.** After taking the second turn, in which direction was Ram walking ?

- (a) West
- (b) North
- (c) South-east
- (d) South

**99.** If Ram is to again reach the point from where he started, in which direction will he have to go from where he’s standing now ?

- (a) East
- (b) North
- (c) South-east
- (d) North-east

**100.** A tourist drives 10 km towards East and turns to the right hand and drives 3 km. Then he drives towards West (turning to his right) 3 km. He then turns to his left and drives 2 km. Finally he turns to his right and travels 7 km. How far is he from his starting point and in which direction would he be ?

- (a) 10 km, East
- (b) 9 km, North
- (c) 8 km, West
- (d) 5 km, South

**Directions (Questions No. 101 to 106) :** In each of the following questions, there are four choices (a) to (d). Three of them are alike and one is different. Find the odd-one out.

- 101.** (a) Hitch  
(b) Barrier  
(c) Impediment  
(d) Help
- 102.** (a) Heroic  
(b) Cowardly  
(c) Bold  
(d) Valiant
- 103.** (a) Solvent  
(b) Bust  
(c) Penniless  
(d) Bankrupt
- 104.** (a) Injure  
(b) Abuse  
(c) Praise  
(d) Maltreat
- 105.** (a) Comprise  
(b) Exclude  
(c) Embrace  
(d) Extensive

- 106.** (a) Withhold  
(b) Confer  
(c) Grant  
(d) Accord

**Directions (Questions No. 107 and 108) :** In the given sequences some letters are missing which are given in that order as one of the four alternatives under it. Find that correct alternative in each question.

- 107.** c \_ bba \_ cab \_ ac \_ ab \_ ac  
(a) bcacb  
(b) babcc  
(c) abcbe  
(d) acbcb
- 108.** m \_ nm \_ n \_ an \_ a \_ ma \_  
(a) amammn  
(b) aammnn  
(c) ammanm  
(d) aamnan

**Directions (Questions No. 109 and 110) :** In each part of the series, there is a combination of capital and small letters with certain letters, skipped/and/or repeated. Find the correct answer indicating what comes next in the series.

- 109.** ACF acf G ??  
(a) IL gi I  
(b) JL gi l  
(c) IL gil  
(d) LL gl i
- 110.** accce ACCCE ??  
(a) GJJJK fjijk  
(b) fhfhj FHHHJ  
(c) FHHHJ fhfhj  
(d) Giiik GIIK

**Directions (Questions No. 111 to 115) :**  
*Find the missing term.*

**111.** 15, 45, ?, 405

- (a) 90
- (b) 75
- (c) 135
- (d) 51

**112.** 13, 17, 30, 47, 77, ?, 201

- (a) 117
- (b) 124
- (c) 98
- (d) 156

**113.** 21, 25, 34, 50, ?, 111, 160

- (a) 86
- (b) 72
- (c) 75
- (d) 59

**114.** 0, 3, 8, 15, ?, 35, 48

- (a) 26
- (b) 24
- (c) 22
- (d) 20

**115.** 128, ?, 82, 62, 44, 28

- (a) 99
- (b) 104
- (c) 109
- (d) 106

**Directions (Questions No. 116 and 117) :**  
*Select from the answer choices an appropriate letter to replace the question mark and continue the series.*

**116.** W U R N I ?

- (a) H
- (b) F
- (c) G
- (d) C

**117.** B E I L P ? W

- (a) P
- (b) Q
- (c) R
- (d) S

**118.** In a certain code, PEAK is written as 3512 and DINE is written as 6895. How is KIND written in that code ?

- (a) 2396
- (b) 2986
- (c) 2896
- (d) 2596

**119.** In a certain code, TERMINAL is written as SDQLJOBM. How is CREDIBLE written in that code ?

- (a) BQDCJCMF
- (b) DSFEJCMF
- (c) BQDCHAKD
- (d) DSFEHAKD

**120.** How many such letters are there in the word ORIENTAL, each of which is as far away from the beginning of the word as when they are rearranged alphabetically ?

- (a) None
- (b) One
- (c) Two
- (d) Three

**121.** Mohan is thirteenth from the left end in a row of children. Prabir is twelfth from the right end and eighteenth from the left end. How many children are towards the right of Mohan in that row ?

- (a) 12
- (b) 18
- (c) 17
- (d) None of these

**122.** Among P, M, R, T and J, M is older than R and T. J is older than M and is not the oldest. Who is the youngest ?

- (a) R
- (b) T
- (c) R or T
- (d) Data inadequate

**Directions (Questions No. 123 to 127) :**  
*Study the following arrangement carefully and answer the questions given below.*

W 1 5 E J R 2 M A 9 T K U N 4 B I 8 D H 3  
F 6 P Z 7 Q

**123.** Which of the following is the seventh to the left of 4 ?

- (a) M
- (b) A
- (c) F
- (d) 3

**124.** Which of the following is exactly in the middle between 9 and H ?

- (a) U
- (b) B
- (c) N
- (d) 4

**125.** How many such numbers are there, each of which is immediately preceded by a vowel ?

- (a) None
- (b) One
- (c) Two
- (d) Three

**126.** How many such vowels are there, each of which is immediately preceded and also immediately followed by a consonant ?

- (a) None
- (b) One
- (c) Two
- (d) Three

**127.** How many such consonants are there, each of which is immediately preceded by a number and immediately followed by a vowel ?

- (a) None
- (b) One
- (c) Two
- (d) Three

**Directions (Questions No. 128 to 132) :**  
*Read the following information carefully and answer the questions given below it.*

In a car exhibition, seven cars of seven different companies viz. Cadillac, Ambassador, Fiat, Maruti, Mercedes, Bedford and Fargo were displayed in a row, facing east such that :

- I. Cadillac car was to the immediate right of Fargo.
- II. Fargo was fourth to the right of Fiat.
- III. Maruti car was between Ambassador and Bedford.
- IV. Fiat, which was third to the left of Ambassador car, was at one of the ends.

**128.** Which of the following was the correct position of the Mercedes ?

- (a) Immediate left of Bedford
- (b) Between Bedford and Fargo
- (c) Fourth to the right of Maruti
- (d) None of these

**129.** Which of the following is definitely true ?

- (a) Fargo car is between Ambassador and Fiat
- (b) Cadillac car is to the immediate left of Mercedes
- (c) Fargo is to the immediate right of Cadillac
- (d) Maruti is fourth to the right of Mercedes

**130.** Which cars are on the immediate either side of the Cadillac car ?

- (a) Ambassador and Maruti
- (b) Maruti and Fiat
- (c) Fiat and Mercedes
- (d) None of these

**131.** Which of the following is definitely true ?

- (a) Maruti is to the immediate left of Ambassador
- (b) Bedford is to the immediate left of Fiat
- (c) Bedford is at one of the ends
- (d) Fiat is second to the right of Maruti

**132.** Which of the following groups of cars is to the right of the Ambassador car ?

- (a) Cadillac, Fargo and Maruti
- (b) Maruti, Bedford and Fiat
- (c) Mercedes, Cadillac and Fargo
- (d) Bedford, Cadillac and Fargo

***Directions (Questions No. 133 to 135) :***

*Study the following information carefully and answer the questions given below :*

In a building there are thirteen flats on three floors – II, III and IV. Five flats are unoccupied. Three managers, two teachers, two lawyers and one doctor occupy the remaining flats. There are at least three flats on any floor and not more than six flats on any floor. No two persons of the same profession stay on any floor. On the II floor, out of four flats, one occupant is the lawyer and he has only one neighbour. One lawyer lives one floor below the other. The doctor is not the neighbour of any of the lawyers. No flat is unoccupied on the III floor.

**133.** How many flats are occupied on the IV floor ?

- (a) Two
- (b) Three
- (c) Four
- (d) None of these

**134.** How many flats are there on the III floor ?

- (a) Three
- (b) Four
- (c) Five
- (d) None of these

**135.** What is the combination of occupants on the II floor ?

- (a) Lawyer, Teacher
- (b) Manager, Teacher
- (c) Manager, Doctor
- (d) Lawyer, Manager

## SECTION D

**136.** Which term of the AP : 21, 18, 15, .... is – 81 ?

- (a) 31
- (b) 33
- (c) 34
- (d) 35

**137.** How many two-digit numbers are divisible by 3 ?

- (a) 30
- (b) 35
- (c) 37
- (d) 42

**138.** How many multiples of 4 lie between 10 and 250 ?

- (a) 50
- (b) 60
- (c) 70
- (d) 75

**139.** A solid toy is in the form of a hemisphere surmounted by a right circular cone. The height of the cone is 2 cm and the diameter of the base is 4 cm. If a right circular cylinder circumscribes the toy, find the difference of the volumes of the cylinder and the toy. (Take  $\pi = 3.14$ )

- (a)  $24 \text{ cm}^3$
- (b)  $24.12 \text{ cm}^3$
- (c)  $25 \text{ cm}^3$
- (d)  $25.12 \text{ cm}^3$

**Directions (Questions No. 140 to 142) :** A box contains 3 blue, 2 white, and 4 red marbles. A marble is drawn at random from the box.

**140.** What is the probability that it will be white ?

- (a)  $1/9$
- (b)  $2/9$
- (c)  $4/9$
- (d)  $2/3$

**141.** What is the probability that it will be blue ?

- (a)  $2/3$
- (b)  $4/9$
- (c)  $1/3$
- (d)  $7/3$

**142.** What is the probability that it will be red ?

- (a)  $1/3$
- (b)  $4/9$
- (c)  $2/9$
- (d)  $2/3$

**Directions (Questions No. 143 and 144) :**

*The total expenditure per month of a household consists of a fixed rent of the house and mess charges depending upon the number of people sharing the house. The total monthly expenditure is ₹ 3900 for 2 people and ₹ 7500 for 5 people.*

**143.** Find the rent of the house.

- (a) ₹ 1300
- (b) ₹ 1400
- (c) ₹ 1500
- (d) ₹ 1600

**144.** Find the mess charges per head per month.

- (a) ₹ 1100
- (b) ₹ 1200
- (c) ₹ 1300
- (d) ₹ 1400

**Directions (Questions No. 145 and 146) :**

*A man starts his job with a certain monthly salary and earns a fixed increment every year. His salary was ₹ 1500 after 4 years of service and ₹ 1800 after 10 years of service.*

**145.** What was his starting salary ?

- (a) ₹ 1200
- (b) ₹ 1300
- (c) ₹ 1400
- (d) ₹ 1500

**146.** What is the annual increment ?

- (a) ₹ 30
- (b) ₹ 40
- (c) ₹ 50
- (d) ₹ 60

**147.** One year ago, a man was 8 times as old as his son. Now his age is equal to the square of his son's age. Find their present ages.

- (a) Present age of son 4 years,  
Present age of man 46 years
- (b) Present age of son 5 years,  
Present age of man 47 years
- (c) Present age of son 6 years,  
Present age of man 48 years
- (d) Present age of son 7 years,  
Present age of man 49 years

**148.** The sum of ages of a father and his son is 45 years. Five years ago, the product of their ages (in years) was 124. Determine their present ages.

- (a) Father's present age 40 years,  
Son's present age 5 years
- (b) Father's present age 39 years,  
Son's present age 6 years
- (c) Father's present age 37 years,  
Son's present age 8 years
- (d) Father's present age 36 years,  
Son's present age 9 years



**149.** Seven years ago Varun's age was five times the square of Swati's age. Three years hence Swati's age will be two-fifth of Varun's age. Find their present ages.

- (a) Swati's present age 8 years, Varun's present age 26 years
- (b) Swati's present age 9 years, Varun's present age 27 years
- (c) Swati's present age 10 years, Varun's present age 28 years
- (d) Swati's present age 11 years, Varun's present age 29 years

**Directions (Questions No. 150 to 155) :**  
*Two unbiased coins are tossed simultaneously.*

**150.** Find the probability of getting two heads.

- (a)  $\frac{1}{4}$
- (b)  $\frac{1}{2}$
- (c)  $\frac{3}{4}$
- (d)  $\frac{1}{3}$

**151.** Find the probability of getting one head.

- (a)  $\frac{1}{2}$
- (b)  $\frac{1}{3}$
- (c)  $\frac{1}{4}$
- (d)  $\frac{3}{4}$

**152.** Find the probability of getting one tail.

- (a)  $\frac{1}{2}$
- (b)  $\frac{1}{3}$
- (c)  $\frac{3}{4}$
- (d)  $\frac{1}{4}$

**153.** Find the probability of getting at least one head.

- (a)  $\frac{1}{4}$
- (b)  $\frac{3}{4}$
- (c)  $\frac{1}{2}$
- (d) 1

**154.** Find the probability of getting at most one head.

- (a)  $\frac{1}{2}$
- (b)  $\frac{1}{4}$
- (c)  $\frac{3}{4}$
- (d) 1

**155.** Find the probability of getting no head.

- (a)  $\frac{1}{2}$
- (b)  $\frac{1}{4}$
- (c)  $\frac{3}{4}$
- (d)  $\frac{1}{3}$

**Directions (Questions No. 156 and 157) :**  
*A letter is chosen at random from the letters of the word 'ASSASSINATION'.*

**156.** Find the probability that the letter chosen is a vowel.

- (a)  $5/13$
- (b)  $6/13$
- (c)  $7/13$
- (d)  $8/13$

**157.** Find the probability that the letter chosen is a consonant.

- (a)  $6/13$
- (b)  $7/13$
- (c)  $8/13$
- (d)  $9/13$

**Directions (Questions No. 158 to 161) :**  
*The king, queen and jack of clubs are removed from a deck of 52 playing cards and it is well shuffled. One card is selected from the remaining cards.*

**158.** Find the probability of getting a heart.

- (a)  $13/49$
- (b)  $17/49$
- (c)  $19/49$
- (d)  $11/49$

**159.** Find the probability of getting a king.

- (a)  $1/49$
- (b)  $3/49$
- (c)  $9/49$
- (d)  $11/49$

**160.** Find the probability of getting a club.

- (a)  $6/49$
- (b)  $8/49$
- (c)  $10/49$
- (d)  $11/49$

**161.** Find the probability of getting the '10' of hearts.

- (a)  $1/49$
- (b)  $2/49$
- (c)  $3/49$
- (d)  $4/49$

**162.** There is a circular path around a sports field. Sonia takes 18 minutes to drive one round of the field, while Ravi takes 12 minutes for the same. Suppose they both start at the same point and at the same time, and go in the same direction. After how many minutes will they meet again at the starting point ?

- (a) 36 minutes
- (b) 35 minutes
- (c) 34 minutes
- (d) 40 minutes

**163.** One says, "Give me a hundred, friend! I shall then become twice as rich as you." The other replies, "If you give me ten, I shall be six times as rich as you." What is the amount of their (respective) capitals ?

- (a) ₹ 60, ₹ 180
- (b) ₹ 40, ₹ 170
- (c) ₹ 70, ₹ 140
- (d) ₹ 50, ₹ 180

**164.** The students of a class are made to stand in rows. If 3 students are extra in a row, there would be 2 rows more. Find the number of students in the class.

- (a) 40
- (b) 51
- (c) 36
- (d) 26

**165.** Find two consecutive odd positive integers, sum of whose squares is 290.

- (a) 11, 13
- (b) 9, 11
- (c) 7, 9
- (d) 13, 15

**166.** A train travels 360 km at a uniform speed. If the speed had been 5km/h more, it would have taken 1 hour less for the same journey. Find the speed of the train.

- (a) 30 km/h
- (b) 20 km/h
- (c) 10 km/h
- (d) 40 km/h

**167.** In a flower bed, there are 23 rose plants in the first row, 21 in the second, 19 in the third, and so on. There are 5 rose plants in the last row. How many rows are there in the flower bed ?

- (a) 5
- (b) 6
- (c) 10
- (d) 12

**Directions (Questions No. 168 to 170) :** A manufacturer of TV sets produced 600 sets in the third year and 700 sets in the seventh year. Assume that the production increases uniformly by a fixed number every year.

**168.** Find the production in the first year.

- (a) 550
- (b) 650
- (c) 750
- (d) 775

**169.** Find the production in the 10<sup>th</sup> year.

- (a) 550
- (b) 775
- (c) 885
- (d) 925

**170.** Find the total production in the first 7 years.

- (a) 4325
- (b) 4375
- (c) 5460
- (d) 5465

## **SPACE FOR ROUGH WORK**