

ENTRANCE EXAMINATION - 2024

Time Allowed : 2 hours

Maximum Marks : 150

INSTRUCTIONS

1. KINDLY CHECK THIS BOOKLET IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAM FOR UNPRINTED, TORN OR MISSING PAGES. IF FOUND, PLEASE GET IT REPLACED.
2. This booklet is printed in English only. You will select the response which you want to mark on the answer sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
3. Answers for essay questions must be written in ENGLISH only.
4. You have to mark all your responses only on the separate Answer Sheet provided. See directions in the answer sheet.
5. If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happen to be correct.
6. Each question from PART - A carries two mark. No negative marks for incorrect answers.
7. Part B consists of mandatory essay question. Candidates have to write the answers in the given space.
8. After you have completed filling in all your responses you should hand over the answer sheet to the invigilator.

Section	Subject	No. of Questions	Marks
PART – A	Objective type	50	100
PART – B	Descriptive type	1	50
		Total	150

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO

PART – A

50X2=100 Marks

1. Which part of Constitution of India describes the model of Welfare State?
 - (a) Fundamental Rights
 - (b) Fundamental Duties
 - (c) The Preamble
 - (d) Directive Principles of State Policy

2. The mind of the makers of the Constitution of India is reflected in which of the following?
 - (a) The Preamble
 - (b) The Fundamental Rights
 - (c) The Directive Principles of State Policy
 - (d) The Fundamental Duties

3. Consider the following statements:
 1. The orders of the Delimitation Commission in India cannot be called in question before any court.
 2. No modifications in the orders of the Delimitation Commission are permissible by the Parliament or State Legislative Assembly concerned.Which of the above statements is/are correct?
 - (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2

4. Arrange the following Committees related to the Panchayati Raj System in the chronological order:
 1. L.M. Singhvi Committee
 2. Hanumantha Rao Committee
 3. Ashok Mehta Committee
 4. P.K. Thungon CommitteeSelect the correct answer using the code given below:
 - (a) 1-2-4-3
 - (b) 3-2-1-4
 - (c) 4-3-1-2
 - (d) 3-1-4-2

5. Which of the following statements with respect to the right to have a legal aid is/are correct?
 1. Under the Constitution of India, it is given under the Directive Principles of State Policy.
 2. It is the duty of the police to inform the nearest Legal Aid Committee immediately after the arrest of a person.Select the correct answer using the code given below.
 - (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2

6. Local self-government can be best explained as an exercise in
- (a) Federalism
 - (b) Democratic decentralization
 - (c) Administrative delegation
 - (d) Direct democracy
7. Consider a situation when a minister is not a member of either House of the Parliament. Which of the following statements would be correct?
- (a) He cannot participate in the proceedings of the Houses.
 - (b) He can participate in the proceedings of the Houses but cannot take part in the voting on any Bill.
 - (c) He can participate in the proceedings of the House and take part in the voting on any Bill.
 - (d) The situation itself is impossible as to become a minister, one must have to be a Member of Parliament.
8. Which ancient Indian text is considered the oldest surviving literature of the world?
- (a) Rigveda
 - (b) Ramayana
 - (c) Mahabharata
 - (d) Arthashastra
9. Which ancient Indian emperor is known for his edicts inscribed on pillars and rocks across the Indian subcontinent?
- (a) Ashoka
 - (b) Chandragupta Maurya
 - (c) Harsha
 - (d) Kanishka
10. Arrange the following events in Indian modern history in chronological order:
- I. Indian National Congress formed.
 - II. Jallianwala Bagh massacre.
 - III. Partition of Bengal.
 - IV. India gains independence from British rule.
- Select the correct answer using the code given below.
- (a) III, I, II, IV
 - (b) II, III, I, IV
 - (c) I, III, II, IV
 - (d) III, II, I, IV
11. Identify the incorrect pair leader matched with their role during the Indian independence movement:
- (a) Jawaharlal Nehru - Advocated for complete independence
 - (b) Subhas Chandra Bose - Founded the Forward Bloc
 - (c) Vallabhbhai Patel - The first Prime Minister of independent India
 - (d) Bhagat Singh - Involved in revolutionary activities

12. Which Indian National Congress session is incorrectly matched with its significant outcome?

- (a) Lucknow Session (1916) - The formal reunion of the moderates and extremists in INC
- (b) Surat Session (1907) - Witnessed a split in the Indian National Congress
- (c) Lahore Session (1929) - Purna Swaraj
- (d) Madras Session (1887) - Foundation of the Indian National Congress.

13. Which of the following statements about the Delhi Sultanate is/are correct?

- 1. The Delhi Sultanate was established by Qutb-ud-din Aibak
- 2. The Khalji dynasty was founded by Jalal-ud-din Firuz Khalji.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 & 2
- (d) Neither 1 nor 2

14. With reference to ancient South India, Korkai, Poompuhar and Muchiri were well known as

- (a) capital cities
- (b) ports
- (c) centers of iron-and-steel making
- (d) shrines of Jain Tirthankara's

15. **Assertion:** The Sangam Age was a period of flourishing literature and cultural development in ancient South India.

Reason: The Sangam literature, composed in Tamil, provides valuable insights into the society, economy, and cultural life of the time, reflecting the patronage of kings and the contributions of poets and scholars.

Select the correct answer using the code given below.

- (a) Both the assertion and reason are true, and the reason is the correct explanation of the assertion.
- (b) Both the assertion and reason are true, but the reason is not the correct explanation of the assertion.
- (c) The assertion is true, but the reason is false.
- (d) The assertion is false, but the reason is true.

16. Which of the following countries is not located on the bank of the Black Sea?

- (a) Syria
- (b) Turkey
- (c) Georgia
- (d) Bulgaria

17. Arrange the following Indian cities from north to south:

- I. Srinagar
- II. Bhopal
- III. Visakhapatnam

- IV. Thiruvananthapuram
Select the correct answer using the code given below.
- (a) III, II, I, IV
(b) I, II, III, IV
(c) I, III, II, IV
(d) IV, III, II, I
- 18.** Variations in the length of daytime and nighttime from season to season are due to
- (a) The earth's rotation on its axis
(b) The earth's revolution round the sun in an elliptical manner
(c) Latitudinal position of the place
(d) Revolution of the earth on a tilted axis
- 19.** Which of the following countries has common borders with Israel?
- (a) Lebanon, Syria, Jordan and Egypt
(b) Lebanon, Syria, Turkey and Jordan
(c) Cyprus, Turkey, Jordan and Egypt
(d) Turkey, Syria, Iraq and Yemen
- 20.** In which of the following continent "The Andes mountain" is located?
- (a) South America
(b) North America
(c) Europe
(d) Asia
- 21.** Which one of the following pairs of islands is separated from each other by the 'Ten Degree Channel'?
- (a) Andaman and Nicobar
(b) Nicobar and Sumatra
(c) Maldives and Lakshadweep
(d) Sumatra and Java
- 22.** The Tropic of cancer passes through which of the following states?
1. Gujarat
 2. Chhattisgarh
 3. Uttar Pradesh
 4. Jharkhand
- Select the correct answer from the code given below Code
- (a) 1, 2 and 4
(b) 1, 2, 3 and 4
(c) 1, 3 and 4
(d) 2, 3 and 4
- 23.** What is meant by 'Public Good'?
- (a) A commodity produced by government
(b) A commodity whose benefits are indivisibly spread among the entire community
(c) A government scheme that benefits the poor households
(d) Any commodity that is very popular among general public
- 24.** Which of the following statements is/are correct regarding depreciation?
1. It is an annual allowance for wear and tear of capital goods.
 2. It takes into account of unexpected or sudden destruction or disuse of capital.

Select the correct answer from using the code given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

25. A "Closed economy" is an economy in which

- (a) The money supply is fully controlled
- (b) Deficit financing takes place
- (c) Only exports take place
- (d) Neither exports nor imports take place

26. Match the following:

Type of Deficit	Impacts
Revenue Deficit	current income and expenditure
Fiscal Deficit	cumulative of all the borrowings
Primary Deficit	fiscal deficit without interest liabilities

Which of the pairs given above is/are correctly matched?

- (a) No pair
- (b) Only one pair
- (c) Only two pairs
- (d) All the three pairs

27. What does 'MSP' stand for?

- (a) Minimum Supply Price
- (b) Minimum Support Price

- (c) Maximum Supply Price
- (d) Maximum Support Price

28. The money multiplier in an economy increases with which one of the following?

- (a) Increase in the Cash Reserve Ratio in the banks
- (b) Increase in the Statutory Liquidity Ratio in the banks
- (c) Increase in the banking habit of the people
- (d) Increase in the population of the country

29. Which of the following organizations brings out the publication known as 'World Economic Outlook'?

- (a) The International Monetary Fund
- (b) The United Nations Development Programme
- (c) The World Economic Forum
- (d) The World Bank

30. Which of the following could lead to inflation in the Indian economy?

1. Rising global inflation
2. Hike in interest rates by RBI
3. Devaluation of Indian Rupee by RBI

Select the correct answer using the code given below

- (a) No pair
- (b) Only one pair
- (c) Only two pairs
- (d) All the three pairs

31. The Indian Army launched 'Operation Sarvashakti' to flush out terrorist's in

- (a) Myanmar
- (b) Manipur
- (c) Jammu and Kashmir
- (d) Chhattisgarh

32. Consider the following statements regarding the Sugamya Bharat Abhiyan:

1. This programme is initiated by the Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment.
2. It aims to develop an inclusive society for persons with disabilities.
3. It has provisions of pension for persons with disabilities.

Which of the statements given above is/ are correct?

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

33. Which one of the following organization launched the James Webb Space Telescope?

- (a) JAXA
- (b) NASA
- (c) ISRO
- (d) ROSCOSMOS

34. Which of the following particles are subatomic particles?

1. Electron
2. Proton

3. Neutron

4. Muon

Select the correct answer using the code given below.

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

35. Which one of the following is related to global dimming?

- (a) Fall of atmospheric pressure due to increased particulates
- (b) Raise of atmospheric pressure due to increased particulates
- (c) Raise of temperature due to increased particulates
- (d) Fall of temperature due to increased particulates

Education with values **Passage-1**

Agriculture will for sure immensely benefit from AI applications. AI can be used to create intelligent systems which are embedded in machines that can work with higher accuracy and speed than humans and at the same time be responsive like humans. AI together with Internet of Things (IoT) and Sensor Technology can be the great enabler of precision agriculture. AI can also play a critical role along with remote sensing technology in wide scale implementation of Climate Smart Agriculture. Some of the AI Techniques like Mobile based Recommender Systems and Expert Systems can drastically increase the adoption rate of agriculture technologies like high yielding or disease resistant varieties, innovative farm implements thereby helping in

increasing farmer's income. These AI techniques can also be the enabler of the paradigm shift of location based advisory services to the personalised and context specific advisory for the millions of farmers of our country. Automation, Sensors, Drones, IoT, Solar Power aided with AI provide new opportunities for business and entrepreneurs to deliver innovative solutions as service at affordable prices to the farmers. Precision farming one another area where we can benefit from AI and it can also help farmers to maximise the space they have, to be more precise about the types of crops, weather pattern and when and where we should go for raising crops so that the cost-benefit ratio is favourable to farmers.

36. Which one of the following statements best implies the suggestion implied by the passage given above?

1. The best thing that AI can do in agriculture is to avoid drudgery and tedium from many agricultural operations so that we can put our time and efforts in much better ways of finding an array of creative AI innovations to surpass human capabilities

2. The benefit for humans from AI is raise in prosperity of agriculture and moving high in stages of development so that from primitive agrarian stage we move to developed service economy stage.

Select answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 & 2
- (d) Neither 1 nor 2

37. On the basis of above passage, following assumptions have been made:

- 1. AI is a best tool for doubling farmers income
- 2. AI can improve grading and sorting making supply chain more efficient

Which of the above assumptions are valid?

- (a) 1 only
- (b) 2 only
- (c) Both 1 & 2
- (d) Neither 1 nor 2

38. Which of the following is the most logical corollary we can make from the above passage?

- (a) AI has both non-biological and human dimensions
- (b) AI in agriculture gives rise to some ethical dilemmas
- (c) AI needs to be subsidized for small and marginal farmers
- (d) AI can bring down labour cost in farming

Passage-2

According to a study, the tropical deforestation rate is likely to climb steadily in the 2020s and 2030s and then speed up around 2040, "as areas of high forest cover in Latin America that are currently experiencing little deforestation come under greater threat". Analysis corroborates the conclusions of previous studies that reducing tropical deforestation is a sizable and low-cost option for mitigating climate change.

39. On the basis of above passage following assumptions were made:

1. Acting against tropical deforestation is cheapest way for tropical countries to fight climate change

2. Developed nations can fund developing nations for plundering their tropical timber in past

Which of the above assumptions are valid?

- (a) 1 only
- (b) 2 only
- (c) Both 1 & 2
- (d) Neither 1 nor 2

40. Which of the following could be the rational implication from the passage?

1. If carbon pricing is raised there will be high incentive to conserve carbon

2. Amazon forests are a treasure to world since tropical forest is at center of climate fight

3. Deforestation is high in tropical countries due to their poverty

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 & 3 only
- (c) 1 & 3 only
- (d) All the above

41. Consider the following arrangement that had some missing letters
aabcd_ee_bc_d_eabccc_eabbbcdea

The missing letters which complete the arrangement are:

- (a) e, a, d, d, d
- (b) e, a, a, b, c
- (c) a, b, c, d, e
- (d) e, d, c, b, a

42. Ram's birthday was on Thursday on the eighth day of February in 2009. What was the day of his birthday in 2004?

- (a) Thursday
- (b) Saturday
- (c) Monday
- (d) Wednesday

43. In a faulty compass, the East direction is shown as North. In the same compass, the South direction will be shown as:

- (a) North
- (b) West
- (c) South
- (d) None of the above

44. Consider the following statements and conclusions:

Statements:

- 1. If it rains, the streets will be wet.
- 2. The streets are not wet.

Conclusions:

- I. It did not rain.
- II. It rained.

Which of the above conclusions logically follows from the given statements?

- (a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both conclusions I and II follow
(d) Neither conclusion I nor II follows
45. Consider the following sequence of numbers: 20, 24, 33, 58, 107, ...
Which number would appear in the sequence next?
(a) 228
(b) 187
(c) 207
(d) 171
46. In a classroom, there are 48 students. The ratio of boys to girls in the classroom is 3:1. The teacher wants to divide the students into groups for a project, with each group having the same number of boys and girls. If 6 boys and 2 girls are absent on the day of the project, what is the maximum number of groups that can be formed with the remaining students?
(a) 8
(b) 9
(c) 10
(d) 11
47. In a class of 20 students, the average age of the students is 15 years. When the teacher's age is also included, the average age of the class increases by 1 year.
- What is the age of the teacher?
(a) 33
(b) 34
(c) 35
(d) 36
48. A milkman sells milk at the rate of Rs.50 per litre. Upon investigation, it was found that the milk contains 25% water. Assuming that the cost of the milk is Rs.48 per litre, what is the profit per litre made by the milkman?
(a) 12
(b) 13
(c) 14
(d) 15
49. Consider the two Statements are given followed by a Question:
Statement - 1: Investment of Chetan is Rs 91.
Statement - 2: Investment of all of them are distinct natural numbers.
Question: If the average investment of Aman, Bony, Chetan and Dev is Rs 46, whose investment is the highest among them?
Which one of the following is correct in respect of the above Statements and the Question?
(a) Statement-1 alone is sufficient to answer the question.
(b) Statement-2 alone is sufficient to answer the question.

- (c) Both Statement-1 and Statement-2 are required to answer the question.
- (d) Both Statement-1 and Statement-2 are not sufficient to answer the question.

50. In an examination of five papers, marks obtained by Pankaj are in the ratio of 4:5:6:7:8 across the five papers. Each paper carries the same marks.

Consider the two Statements are given followed by a Question:

Statement - 1: Total marks obtained by Pankaj in all the papers together is 300 marks.

Statement - 2: Lowest percentage of marks obtained by Pankaj in any of the paper of this examination is 30%

Question: In how many papers did Pankaj obtain more than 50% of the maximum marks?

Which one of the following is correct in respect of the above Statements and the Question?

- (a) Statement-1 alone is sufficient to answer the question.
- (b) Statement-2 alone is sufficient to answer the question.
- (c) Both Statement-1 and Statement-2 are required to answer the question.
- (d) Both Statement-1 and Statement-2 are not sufficient to answer the question.

PART – B

50X1=50 Marks

Write an essay on the following topic in 600 words.

1. Need for Transparency in Public Administration and how as a Government officer you can contribute to this cause?