

PAPER 1 - GENERAL STUDIES

General Instructions to the Candidates:

- i. This question Paper is descriptive type in Degree Standard.
- ii. This question Paper is printed in English version. In all matters and in case of doubt English Version is final.
- iii. There is no reservation of marks for neatness of execution and correctness of spelling in respect of this paper.

SECTION-A

(Very Short Answer Type)

Notes :

- i. Answer not exceeding 30 words.
- ii. Each questions carries three marks.
- iii. Answer any thirty questions out of thirty five questions.

UNIT I

(MODERN HISTORY OF INDIA AND INDIAN CULTURE)

1. Who is Mangal Pande ?
2. Briefly write on the Home Rule Movement.
3. What was the immediate cause for the Battle of Plassey ?
4. Write a breif note on 'Poorna Swaraj'.
5. Mention the objective of Swaraj Party.
6. Which year was the Ghadar party established? Explain its objectives.
7. Why did the Congress Ministries resigned in 1939?
8. Who is called as 'Desh Bandhu'? Give reasons for it.
9. Mention the names of 19th Century Social Reformers in India.
10. What are the effects of Wahabi Movement?

11. State the importance of Lucknow Pact-1916.
12. Why did the congress oppose the Rowlat Act?

UNIT II

(GENERAL APTITUDE AND MENTAL ABILITY)

13. Find the greatest number less than 10000 which is exactly divisible by 48, 60 and 64.
14. At what rate percent per annum at simple interest will a some of money double in 8 years?
15. An equilateral triangle is described on the diagonal of a square. What is the ratio of the area of a triangle to the squares?
16. A and B working together can finish a-piece of work in 12 days while B alone can do it in 30 days. In how many days can A alone finish the work?
17. Mention the methods of collecting Primary Data.
18. Define Mutually exclusive events with example.
19. Distiguish between Pictogram and Cartogram.
20. A bag contains 6 white and 9 black balls. What is the probability of drawing 2 balls
 - A) All the two balls are white balls
 - B) One white and one black ball?
21. What is Artificial Intelligence (AI)?
22. What are called Quarks? Explain the different varieties of particles.

UNIT III

(ROLE AND IMPACT OF SCIENCE AND TECHNOLOGY IN THE DEVELOPMENT OF INDIA AND TAMILNADU)

23. What is SQUID? Mention the applications of SQUID.
24. What are natural polymers? Give any two examples.
25. Name three sources of vitamin 'A' and mention the disease caused by it's deficiency.

26. What are monoclonal antibodies ?
27. What is Database Management System (DBMS)?
28. Define Parthenogenesis.
29. What is Biological Oxygen Demand?
30. What is 'Golden Rice'?
31. Write a short note on 'Stars'.
32. What is Remote Sensing?
33. Categorise the abusable drugs.
34. Define the term 'Multiprogramming'.
35. Write a note on Bar Coding.

SECTION-B
(Brief Answer Type)

Notes :

- i. Answer not exceeding 120 words each.
- ii. Each questions carries eight marks.
- iii. Answer any fifteen questions out of eighteen questions.

UNIT I

36. Why did the Dutch people never become a strong power in India?
37. Analyse the difference between Moderate and Extermists of the Indian National Congress.
38. Why the Non-Cooperation Movement was suspended?
39. Assess the contribution of E.V.R. to the Tamil Society.
40. Mention the services of Jyotiba Phule.
41. Write the important provisions of the Government India Act of 1935.

UNIT II

42. A cylindrical tank of diameter 35cm is full of water. If 11 liters of water is drawn off, find the drop in the water-level in the tank.
43. A man sold two horses for Rs. 990 each gaining 10% on the one and losing 10% on the other Find his total gain or loss and also its percentage.
44. Distinguish between General Purpose and Special Purpose table.
45. Two dice are rolled, what is the probability the sum of the numbers on the dice is
- A) greater than 8
 - B) neither 7 nor 11 ?
46. Explain the various generations of computers.

UNIT III

47. What is Modern ? Give its uses.
48. What do you mean by asbestos and asbestosis? Discuss the environment hazards from asbestos.
49. Outline the steps involved in gene cloning.
50. Discuss the nutritional value of SCP (Single Cell Protein).
51. Explain the advantages and disadvantages of the Remote sensing data.
52. Explain the classification of drinkers.
53. Explain in detail the "Bluetooth" and "Wifi".

SECTION-C

(Detailed Answer Type)

Notes :

- i. Answer not exceeding 250 words each.
- ii. Each questions carries fifteen marks.
- iii. Answer any two questions out of three questions.

UNIT I

54. Elucidate the reorganization of Indian States.
55. Write an essay on Civil Disobedience Movement, 1930-34.
56. Describe the factors favouring the growth of Indian Nationalism.

UNIT II

57. 2 men and 3 women working 7 hours a day finish a work in 5 days. 4 men 4 women working 3 hours a day do the same work in 7 days. Find the number of days in which the work is done by 7 men only working 4 hours a day.
58. Draw the circuit for full adder and explain the concept with truth table.

UNIT III

59. Write an essay on the uses of ultrasonic waves.
60. Discuss the various methods of using pesticides.
61. Describe physiology of urine formation in the mammalian kidney.
62. Describe the range of thallus structure in Algae.

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