General Studies
Paper-II

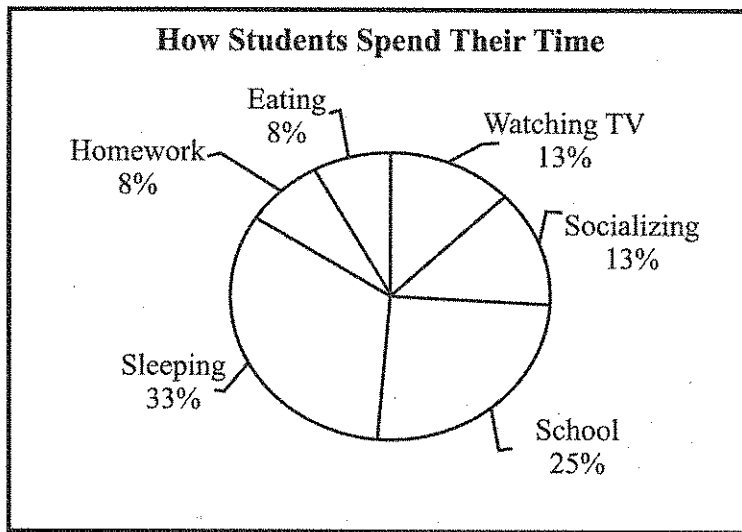**Time Allowed: Three Hours**   **Maximum Marks: 300**

Note: The figures in the margin indicate full marks for the questions.

1. Write short notes on any **three** of the following in about **75** words each:

                                                                    10×3=30

    (a) LiFi.

    (b) Japanese Encephalitis.

    (c) Paralympics.

    (d) Bio-fertilizer.

    (e) Doping in sports.

2. Write on any **two** of the following in about **100** words each: 15×2=30

    (a) Exclusive Economic Zone.

    (b) GSLV.

    (c) Drones.

3. Write on any **two** of the following in about **100** words each: 15×2=30

    (a) Security threats in North-East India with special reference to Manipur.

    (b) North Eastern Council.

    (c) Disinvestment in Public Sector Undertakings.

4. (a) (i) A student goes to the library. The probability that she checks out (a) a work of fiction is 0.40, (b) a work of non-fiction is 0.30, and (c) both fiction and non-fiction is 0.20. What is the probability that the student checks out a work of fiction, non-fiction, or both?   5

   (ii) The sum of the ages of two friends is 20 years. Four years ago, the product of their ages in years was 48. Is this situation possible? If so, determine their present ages.   5

   (b) Use the pie chart to find the best answer to each question.   2×5=10

How Students Spend Their Time

Eating 8%
Homework 8%
Watching TV 13%
Socializing 13%
Sleeping 33%
School 25%

   (i) Approximately how many hours a day are spent sleeping?

   (ii) According to this graph, for every 24 hours, about how many hours are spent socializing and watching TV?

   (iii) If a student ate ¾ (three-fourths) of their meals away from home, what % of the total day is spent eating other than at home.

   (iv) Approximately how many hours a day are spent in school and doing homework?

   (v) Approximately how much time is spent in a week on socializing?

(c) The captain of a cricket team of 11 members is 26 years old and the wicket keeper is 3 years elder to him. If the ages of these two are excluded, the average age of the remaining players is one year less than the average age of the whole team. What is the average age of the team?　　10

5. Answer any **two** of the following in about **100** words each:　　15×2=30

    (a) NITI Aayog.

    (b) World Trade Organization.

    (c) BRICS.

6. Write on any **one** of the following in about **200** words:　　30

    (a) The role of ASEAN in Asian regional integration.

    (b) BREXIT.

7. Answer any **two** of the following in about **100** words each:　　15×2=30

    (a) Public Interest Litigation.

    (b) Problem of HIV AIDS in Manipur.

    (c) River water disputes in India.

8. Write on any **one** of the following in about **200** words:　　30

    (a) Nanoscience and Nanotechnology.

    (b) Eco-Sensitive Zones (ESZs).

    (c) Management of solid and hazardous waste.

9. (a) The population of a town is 176400. It increases annually at the rate of 5%. What will be its population after 2 years? What was it 2 years ago?

10

(b) 8 women can complete a work in 10 days and 10 boys take 16 days to complete the same work. How many days will 10 women and 12 boys take to complete the work?   10

(c) A tank is filled with two taps A and B. A can fill the tank completely in 45 minutes. A and B can empty the full tank in 1 hour. If both the taps are opened alternately for 1 minute, then in how much time the empty tank will be filled completely?   10

10. Discuss any **two** of the following in about **100** words each: 15×2=30

(a) Surrogacy.

(b) GST.

(c) Role of Reserve Bank of India.