GENERAL KNOWLEDGE INCLUDING ARITHMETIC (A/A—11)

Full Marks : 200

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

(General Knowledge)

(*Marks* : 100)

1. In which Indian city are the following located?   1×5=5

   (a) Taj Mahal

   (b) Hawa Mahal

   (c) India Gate

   (d) Charminar

   (e) Raj Ghat

2. In which year did the following events take place?   1×5=5

   (a) Partition of Bengal

   (b) Dandi March

   (c) Quit India Movement

   (d) Jalianwalla Bagh Massacre

   (e) Chauri-Chaura Violence

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3. Explain the following terms :   2×5=10

Metabolism; Diphtheria; Spectrum; Nuclear Fission; Twilight.

4. Name the authors of the following books :

                                                    1×5=5

(a) *As You Like It*

(b) *Autobiography of an Unknown Indian*

(c) *Kadambari*

(d) *Jungle Book*

(e) *Pride and Prejudice*

5. Who makes the appointments to the following offices under the Indian Constitution?   1×5=5

(a) Attorney General of India

(b) Governor of State

(c) Chief Justice of India

(d) Speaker of House of People

(e) Members of a State Public Service Commission

6. Fill in the blanks :   1×10=10

(a) The number of national parties as recognised by the Election Commission is ——.

(b) The Constitution of India was adopted on ——.

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(c) The President sends his resignation, if he wants to quit his office to ——.

(d) The secular and socialist words were added to sovereign democratic republic in the Preamble of the Constitution of India by ——.

(e) The highest civilian award in India is ——.

(f) The Indian Communication Satellite INSAT-1A was launched in association with ——.

(g) Onam festival is celebrated in the State of ——.

(h) Indian Air Force has a sanctioned strength of —— squadrons.

(i) The first Indian Governor-General of India was ——.

(j) Corbet National Park is situated in the State of ——.

7. Write True or False : 1×5=5

(a) The limit of investment in the tiny units was raised from Rs 1 lac to Rs 2 lacs in the industrial policy resolution of 1977.

(b) The per capita State domestic product was the lowest in Bihar.

(c) The growth rate of Indian economy during the first Five-Year Plan at 1970–1971 prices was 3·6 per cent.

(d) The country which gave largest economic aid to India since 1950–1951 is Germany.

(e) The scheme of Regional Rural Banks was started in 1975.

8. Name the following :   1×5=5

  (a) Speaker of the Meghalaya Legislative Assembly

  (b) Union Finance Minister of India

  (c) Rajya Sabha MP from Meghalaya

  (d) Deputy Chief Minister of Meghalaya

  (e) Vice-President of India

9. Name the first Indian to receive a Nobel Prize.   1

10. Name the present United Nations Secretary General.   1

11. Lemon is a rich source of which vitamin?   1

12. Which Indian State was once known as Pataliputra?   1

13. Name the instrument used to record the intensity and origin of earthquake shocks.   1

14. Name the sea into which Narmada river falls.   1

15. Which are the States involved in Tungabhadra project?   1

16. Which project has given the name 'Operation Flood'? 1

17. Name the country which won the Rugby World Cup in 2010. 1

18. Name the civil sub-division in Meghalaya which begins with the letter 'K'. 1

19. Fill in the blanks : 1×10=10

(a) The fastest growing industrial hub of Meghalaya is at ——.

(b) Meghalaya was separated from Assam in ——.

(c) The State capital, known as 'The Scotland of the East' is ——.

(d) The oldest church of Meghalaya was built in ——.

(e) —— community of Meghalaya performs Nongkrem dance.

(f) The first man from Meghalaya to be the Lok Sabha Speaker was ——.

(g) The first Chief Minister of Meghalaya is ——.

(h) The State flower of Meghalaya is ——.

(i) Khasis and Jaintias belong to —— by race.

(j) The height of Shillong peak is —— metres above the sea level.

20. What do the following abbreviations stand for? $1 \times 5 = 5$

IFC ; GATT ; ISRO ; RSVP ; PPP.

21. Choose the right answer : $1 \times 10 = 10$

(a) The first Battle of Panipat was fought between

   (i) Akbar and Hemu

   (ii) Babur and Ibrahim Lodi

   (iii) Ahmad Shah Abdali and Marathas

(b) Guru Ramdas, who was Shivaji's teacher, had very great influence on him.

   (i) True

   (ii) False

   (iii) Do not know

(c) Who was the Arab ruler, who launched 17 attacks on India?

   (i) Muhammad Bin Kasim

   (ii) Mahmud of Ghazni

   (iii) Muhammad Ghori

(d) The first Partition of Bengal took place during the viceroyalty of

   (i) Lord Ripon

   (ii). Lord Curzon

   (iii) Lord Minto

(e) Varna system, though resembles the Caste system, yet is different from the latter.

    (i) True

    (ii) False

    (iii) Do not know

(f) The Prophet Muhammad, the founder of Islam, was born in AD

    (i) 570

    (ii) 622

    (iii) 632

(g) The Muslim society in India is also stratified into castes like the Hindu society.

    (i) True

    (ii) False

    (iii) Do not know

(h) What was the name of the town established by Akbar?

    (i) Agra

    (ii) Delhi

    (iii) Fatehpur Sikri

(i) The fraternal form of polyandry is not practised in the *cis*-Himalayan region in India.

    (i) True

    (ii) False

    (iii) Do not know

(j) Which of these is a correct characteristic of Indian culture?

    (i) Respect for the individual

    (ii) It is other wordly

    (iii) It is fatalistic

22. Fill in the blanks :   1×10=10

(a) Anna Hazare is fighting for introduction of —— Bill.

(b) —— was the first Indian sportswoman to win a medal in World Athletics in the year 2003.

(c) —— was adjudged as man of the match in the recently concluded test series in England.

(d) West Bengal is renamed as ——.

(e) The 2010 FIFA World Cup was the —— edition of the FIFA World Cup.

(f) Highest individual ODI score is created by ——.

(g) —— is the head of Krishak Mukti Morcha (Assam).

(h) —— is the new Railway Minister of India.

(i) —— got the best actor award in IFA 2010.

(j) —— got the prize for the best music director in IFA 2010.

23. Name the capitals of the following countries :

$1 \times 5 = 5$

(a) Israel

(b) Angola

(c) Romania

(d) Uganda

(e) North Korea

SECTION—B

(Arithmetic)

(*Marks* : 100)

24. Simplify :   3

$$\frac{3 \cdot 25 \times 3 \cdot 20 - 3 \cdot 20 \times 3 \cdot 05}{0 \cdot 064}$$

25. What is the greatest number that will divide 63, 138 and 228 so as to leave the same remainder in each case?   4

26. The HCF of three numbers is 12. If those numbers are in the ratio of $5 : 2 : 3$, then what is the least of those numbers? Find their LCM. $2+1=3$

27. Simplify :   7

$$\frac{5\frac{3}{4} - \frac{3}{7} \ \text{of} \ 15\frac{3}{4} + 2\frac{2}{35} \div 1\frac{11}{25}}{\frac{3}{4} \ \text{of} \ 7\frac{3}{7} - 5\frac{3}{5} \div 3\frac{4}{15}}$$

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28. If A and B can do a work in 12 days, B and C in 15 days, while C and A in 20 days, how long would A, B and C alone take to do the work?   10

29. If the petrol price increases by 25%, then how much consumption of petrol should be reduced so that the expenditure remains same?   6

30. A train is 150 m long and is running at 60 km/hr. If a man is going at 6 km/hr in the same direction, how long will the train take to pass the man?   6

31. The ratio of milk and water in a mixture is 3 : 2. If 4 litres of water is added to the mixture, the quantities of milk and water are found to be equal. What is the quantity of milk and water in the original mixture?   6

32. A man sold two TV sets for Rs 900 each. On one of them, he gains 10% and on the other, he loses 10%. On the both, what is his gain or loss?   7

33. A certain sum of money at 5% per annum simple interest amounts to Rs 2,750 in 2 years. At what rate of interest the same sum will amount to Rs 3,000 in 2 years?   8

34. A room is 7 m 30 cm long and 7 m 10 cm wide, its floor is to be paved with square tiles. What is the least number of tiles required?   7

35. A man has Rs 8,400 with him. He invests some part of it at 8% simple interest and the rest at $6\frac{2}{3}$% simple interest. After $1\frac{1}{2}$ years he thus, receives Rs 882 as his interest. How much money did he invest at different rates?   8

36. Among three numbers, first number is twice that of the second number and thrice that of the third number. The average of all three numbers is 44. What is the difference between the largest and the smallest numbers?   8

37. Three pipes A, B and C can fill a tank in 10 hours, 12 hours and 15 hours respectively. If all the three pipes are opened together, how much time will be taken to fill it?   6

38. If 4 men or 7 women do a work in 60 days, then in how many days will 8 men and 7 women finish the same work?   5

39. A rectangular field 80 m long and 60 m broad, is surrounded by a path. If the area of the path is 1500 m^2, what is the width of the path?   6

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