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# KPSC KAS

**Previous Year Paper**  
**Paper-II**  
**27 Aug, 2024**



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2024

QUESTION BOOKLET  
PAPER—II

SUBJECT CODE : 579

1294438

Maximum Marks : 200

Question Paper Version Code



Time Allowed : 2 Hours

INSTRUCTIONS

1. Immediately after the commencement of the Examination, you should check that the Question Booklet does NOT have any unprinted or torn or missing pages or questions etc. If so, get it replaced by a complete 'Question Booklet' of the same Question Paper Version Code as printed in your OMR Answer Sheet. If candidate uses faulty question paper without checking all the pages of the question paper, then the candidate himself shall be held responsible.
2. Read the instructions on the OMR Answer Sheet and Admission Ticket carefully. Violation of any of the instructions may lead to disciplinary action taken by the Commission.
3. The candidate shall ensure that the Question Paper Version Code printed on the OMR Answer Sheet is same as that of the question paper supplied to them. In case of any discrepancy, the candidates are required to get the same Version Code Question Paper as mentioned in the OMR Answer Sheet from the invigilator.
4. All questions carry equal marks.
5. You have to enter your Register Number in the Question Booklet in the box provided alongside. DO NOT write anything else on the Question Booklet.
6. This Question Booklet contains 100 questions. Each question comprises four responses (answers). You will select the response which you want to mark on the OMR Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider as the most appropriate. In any case, choose 'ONLY ONE RESPONSE' for each question. If the candidate encodes more than one answer, then that answer shall be considered as invalid.
7. Questions are printed both in Kannada and English. If there is any confusion in the translation of Kannada questions, candidate shall refer the questions in English and understand the questions.
8. All the responses should be marked ONLY on the separate OMR Answer Sheet provided and ONLY in Black Ball Point Pen.
9. The candidate shall ensure that the Question Paper Version Code printed in the personalized OMR Answer Sheet matches with the Question Paper Version Code printed on the nominal roll. In case of any discrepancy, the candidate shall give declaration regarding the actual Question Paper Version Code used by the candidate. If the candidate fails to give such declaration, then the version code printed on the OMR Answer Sheet shall be considered for evaluation.
10. In case if candidate uses the personalized OMR Answer Sheet belonging to another candidate, then the OMR Answer Sheet shall be considered as invalid.
11. The candidate shall affix his/her Signature in the OMR Answer Sheet in the space provided without fail. If the candidate fails to do so, then such OMR Answer Sheet shall be considered as invalid.
12. In case if candidate uses the Non-personalized OMR Answer Sheet, then the candidate shall write the Register Number in the space provided and also encode the relevant circles. Also the candidate shall write the version code compulsorily and affix his/her signature in the space provided. If the candidate fails to do so, then such OMR Answer Sheet shall be considered as invalid.
13. The candidate shall sign in the Nominal Roll (Attendance Sheet) without fail.
14. If the candidate violates any of the above instructions, then the OMR Answer Sheet shall be considered as invalid.
15. Immediately after the final bell indicating the conclusion of the examination, stop any further markings in the OMR Answer Sheet. The candidates shall not leave the examination hall till the OMR Answer Sheets are collected and accounted for by the Invigilator.
16. The candidates shall retain Carbonless copy of the OMR Answer Sheet (candidate copy) till the announcement of final list and in case if the Commission directs the candidate to produce the candidate copy, then the candidate shall produce the same without fail.
17. Sheets for rough work are appended at the end of the Question Booklet. You should not make any marking on any other part of the Question Booklet.
18. Penalty for Wrong answer :  
**THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE.**  
(i) There are four alternatives for the answer to every question. For each question for which wrong answer has been given by the candidate, one-fourth (0.25) of the marks assigned to that question will be deducted as penalty.  
(ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above to that question.  
(iii) If a question is left blank i.e., no answer is given by the candidate, there will be no penalty for that question.

Possession of Mobile Phones, Smart watches, Calculators and other Electronic/Communication gadgets of any kind are strictly prohibited inside the Examination Venue.

ಗಮನಿಸಿ : ಸೂಚನೆಗಳ ಕಡೆಗೆ ಅವಶ್ಯಕತೆಯು ಈ ಪ್ರಶ್ನೆಪುಸ್ತಕದ ಮುಂಭಾಗದಲ್ಲಿ ಮುದ್ರಿಸಲ್ಪಟ್ಟಿದೆ.

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1. Which of the following statements are **correct** with reference to International Big Cat Alliance (IBCA)?

- (a) It was launched in 2023 with the headquarters in New Delhi.
- (b) It covers only 5 big cats viz, tiger, lion, leopard, snow leopard and cheetah.
- (c) It is a multi-country coalition of big cat range countries where the above-mentioned big cats are found.
- (d) Annual budgetary support of 150 crore rupees per year will be given by Government of India for IBCA.

Choose the **correct** answer from the options given below :

- (1) All statements are **correct**
- (2) (a), (b) and (c) are **correct**
- (3) Only (a) is **correct**
- (4) (b), (c) and (d) are **correct**

/579-Q

2. Which of the following statements are **correct** with reference to Great Indian Bustard (GIB)?

- (a) It is one of the heaviest flying birds.
- (b) It is usually found in States like Rajasthan, Gujarat, Maharashtra, Andhra Pradesh, Karnataka and Tamil Nadu.
- (c) Siruguppa in Bellary district is the only home for the bird in Karnataka.
- (d) GIB is included in species recovery programme of MOEFCC.

Choose the **correct** answer from the options given below :

- (1) All of the above statement
- (2) (a), (b) and (c) only
- (3) (a), (c) and (d) only
- (4) (b), (c) and (d) only

[ P. T. O.

( 3 )



3. Which of the following statements are **correct** with reference to 'AdBlue'?

- (a) It is a diesel exhaust fluid used to reduce the amount of air pollution emitted by BS 6 diesel engine.
- (b) It is a mixture of demineralised water and pure urea.
- (c) It is blue colour toxic fluid with highly flammable properties.
- (d) It reduces the level of sulphur dioxide from the vehicle emission.

Choose the **correct** answer from the options given below :

- (1) All statements are **correct**
- (2) (a) and (b) only
- (3) (a) and (d) only
- (4) (b) and (d) only

4. As per Hardy-Weinberg law, the genotype and allele frequencies remain constant in the random mating population in the absence of which of the following factors?

- (a) Mutation
- (b) Migration
- (c) Selection
- (d) Genetic drift

**Codes :**

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

5. Which of the following radioactive materials is having highest half-life?

- (1) Plutonium-239
- (2) Cobalt-60
- (3) Uranium-235
- (4) Uranium-238

[ P. T. O. ]

**6. Statement :** Energy flow in a food chain reduces at each trophic level.

**Reason :** At each trophic level energy is lost because organisms use them for their survival, growth and development.

- (1) **Statement** and **Reason** both are **correct**
- (2) **Statement** is **correct** but **Reason** is **not correct**
- (3) Only **Reason** is **correct**, **Statement** is **not correct**
- (4) Both **Statement** and **Reason** are **not correct**

**7. Match the following correctly :**

- (a) National Bureau of Fish Genetic Resources (i) New Delhi
- (b) National Bureau of Plant Genetic Resources (ii) Bengaluru
- (c) National Bureau of Animal Genetic Resources (iii) Lucknow
- (d) National Bureau of Agricultural Insect Resources (iv) Karnal

- |     | (a)   | (b)  | (c)   | (d)   |
|-----|-------|------|-------|-------|
| (1) | (iii) | (i)  | (iv)  | (ii)  |
| (2) | (i)   | (ii) | (iii) | (iv)  |
| (3) | (ii)  | (i)  | (iv)  | (iii) |
| (4) | (iii) | (i)  | (ii)  | (iv)  |

**8. Which of the following statements are **correct** with reference to "Mission LiFE" (Lifestyle for Environment)?**

- (a) It was announced during the UNFCCC conference of parties (COP-27) held in Sharm El-Sheikh, Egypt.
- (b) A pavilion was set up by India at the COP-27 on the theme of Mission LiFE.
- (c) National Museum of national history and UNDP have jointly launched "in our LIFETIME" campaign for youth between 18-28 years of age to become manage bearers for sustainable lifestyle.
- (d) Mission LiFE covers three phases and seven themes.

Choose the **correct** answer from the options given below :

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

[ P.T.O. ]



9. Which of the following statements are **correct** with reference to Eco Sensitive Zone (ESZ) around the protected areas (national park, wildlife sanctuaries, etc.)?

(a) They are declared as per the Wildlife Protection Act, 1972 and Rules.

(b) No new commercial construction of any kind is permitted within 1 km from the boundary of protected area or up to the extent of ESZ whichever is nearer.

(c) Setting up of new saw mill is prohibited activity within the eco sensitive zone.

(d) National Board of Wildlife (NBWL) is empowered to permit any prohibited activity within the ESZ.

Choose the **correct** answer from the options given below :

(1) (a), (b) and (c) only

(2) (b), (c) and (d) only

(3) (b) and (c) only

(4) (a) and (d) only

10. If A is C's mother and D is B's son, E is A's sister, C is D's sister, then how B is related to E?

(1) Daughter

(2) Brother-in-law

(3) Husband

(4) Sister-in-law

11. If % means division, @ means addition, \* means subtraction, # means multiplication, then find

$$21 \% 3 @ 4 * 2 @ 9 \# 2 @ 8$$

(1) 38

(2) 35

(3) 36

(4) 31

12. A number reduced by 25% becomes 225. What percent should it be increased so that it becomes 390?

(1) 30%

(2) 35%

(3) 46%

(4) 52%

[ P. T. O. ]

13. When 15 is included in a list of natural numbers, their mean is increased by 2. When 1 is included in the new list, the mean of the numbers in the new list is decreased by 1. How many numbers were there in the original list?

- (1) 8
- (2) 7
- (3) 5
- (4) 4

14. A box contains 20 articles, out of which 4 are defective. Two articles are drawn at random from this box. The probability that at least one of them is defective, is

- (1)  $\frac{4}{19}$
- (2)  $\frac{7}{19}$
- (3)  $\frac{9}{19}$
- (4)  $\frac{5}{19}$

15. A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the box, if at least one black ball is to be included in the draw?

- (1) 32
- (2) 64
- (3) 48
- (4) 96

16. In a container, there are 28 eggs out of which 8 eggs are rotten. If two eggs are chosen at random, what will be the probability that at least one egg is rotten?

- (1)  $\frac{94}{189}$
- (2)  $\frac{95}{187}$
- (3)  $\frac{93}{183}$
- (4)  $\frac{97}{182}$

17. In a class of 40 students with roll number 3 to 42, a student is picked up to tell a joke. Find the probability that the roll number of the selected student is either a multiple of 4 or 7.

- (1)  $\frac{11}{42}$
- (2)  $\frac{14}{43}$
- (3)  $\frac{3}{7}$
- (4)  $\frac{3}{8}$

[P. T. O.]



18. A man has some hens and cows. If the number of heads be 48 and the number of feet equals 140, then the number of hens will be

- (1) 22
- (2) 23
- (3) 24
- (4) 26

19. All oranges are bananas.

No banana is fruit.

**Conclusions :**

- (a) Some bananas are oranges.
- (b) No fruit is banana.
- (c) All oranges are fruits.
- (d) Some fruits are oranges.
- (1) Only conclusion (c) and (d) follow
- (2) Only conclusion (a) and (b) follow
- (3) Only conclusion (a) and (c) follow
- (4) None of the above

20. Five boys are sitting on a bench near college auditorium to be photographed after a skit. Shyamal is to the left of Rajesh and to the right of Bimal. Madhu is to the right of Rajesh. Ritesh is between Rajesh and Madhu. Who is sitting immediate right to Ritesh?

- (1) Madhu
- (2) Rajesh
- (3) Bimal
- (4) Shyamal



**Directions :** Read the following passage and each group of four statements given below contains one statement which is most acceptable in the light of the passage and answer the questions 21 to 23.

When I go into a stranger's library I round the bookshelves to learn what sort of a person the stranger is and when he comes in I feel that I know the key to his mind and the range of his interests. A house without books is a characterless house, no matter how rich the Persian rugs only tell you

[ P. T. O. ]

whether he has got money, but the books tell you, whether he has got a mind as well. It is not a question of money that we don't buy books. I repeat that the books are the cheapest as well as the best part of the equipment of a house. You can begin your library with the expenditure of a few dollars. Nearly all the best literature in the world is at your command at two dollars a volume. For 100 dollars you can get a library of fifty books. Even if you don't read them yourself, they are a priceless investment for your children. What delight is there like the revelation of books for the sudden impact of a master-spirit, the sense of window flung wide open to the universe? It is the adventures of mind, the joy of which does not pass away, that give the adventure of life itself, beauty and fragrance.

21. What do the books tell you about stranger?

- (1) That he is a rich man
- (2) That he believes in priceless investment
- (3) That he has good mental faculty
- (4) That he motivates to others to read books

22. When one reads a good book, one is delighted because

- (1) one finds the windows of the library opened
- (2) one feels the influence of a great writer
- (3) one knows much about the universe
- (4) one gets all material comforts

23. The word 'master-spirit' in the passage means

- (1) a prominent writer
- (2) the spiritual effect of a master
- (3) one who has a control over the spirit of a man
- (4) one has had too many rugs

[P.T.O.]



**Directions :** Read the following passage and each group of four statements given below contains one statement which is most acceptable in the light of the passage and answer the questions 24 to 27.

There are a great many people who have all the material conditions of happiness, i.e., health and a sufficient income, and who, nevertheless, are profoundly unhappy. In such cases it would seem as if the fault must lie with a wrong theory as to how to live. We imagine ourselves more different from the animals than we are. Animals live on impulse, and are happy as long as external conditions are favorable. If you have a cat it will enjoy life if it has food and warmth and opportunities for an occasional night on the tiles. Your needs are more complex than those of your cat, but they still have their basis in instinct. In civilized societies this is too apt to be forgotten. People propose to themselves someone paramount objective, and restrain all impulses that do not minister to it. A businessman may be anxious to grow rich that to the end he sacrifices health and private

affections. When at least he has become rich, no pleasure remains for him except harrying other people by exhortations to imitate his noble example.

If you look around you at the men and women whom you can call happy, you will see that they all have certain things in common. The most important of these things is an activity which at most times is enjoyable on its own account and which, in addition, gradually builds up something that you are glad to see coming into existence. Many men who spend their working life in the city devote their work-ends to voluntary and unremunerated toil in their gardens, and when the spring comes they experience all the joys of having created beauty. It is the simple things that really matter. If a man delights in his wife and children, has success in work, and finds pleasure the alternation of day and night, spring and autumn, he will be happy whatever his philosophy may be. Man is an animal, and his happiness depends on his physiology more than he likes to think. This is humble conclusion, but I cannot make

[ P. T. O. ]



myself disbelieve it. Unhappy businessmen would increase their happiness more by walking six miles every day than by any conceivable change of philosophy.

24. According to the passage,

- (1) we are not in any sense different from the animals
- (2) we are superior to the animals in all respects
- (3) we are not as different from the animals as we think we are
- (4) we are descended from the animals



25. The passage points that

- (1) city-dwellers hardly find any time to work in their gardens
- (2) by working in their gardens men engage in a profit-making activity
- (3) many men working in their gardens get the joy of creating beauty in spring
- (4) working in the gardens should be made compulsory for city-dwellers

26. According to the passage,

- (1) man likes to think that his happiness depends on his physiology
- (2) man's happiness depends on having a right philosophy
- (3) man does not like to think that his happiness largely depends on his physiology
- (4) physiology and philosophy are basically related

27. In civilized societies

- (1) it is quietly forgotten that man's needs are more complex than those of animals
- (2) people have a tendency to forget that man's needs are rooted in instinct
- (3) it is seldom forgotten that man is basically an animal
- (4) man's happiness is determined by the wealth he possesses



28. 'Anugraha Koduge' programme by Government of Karnataka is aimed at

- (1) giving compensation to shepherds for accidental death of sheep and goats
- (2) arranging training programs for shepherds
- (3) giving subsidised loans for the construction of goat and sheep farms
- (4) providing scholarships to the sons and daughters of the shepherd community

29. Which of the following is **not** a hydel power project of Karnataka?

- (1) Kadra Power House
- (2) Nagjhari Power House
- (3) Kodasalli Power House
- (4) Yermarus Power House

30. At which of the following places, the Karnataka State Wildlife Board has approved the formation of 'Wolf sanctuary'?

- (1) Bankapura
- (2) Yadahalli
- (3) Kappata Gudda
- (4) Timlapura

31. Arrange the following in increasing order of their percentage of contribution to GSDP 2023-24 :

- (a) State taxes
- (b) Share of Central taxes
- (c) Grants from Centre
- (d) Non-tax revenue

Choose the **correct** answer from the options given below :

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

32. Which of the following statements is **correct** with respect to 'Navodyama' Scheme?

- (1) It provides financial assistance to SHGs
- (2) It provides innovation in agriculture field and market
- (3) It provides subsidy for start-ups
- (4) It provides financial assistance for SC/ST women

[ P. T. O. ]

33. During Budget speech on February, 2024, Hon'ble CM of Karnataka announces the food park at which of the following Airports?

- (a) Sogane of Shivamogga
- (b) Itangihal of Vijayapura
- (c) Pujanahalli of Bengaluru rural district
- (d) Sambra of Belgaum
- (e) Bajpe of Mangalore

Choose the **correct** answer from the options given below :

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

34. Karez water system, which was in recent budget speech, is found in

- (1) Bidar and Kalaburagi
- (2) Kalaburagi and Vijayapura
- (3) Kalaburagi and Yadgiri
- (4) Bidar and Vijayapura

35. With reference to Kalyana Karnataka Regional Development Board (KKRDB), which of the following statements are **correct**?

(a) KKRBD was created in 2013 by an act of Karnataka assembly.

(b) The jurisdiction of KKRBD spreads over 40 assembly constituencies of 5 districts.

(c) Any legislator from Kalyana Karnataka can be appointed as Chairman of KKRBD by the Government.

(d) Constitutional Amendments in Article 371(j) was brought through 97<sup>th</sup> Constitutional Amendment Act to empower Karnataka Assembly to create KKRDB.

Choose the **correct** answer from the options given below :

- (1) (b) only
- (2) (c) only
- (3) (d) only
- (4) All of the above

[P.T.O.]



36. Which of the following statements are **correct** with reference to 10<sup>th</sup> Karnataka Bird Festival which happened recently?

(a) It was organised in Mookambika Sanctuary, Kollur.

(b) Greater flamingo is the mascot of the event.

(c) It was organised jointly by Karnataka Forest Department and Karnataka Ecotourism Development Board.

(d) It was decided to create a separate cell for conducting research on birds.

Choose the **correct** answer from the options given below :

(1) (a) and (b) only

(2) (b) and (c) only

(3) (c) and (d) only

(4) (a) and (d) only

37. Karnataka Tourism Road Show, 2023 happened in three cities in the month of August. In which one of the following cities was it organised?

(1) Pune

(2) Goa

(3) Mumbai

(4) Chennai

38. Which of the following schemes are implemented by Dr. B. R. Ambedkar Development Corporation Limited?

(a) Ganga Kalyana Scheme

(b) Land purchase Scheme

(c) Hostel / Scholarship / Financial Assistant

(d) Micro credit finance (Small loan)

Choose the **correct** answer from the options given below :

(1) (a), (b) and (d) only

(2) (b), (c) and (d) only

(3) (a), (c) and (d) only

(4) All of the above

39. Which of the following are the eligible criteria for Yuva Nidhi Scheme?

- (a) They must have completed their degrees or diplomas in 2022-23.
- (b) They should not have secured employment within six months after completing their degrees or diplomas.
- (c) Self-employed individuals who have availed loans through State, Central schemes or banks are eligible.
- (d) Those already benefiting from similar schemes or programs will not be eligible.

Choose the **correct** answer from the options given below :

- (1) (a), (b) and (d) only
- (2) (b), (c) and (d) only
- (3) (a), (c) and (d) only
- (4) All of the above

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40. With reference to Karnataka Raitha Samruddhi Yojana, which of the following statements are **correct**?

- (a) It aims to double the productivity and triple the farmers' income by 2029-30.
- (b) Combinations of various farming activities like agriculture, dairy farming etc. for steady income.
- (c) Connecting the markets for fair pricing.
- (d) Educating the farmers on modern agricultural techniques.

Choose the **correct** answer from the options given below :

- (1) (a), (b) and (c) only
- (2) (b), (c) and (d) only
- (3) (b) and (d) only
- (4) All of the above

[ P. T. O. ]

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41. Which of the following statements are **correct** with reference to Karnataka Agricultural Prices Commission?

- (a) Karnataka is the first State in the country to set up Agricultural Prices Commission.
  - (b) It gives a recommendation /suggestion to the Government in the form of cost of cultivation reports.
  - (c) It is an advisory body working independently from other organizations like universities, departments and other institutions like IIHR.
  - (d) It also looked in to non-price measures to enhance farmers' income.
- (1) (b), (c) and (d) only
- (2) (a), (b) and (c) only
- (3) (a), (b) and (d) only
- (4) All of the above

42. Which of the following are the major irrigation projects located in Krishna basin?

- (a) Bennithora
- (b) Hipparagi
- (c) Markandeya
- (d) Bhadra

Choose the **correct** answer from the options given below :

- (1) (a), (b) and (c) only
- (2) (b) and (c) only
- (3) All of the above
- (4) None of the above

43. Which of the following activities is/are undertaken by KEONICS (Karnataka State Electronics Development Corporation Limited)?

- (a) IT infrastructure facility services
- (b) IT enabled service and allied services
- (c) Training services
- (d) Human resources and manpower consulting services

Choose the **correct** answer from the options given below :

- (1) (a), (b) and (c) only
- (2) (a) and (b) only
- (3) (a) only
- (4) All of the above

[P. T. O.]

44. Which of the following statements are **correct**?

- (a) European investment bank and JICA are providing financial aid for ongoing Bengaluru suburban rail project.
- (b) 'Police Mitra' chat box recently launched by Karnataka police uses chat GPT technology to facilitate answering queries related to cybercrime, traffic etc.
- (c) On the occasion of launch of Yuva Nidhi Scheme, Freedom Park in Shivamogga was renamed as Allama Prabhu Park.
- (d) 1<sup>st</sup> ever Kambala (traditional buffalo race) event was organised in Bengaluru's palace grounds on November 2023.

Choose the **correct** answer from the options given below :

- (1) (b) and (c) only
- (2) (b), (c) and (d) only
- (3) (c) and (d) only
- (4) All of the above

45. Consider the following statements about e-greenwatch portal :

- (a) Created to manage the works using CAMPA funds and monitor progress of plantations raised in CA lands.
- (b) Launched by Government of Karnataka in compliance with the orders of the High Court of Karnataka.
- (c) The portal is jointly monitored by the MoEF & CC and the Forest Survey of India.
- (d) It enables user agencies to register themselves and apply for forest land diversion proposal under forest Conservation Act, 1980.

Which of the above statements is/are **correct**?

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



46. India's nomination of The Sacred Ensembles of the Hoysalas has been inscribed on UNESCO's World Heritage list in the ongoing extended 45th World Heritage Committee Meeting being held in Riyadh, Saudi Arabia. India submitted the nomination dossier for The Sacred Ensembles of the Hoysalas to the World Heritage Centre in January, 2022. The site has been on UNESCO's tentative list since 2014.

(a) This is the 42<sup>nd</sup> UNESCO World Heritage Site of India.

(b) It includes 3 temples - Hoysaleswara Temple, Halebidu, Chennakeshava Temple, Belur and Keshava Temple, Somanathpura in Karnataka.

(c) This addition makes Karnataka the State with highest number of UNESCO's World Heritage sites in India.

(d) These temples were built between 5th-8th century AD by Hoysalas.

Which of the above statements are **correct**?

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

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47. Consider the following statements about Women's Premier League :

(a) WPL is owned and operated by the Board of Control for Cricket in India (BCCI).

(b) The final for 2024 season was played in Arun Jaitley Cricket Stadium, New Delhi.

(c) Total number of teams participating in the tournament is 6.

(d) The official mascot of the WPL is named 'Shakti' and resembles a tigress, donning a blue jersey.

How many statements is/are **correct**?

(1) Only 1 statement is correct

(2) Only 2 statements are correct

(3) Only 3 statements are correct

(4) All the 4 statements are correct

[ P. T. O. ]



48. Consider the following statements about Kari Ishad, which is accepted as one of the finest quality mangoes due to its unique aroma, luscious taste, high amount of pulp, shape and size :

(a) Kari Ishad mango is prominently grown in Ankola taluk of Uttara Kannada.

(b) The mango is also grown in Mandya and to a certain extent in Hunsuru of Mysore.

(c) The mango is also grown in Kaiwar and to a certain extent in Kumta of Uttara Kannada.

(d) There are total three variants of Ishad mango.

How many statements is/are correct?

(1) Only 1 statement is correct

(2) Only 2 statements are correct

(3) Only 3 statements are correct

(4) All the 4 statements are correct

1579-Q

(35)

49. Consider the following statements about High Court of Karnataka :

(a) Appointment of the Chief Justice is made by the Governor in consultation with the Chief Justice of India (CJI) and the Chief Minister of the State.

(b) The Court's principal bench is located in Bengaluru, with three additional benches in Mangaluru, Hubballi-Dharwada and Kalaburagi.

(c) The building in which the High Court at Bengaluru is functioning, is called Attara Kacheri which originally comprised of the general and revenue secretariat of the erstwhile Mysore State.

(d) The post of Chief Justice of the High Court is created under Article 217 of Indian Constitution.

How many statements is/are correct?

(1) Only 1 statement is correct

(2) Only 2 statements are correct

(3) Only 3 statements are correct

(4) All 4 statements are correct

[ P. T. O. ]



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50. Which of the following statements is **correct** about the Asha Kirana Initiative?

- (1) It is an initiative for door-to-door eye screening.
- (2) It is revolutionary drive to promote menstrual cups (M-cups) among women.
- (3) It is an initiative to promote millets.
- (4) It is an initiative to deliver ration to 80+ aged citizens.

(c) Na D'Souza received the award for lifetime contribution in 2023.

(d) It was established in 1987 by the Government of Karnataka.

How many statements is/are **correct**?

- (1) Only 1 statement is correct
- (2) Only 2 statements are correct
- (3) Only 3 statements are correct
- (4) All 4 statements are correct

51. Consider the following statements about Pampa Awards :

(a) It is the highest literary honour conferred by the Department of Kannada and Culture to recognise works written in the Kannada language.

(b) Kuppalli Venkatappa Puttappa (Kuvempu) was the first recipient of the award for his work *Sri Ramayana Darshanam*.

52. What is the name of the project in Karnataka aimed at diverting water from the west-flowing rivers to the water-deficient regions, facing opposition from environmentalists and neighbouring States?

- (1) Cauvery River Interlinking Project
- (2) Mahadayi River Diversion Project
- (3) Sharavati River Diversification Scheme
- (4) Tungabhadra Water Transfer Initiative

1579-Q

53. Focusing on rural road development, the State Budget has proposed to roll out 'Pragati Path' scheme. Under this, consider the following statements :

- (a) The proposal is to develop a road network of 9450 km.
- (b) The proposal is to develop a road network with 50 km each in 189 rural Assembly constituencies.

Which of the above statements is/are **correct**?

- (1) Only (a)
- (2) Only (b)
- (3) Both (a) and (b)
- (4) Neither (a) nor (b)

54. On the lines of the Mumbai-Chennai economic corridor, the Karnataka Government has planned similar corridors between

- (a) The New Mangalore Port and Bengaluru.
- (b) Hubballi-Dharwad and Bengaluru.

- (c) Bidar and Bengaluru.
- (d) Ballari and Hubballi-Dharwad.

Choose the **correct** answer from the options given below :

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

55. Following are the pillars of Karnataka's Startup Policy 2022-27 :

- (a) Creating and strengthening New Age Innovation Network.
- (b) Channelizing innovation for Societal Impact.
- (c) Fostering Social and Rural Entrepreneurship.
- (d) Building inclusive and equitable Startup Ecosystem.

Which of the above statements are the pillars of Karnataka's Start-up Policy 2022-27?

Choose the **correct** answer from the options given below :

- (1) (a), (b) and (c) only
- (2) (b), (c) and (d) only
- (3) (a), (c) and (d) only
- (4) All of the above

[ P. T. O. ]



56. The Ministry of New and Renewable Energy (MNRE) has requested States/Union Territories to select at least one city to be developed as a solar city.

(a) There will be a separate fund allocation for solar city programme.

(b) Funds available under the different existing schemes cannot be utilised for development of solar cities.

(c) 2 solar cities are identified by Karnataka.

(d) Bidar and Hospet to be solar cities of Karnataka.

Which of the above statements is/are **correct**?

(1) (a), (b) and (c) only

(2) (b), (c) and (d) only

(3) (a), (c) and (d) only

(4) (c) and (d) only

1579-Q

57. Recently, Karnataka announced its second AVGC-XR Policy, 2024-2029. Consider the following statements :

(a) AVGC-XR stands for Animation, Visual effect, Graphics and Comics, Visual Reality.

(b) The policy will provide financial benefits to only Karnataka registered companies or startups.

(c) The registration fee for the above is ₹ 10,000.

(d) The policy was recently announced in the GAFEX and State Budget 2024-25.

Which of the above statements is/are **correct**?

(1) (a), (b) and (c) only

(2) (b), (c) and (d) only

(3) (a), (c) and (d) only

(4) (a), (b) and (d) only

[ P. T. O. ]

58. Which of the following statements are **correct** about the recently introduced Karnataka Stamp (Amendment) Act, 2023?

- (a) This Act has amended the Karnataka Stamp Act of 1975.
- (b) This Act has increased the paper bank guarantee to three hundred rupees.
- (c) This Act has decreased the e-bank guarantee to two hundred rupees.
- (d) This Amendment was brought in to enhance the rate of Stamp Duty in certain cases and to make a separate provision regarding levy of Stamp Duty on Bank Guarantee.

(1) (a) and (b) only

(2) (b) and (c) only

(3) (b) and (d) only

(4) (a) and (d) only

1579-Q

(43)

59. Which of the following statements are **incorrect** about the State Finance Commission?

(a) Karnataka has recently constituted a Fifth Finance Commission to come out with recommendations on the division and allocation of resources after reviewing the financial position of Urban Local Bodies (ULBs) and Panchayat Raj Institutions.



(b) It will be headed by retired IAS Officer Mohamed Sanaulla.

(c) It will also determine the taxes, duties, tolls and fees which may be assigned to, or appropriated by the ULBs and Panchayats.

(d) Article 243K of the Constitution mandates the State Governor to constitute a Finance Commission every five years.

(1) (b) and (d) only

(2) (a) and (c) only

(3) (a) and (b) only

(4) (c) and (d) only

[ P. T. O. ]



60. Which of the following statements are **correct**?

- (a) KaBHI; Karnataka Brain Health Initiative is an initiative launched by the Karnataka's Health Department.
- (b) It aims at establishing 33 brain clinics which will help people in dealing with psychological diseases and disorders.
- (c) Each brain health clinic will be staffed with a multidisciplinary care team comprising of a physician, physiotherapist, speech therapist, psychologist, nurse and a district coordinator.
- (d) The initiative is being launched with technical support from National Institute of Mental Health and Neurosciences.

(1) (a), (b) and (c) only

(2) (a), (c) and (d) only

(3) (b), (c) and (d) only

(4) All of the above

61. Consider the following statements :

(a) The Karnataka Government recently permitted a maximum of six months (180 days) of parental leave only.

(b) It is applicable to both Government and private male employees.



(c) Single male parent does not include divorcees.

(d) If during this leave they get married, their leave will automatically end from that day, the order stated.

Which of the above statements are **incorrect**?

(1) (b) and (c) only

(2) (a) and (b) only

(3) (c) and (d) only

(4) (a) and (d) only

[ P. T. O. ]

62. Which of the following statements are **correct** about The Factories (Karnataka Amendment) Act, 2023?

- (a) The Amendment allows the factories to increase the working hours from nine hours up to twelve hours exclusive of rest intervals.
- (b) The overtime can be extended to a maximum of 48 hours in any week.
- (c) It is optional to take written consent from the workers for the same.
- (d) The State Government may by notification, extend the total number of hours of work of a worker without an interval to six hours in respect of any group or class or description of factories on such conditions as it may deem expedient.

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

(47)

63. Which of the following statements are **correct**?

(a) The Government of Karnataka has been a leader in promotion of millets - The first Organics and Millets Fair was held in 2017, the second and third editions in 2018 and 2024 in Bengaluru.

(b) Karnataka State Agriculture Products Processing and Export Corporation Limited was the nodal agency in conducting the fair.



(c) Karnataka has imported 7764 million tonnes of millets and millet value-added products worth ₹ 36 crore.

(d) America, Australia, Qatar, Thailand, UAE and Singapore are major import destinations.

- (1) Only one statement is correct
- (2) Only two statements are correct
- (3) All of the above statements are correct
- (4) None of the above statements are correct

[ P. T. O. ]



64. What is the DISHANK app launched by the Karnataka Government primarily designed for?

- (1) To identify land survey number and location
- (2) For preserving and conserving wildlife
- (3) For disaster management
- (4) To identify drought hit areas

65. How many of the following statements are **incorrect** about e-sahamathi?

- (a) It is a portal wherein the data holder gives consent to share his/her data with other agencies.
  - (b) It has been developed by e-Governance department with National Informatics Centre (NIC).
  - (c) Government will be custodian of the data, i.e. Data Fiduciary and can sell this data to private agencies and earn revenue on the same.
  - (d) Karnataka will be the first State in the country which is monetizing the data.
- (1) Only one statement is wrong
  - (2) Only two statements are wrong
  - (3) All of the above statements are wrong
  - (4) None of the above statements are wrong

66. Which of the following statements are **correct** about Lion-Tailed Macaque?

- (a) As per the study conducted by the Karnataka Forest Department and Coimbatore-based Salim Ali Centre for Ornithology and Natural History (SACON), Karnataka has the world's largest population of Lion-Tailed Macaques (LTMs).
- (b) LTMs are the indicators of evergreen forests as they prefer canopy and are rarely seen on ground.
- (c) This is the first LTM assessment exercise for the Sharavathi Valley Sanctuary, which specifically focuses on Shivamogga circle.
- (d) It is an extinct species which is endemic to Western Ghats of South India.

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

[ P. T. O. ]

67. Consider the following statements :

- (a) Uttar Pradesh and Karnataka dominated the electronics export amongst other Indian States till 2022.
- (b) In the last five financial years, Karnataka has shown consistent growth in electronics export.
- (c) Tamil Nadu has the highest export (in value INR) of electronic goods for the year 2023-24.

How many statements is/are correct?

- (1) Only 1 statement is correct
- (2) Only 2 statements are correct
- (3) Only 3 statements are correct
- (4) All statements are incorrect

68. Consider the following statements :

- (a) Karnataka has established a "Fact check unit" to combat fake news and misinformation, especially on social media.
- (b) There is an Information Disorder Tackling Unit (IDTU) which comprises of four firms that will aid the unit in identifying misinformation.

(c) The unit is set up in collaboration between the Department of Information Technology and Home Department.

(d) The Supreme Court stayed both the Union and State Government's notification, which established the Press Information Bureau's Fact Checking Unit (PIB FCU) and State Fact Check Unit.

How many statements is/are correct?

- (1) Only one statement is correct
- (2) Only two statements are correct
- (3) Only three statements are correct
- (4) All of the above statements are correct

69. For which of the following Kannada poetries, Shruthi B. R. has received the 2024 Sahitya Akademi Yuva Puraskar?

- (1) *Dhoopada Makkalu*
- (2) *Zero Balance*
- (3) *Phoo Mattu Ithara Kathegalu*
- (4) *Togala Cheelada Karna*

[ P. T. O. ]



70. The NITI Aayog has identified Raichur and Yadgiri Districts of Karnataka as Aspirational districts in which of the following themes?

- (a) Health and Nutrition
- (b) Agriculture and Water Resources
- (c) Financial Education and skills development
- (d) Education
- (e) Transportation

Choose the **correct** options given below :

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

71. In 2021, WHO has launched the first ever global strategy to defeat meningitis by 2030. Which are the antibiotics recommended by WHO to treat this disease?

- (1) Penicillin, Ampicillin, Ceftriaxone
- (2) Metronidazole, Cephalixin, Doxycycline
- (3) Amoxicillin, Cephalixin, Ciprofloxacin
- (4) Levofloxacin, Clorlamiscin, Azithromycin

72. Which of the following organs is **not** considered to be immunological important organ?

- (1) Bone marrow
- (2) Thymus
- (3) Spleen
- (4) Pancreas

73. Mark the following statements about the vitamins that are **true** :

- (a) Total daily requirement of vitamins is very small.
- (b) Vitamins are not present in the common food stuffs.
- (c) Synthetic vitamins are not nutritionally as good as natural vitamins.
- (d) Bacteria present in the human gut can synthesize some of the vitamins.

- (1) (a) and (b) are true while (c) and (d) are false
- (2) (b) and (c) are true while (a) and (d) are false
- (3) (a) and (d) are true while (b) and (c) are false
- (4) (b) and (d) are true while (a) and (c) are false

[ P. T. O. ]

74. Match **List—I** with **List—II**.

**List—I**

**List—II**

(a) Radioactive isotopes (i) Equal to the number of protons found in the nucleus

(b) Radiation unit (ii) Equal to the number of protons and neutrons in the nucleus

(c) Atomic number of a chemical element (iii)  $^1\text{H}$ ,  $^{32}\text{S}$ ,  $^{12}\text{C}$ ,  $^{127}\text{I}$ ,  $^{59}\text{Co}$

(d) Mass number of a chemical element (iv) Curie (Ci), Millicurie (mCi)

(v)  $^3\text{H}$ ,  $^{35}\text{S}$ ,  $^{14}\text{C}$ ,  $^{131}\text{I}$ ,  $^{60}\text{Co}$

Choose the **correct** answer from the options given below :

- |     | (a)   | (b)   | (c)   | (d)  |
|-----|-------|-------|-------|------|
| (1) | (v)   | (iv)  | (i)   | (ii) |
| (2) | (iv)  | (ii)  | (iii) | (v)  |
| (3) | (iii) | (iv)  | (ii)  | (i)  |
| (4) | (ii)  | (iii) | (v)   | (iv) |

75. Consider the following statements :

**Assertion (A) :** The stream of water flowing at high speed from a garden hose pipe tends to spread like a fountain when held vertically up, but tends to narrow down when held vertically down.

**Reason (R) :** In any steady flow of an incompressible fluid, the volume flow rate of the fluid remains constant.

Choose the **correct** answer from the options given below :

- (1) Both **Assertion (A)** and **Reason (R)** are true and **Reason (R)** is the correct explanation of the **Assertion (A)**
- (2) Both **Assertion (A)** and **Reason (R)** are true but the **Reason (R)** is not the correct explanation of the **Assertion (A)**
- (3) **Assertion (A)** is true, but **Reason (R)** is false
- (4) Both **Assertion (A)** and **Reason (R)** are false

[ P. T. O. ]



76. Match **List—I** with **List—II**.

**List—I**

**List—II**

- |   |                               |
|---|-------------------------------|
| (a) Polaroid sun glasses decrease glare on a sunny day because they     | (i) Double refraction         |
| (b) The substances that rotate the plane of polarization are said to be | (ii) Block a portion of light |
| (c) Which phenomenon causes the polarization of light                   | (iii) Optically active        |
| (d) Quantum nature of light is not supported by the phenomenon of       | (iv) Diffraction of light     |
|   | (v) Interference of light     |

Choose the **correct** answer from the options given below :

- |     | (a)   | (b)   | (c)   | (d)  |
|-----|-------|-------|-------|------|
| (1) | (ii)  | (iii) | (iv)  | (v)  |
| (2) | (iii) | (ii)  | (iv)  | (i)  |
| (3) | (i)   | (v)   | (iii) | (ii) |
| (4) | (ii)  | (iii) | (i)   | (v)  |

77. Which of the following statements are **correct** with reference to a nuclear power plant?

- The by-products can be disposed-off directly in the atmosphere.
- Fuel transportation cost is very high due to large quantity.
- The capital cost is very less as compared to other plants with similar capacity.
- Specially trained personnel are required for plant operation.
- The fuel used is expensive and is difficult to recover.
- A nuclear power plant requires less space as compared to any other type of the same size
- Nuclear power plant can be located near load center because bulk amount of fuel is not required.

Select the **correct** answer using the code given below :

- (d), (e), (f) and (g) only
- (a), (b), (c) and (d) only
- (b), (c), (d), (e) and (f) only
- (a), (b), (c), (d), (e), (f) and (g)

[ P. T. O. ]

82. The most dangerous radioactive pollutant among the following is

- (1) phosphorous-32
- (2) strontium-90
- (3) calcium-40
- (4) sulphur-32

83. The molecule acting as a second messenger in the biological system is

- (1) cDNA
- (2) cAMP
- (3) tRNA
- (4) hnRNA

84. The important function of ionosphere is

- (1) to create rainbow
- (2) radio wave propagation to distant places on the earth
- (3) blocking of sunlight
- (4) blocking of sound

85. Fuse in an electric circuit is used to prevent excessive flow of current. A fuse is made up of using

- (1) tungsten
- (2) duralumin
- (3) sterling silver
- (4) alloy of tin and lead

86. Which of the following are **true** about nanomaterials?

- (a) The properties strongly depend on the surface atoms.
- (b) They have large surface area.
- (c) Nanoparticles have typical sizes  $> 100$  nm.
- (d) We cannot see particles of nanomaterials from the naked eye.

Select the **correct** answer using the code given below :



- (1) (a), (b) and (c)
- (2) (a), (c) and (d)
- (3) (b), (c) and (d)
- (4) None of the above

87. Consider the following :

- (a) Mica
- (b) Graphite
- (c) Sulphur
- (d) Human body

Which among the above is/are electrical conductors?

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

[ P. T. O. ]



88. During a hot sunny day people feel cool in the shadow under a big tree

- (a) because the tree blocks direct sunlight.
- (b) because heat from the air is used in evaporation of water by tree leaves reducing the temperature.
- (c) because photosynthesis by tree leaves absorbs energy from sunlight.
- (d) because tree leaves absorb water vapour from air which is an endothermic process.

The **correct** answer is

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

89. Match the following and choose the **correct** answer in view of polymer products.

Polymer Name	Uses
(a) Polyethylene	(i) Nonstick surfaces
(b) Polyvinyl chloride	(ii) Adhesives
(c) Polytetrafluoroethylene	(iii) Water bottles
(d) Polyvinyl acetate	(iv) Pipes

- |     |       |      |       |      |
|-----|-------|------|-------|------|
|     | (a)   | (b)  | (c)   | (d)  |
| (1) | (iii) | (iv) | (i)   | (ii) |
| (2) | (ii)  | (iv) | (iii) | (i)  |
| (3) | (iii) | (ii) | (i)   | (iv) |
| (4) | (iv)  | (i)  | (iii) | (ii) |

90. A secondary rainbow is always seen with a rainbow.

- (a) A secondary rainbow appears above or outside a primary rainbow.
- (b) The secondary rainbow is always fainter than the corresponding primary rainbow.
- (c) The orders of colours of primary rainbow and secondary rainbow are opposite.
- (d) A secondary rainbow is only a refraction of a primary rainbow.

The **correct** statement(s) among the above is/are

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

91. Iodex is

- (1) methyl salicylate
- (2) ethyl salicylate
- (3) acetylsalicylic acid
- (4) ortho-hydroxy benzoic acid

92. Aditya-L1 is the first Indian space based observatory to study the Sun

- (1) from a geostationary orbit
- (2) from the first Lyapunov orbit around the Sun
- (3) from a halo orbit around Sun-Earth Lagrangian point
- (4) from the first orbit around the Sun-Earth Lavoisier point

93. The scientific objectives of Aditya-L1 mission include

- (a) study of coronal heating and solar wind acceleration.
- (b) study of solar neutrino oscillation and conversion of solar hydrogen through fusion.
- (c) study of Coronal Mass Ejections (CME) and dynamics of solar atmosphere.

Choose the **correct** answer from the options given below :

- (1) Only (a) and (b) are **correct**
- (2) Only (b) and (c) are **correct**
- (3) Only (a) and (c) are **correct**
- (4) (a), (b) and (c) are **correct**

94. In connection with Chandrayaan-2, CLASS refers to

- (1) an X-ray spectrometer
- (2) a solar X-ray monitor
- (3) an atmospheric compositional explorer
- (4) a dual frequency radar

95. Consider the following computer memories :

- (a) Main memory
- (b) Cache memory
- (c) Register memory
- (d) Auxiliary memory

Arrange the above computer memories in decreasing order of their accessing speed :

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

[ P. T. O. ]



96. Which of the following statements is/are **true** about blockchain?

- (a) A blockchain is centralized digital ledger consisting of records called blocks.
- (b) A blockchain database is managed autonomously using a peer-to-peer network and a distributed timestamping server.
- (c) A blockchain has been described as a value-exchange protocol.

Select the **correct** answer using the code given below :

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



97. Consider the following statements regarding LASER :

- (a) Laser beam is monochromatic.
- (b) Laser beam is coherent.
- (c) Laser beam is highly divergent.
- (d) In the emission of laser beam stimulated emission is absent.

Which of the above statements are **correct**?

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

98. Which of the following statements are **correct** with reference to the Blue Flag Certification?

- (a) This certification is issued to beaches, estuaries and deltas.
- (b) The certification issued based on 33 criteria and it is an Internationally recognised eco label.
- (c) BEAMS is India's own ecolabel for beaches launched in 2020.
- (d) Two sites from Karnataka Kasarkod beach and Padubidri beach have received blue flag certification.

Choose the **correct** answer from the options given below :

- (1) All of the above
- (2) (a), (b) and (c) only
- (3) (b), (c) and (d) only
- (4) (c) and (d) only

99. As per the National Policy on Biofuels, 2018 and amended on 2022, which of the following are **correct** goals?

- (a) Setting up second generation (2G) bio refineries.
- (b) Development of new feed stock for biofuels.
- (c) Development of new technologies for conversion of biofuels.
- (d) Creating suitable environment for biofuel and its generation with the main fuel.
- (e) Reinforcing ethanol / biodiesel supplies through increasing domestic production.

Choose the **correct** answer from the options given below :

- (1) Only one statement is **correct**
- (2) Only two statements are **correct**
- (3) Only three statements are **correct**
- (4) All the statements are **correct**

100. Under the 'Recovery of Endangered Species' component of the Centrally Sponsored Scheme 'Integrated Development of Wildlife Habitats' for the recovery of endangered species, consider the following matches :

- (a) Sangai — Manipur
- (b) Jerdon's courser — Andhra Pradesh
- (c) Megapode — Andaman and Nicobar
- (d) Hangul — Jammu and Kashmir

Choose the **correct** answer from the options given below :

- (1) All matches are **correct**
- (2) (a) and (d) are **correct**
- (3) (a), (b) and (d) are **correct**
- (4) (a), (c) and (d) are **correct**

[ P. T. C ]