

PLEASE OPEN THE BOOKLET ONLY WHEN DIRECTED BY THE INVIGILATOR.

ಪರೀಕ್ಷಾ ಮೇಲ್ವಿಚಾರಕರು ನಿರ್ದೇಶನ ನೀಡಿದ ನಂತರವೇ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯ ಪುಸ್ತಕವನ್ನು ತೆರೆಯತಕ್ಕದ್ದು.

Total Number of Questions/ಒಟ್ಟು ಪ್ರಶ್ನೆಗಳು : 145

Number of Questions to be answered/ಉತ್ತರಿಸಬೇಕಾದ ಪ್ರಶ್ನೆಗಳ ಸಂಖ್ಯೆ : 100

Maximum Marks/ಗರಿಷ್ಠ ಅಂಕಗಳು : 100

Maximum Time/ಗರಿಷ್ಠ ಸಮಯ : 3 Hours

Booklet Serial No.

23145

CANDIDATES HAVE TO WRITE THE OMR SERIAL NUMBER IN THIS BOX  
ಅಭ್ಯರ್ಥಿಗಳು ಓ.ಎಂ.ಆರ್. ಕ್ರಮಾಂಕವನ್ನು ಈ ಅಂಕಣದಲ್ಲಿ ಬರೆಯತಕ್ಕದ್ದುCANDIDATES HAVE TO WRITE THEIR REGISTER NO. IN THIS BOX  
ಅಭ್ಯರ್ಥಿಗಳು ತಮ್ಮ ರಿಜಿಸ್ಟರ್ ನಂಬರ್‌ನ್ನು ಈ ಅಂಕಣದಲ್ಲಿ ಬರೆಯತಕ್ಕದ್ದುQUESTION PAPER VERSION CODE  
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A

## IMPORTANT INSTRUCTIONS

THIS PAPER HAS 145 QUESTIONS. THE 55 QUESTIONS OF PART A ARE COMPULSORY. BESIDES PART A, CANDIDATES SHOULD ATTEMPT ONLY EITHER PART B OR PART C. HOWEVER, IN CASE ANY CANDIDATE ATTEMPTS BOTH, IN PART OR WHOLE, THE PART IN WHICH HE/SHE SCORES MORE, WILL BE CONSIDERED FOR AWARDED TOTAL MARKS.

Do not carry mobile phones and Calculators during the time of test. You will lose your candidature if you do so.

1. Only Blue or Black colour ball point pen should be used for marking answers and writing OMR Sheet.
2. All the questions carry equal marks.
3. Before opening the booklet, take out the OMR sheet kept inside the question paper carefully and write your name, registration number, Question paper version code, sign at the appropriate place on the OMR sheet and get the invigilator's signature in the place provided in the OMR.
4. Each question is followed by four answers, of which only one is complete and most correct. Please mark the answer which you feel is most correct and complete by fully darkening the oval of that answer in the OMR sheet.
5. There is no negative marking. However if more than one response is marked for a question, the answer shall be evaluated as wrong option marked and the candidate shall be awarded zero marks for that question. Therefore, mark only one answer.
6. In case the response marked by you on the OMR sheet matches the "Key of right answers" as provided by panel of experts, you will be awarded full marks for that question.
7. Do not fold, tear or smudge the OMR sheet. Do not leave any stray marks on the OMR sheet.
8. Blank space on back page of the question paper may be used for rough work.
9. Questions are provided in Kannada and English. However in case of lack of clarity in Kannada version, English version may be referred to as correct.
10. So go ahead. Best of luck.

## ಬಹುಮುಖ್ಯ ಸೂಚನೆಗಳು

ಈ ಪತ್ರಿಕೆಯು 145 ಪ್ರಶ್ನೆಗಳನ್ನು ಒಳಗೊಂಡಿರುತ್ತದೆ. 'ಭಾಗ - ಎ' ಯಲ್ಲಿರುವ 55 ಪ್ರಶ್ನೆಗಳು ಕಡ್ಡಾಯವಾಗಿರುತ್ತವೆ. 'ಭಾಗ - ಎ' ಯನ್ನು ಹೊರತುಪಡಿಸಿ, ಅಭ್ಯರ್ಥಿಯು 'ಭಾಗ - ಬಿ' ಅಥವಾ 'ಭಾಗ - ಸಿ' ಇವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಒಂದನ್ನು ಆಯ್ಕೆ ಮಾಡಿಕೊಳ್ಳಬೇಕು. ಒಂದು ವೇಳೆ ಅಭ್ಯರ್ಥಿಯು 'ಭಾಗ - ಬಿ' ಅಥವಾ 'ಭಾಗ - ಸಿ' ಯಲ್ಲಿರುವ ಪ್ರಶ್ನೆಗಳನ್ನು ಭಾಗಶಃ ಅಥವಾ ಸಂಪೂರ್ಣವಾಗಿ ಉತ್ತರಿಸಿದಲ್ಲಿ, 'ಭಾಗ - ಬಿ' ಅಥವಾ 'ಭಾಗ - ಸಿ' ಯಲ್ಲಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಯಾವ ಭಾಗದ ಪ್ರಶ್ನೆಗಳಿಗೆ ಹೆಚ್ಚು ಅಂಕಗಳು ಬಂದಿರುತ್ತವೆಯೋ, ಆ ಅಂಕಗಳನ್ನು ಮೆರಿಟ್ ಗೆ ಪರಿಗಣಿಸಲಾಗುವುದು. ಪರೀಕ್ಷೆಯ ಸಮಯದಲ್ಲಿ ಮೊಬೈಲ್ ಫೋನ್ ಮತ್ತು ಕ್ಯಾಲ್ಕುಲೇಟರ್ ಗಳನ್ನು ತರಬಾರದು. ನೀವು ಇವುಗಳನ್ನು ಪರೀಕ್ಷಾ ಕೊಠಡಿಯೊಳಗೆ ತಂದಲ್ಲಿ ನಿಮ್ಮ ಅಭ್ಯರ್ಥಿತನವನ್ನು ನೀವು ಕಳೆದುಕೊಳ್ಳುತ್ತೀರಿ.

1. ಓ.ಎಂ.ಆರ್. ಹಾಳೆಯಲ್ಲಿ ಬರೆಯಲು ಮತ್ತು ಉತ್ತರಗಳನ್ನು ಗುರುತಿಸಲು ಕಡ್ಡಾಯವಾಗಿ ನೀಲಿ ಅಥವಾ ಕಪ್ಪು ಬಣ್ಣದ ಬಾಲ್ ಪೆನ್‌ನ್ನು ಉಪಯೋಗಿಸಿ.
2. ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳು ಸಮಾನ ಅಂಕಗಳನ್ನು ಹೊಂದಿರುತ್ತವೆ.
3. ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯನ್ನು ತೆರೆಯುವ ಮೊದಲು ಅದರ ಜೊತೆಯಲ್ಲಿರುವ ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆಯನ್ನು ಸುರಕ್ಷಿತವಾಗಿ ಹೊರಗಡೆ ತೆಗೆಯುವುದು. ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆಯ ನಿಗದಿತ ಸ್ಥಳದಲ್ಲಿ ನಿಮ್ಮ ಹೆಸರು, ನೋಂದಣಿ ಸಂಖ್ಯೆ ಮತ್ತು ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯ ಅವತರಣಿಕೆಯನ್ನು ನಿಗದಿಪಡಿಸಿದ ಕಲಂಗಳಲ್ಲಿ ಭರ್ತಿ ಮಾಡುವುದು ಹಾಗೂ ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆಯ ನಿಗದಿತ ಅಂಕಣದಲ್ಲಿ ಪರೀಕ್ಷಾ ಮೇಲ್ವಿಚಾರಕರ ಸಹಿ ಮಾಡಿಸುವುದು.
4. ಪ್ರತೀ ಪ್ರಶ್ನೆಗೆ ನಾಲ್ಕು ಉತ್ತರಗಳನ್ನು ಕೊಡಲಾಗಿದೆ. ಇವುಗಳಲ್ಲಿ ಒಂದು ಮಾತ್ರ ಪರಿಪೂರ್ಣ ಮತ್ತು ಸರಿಯಾದುದು. ಯಾವ ಉತ್ತರ ಪರಿಪೂರ್ಣ ಮತ್ತು ಸರಿ ಎಂದು ನೀವು ಭಾವಿಸುತ್ತೀರೋ ಅದನ್ನು ಓ.ಎಂ.ಆರ್. ಹಾಳೆಯಲ್ಲಿನ ಉತ್ತರದ ವೃತ್ತವನ್ನು ಸಂಪೂರ್ಣವಾಗಿ ಗುರುತು ಮಾಡುವ ಮೂಲಕ ದಾಖಲಿಸಿ.
5. ನಕಾರಾತ್ಮಕ ಅಂಕಗಳಿರುವುದಿಲ್ಲ. ಆದರೆ, ನೀವು ಒಂದಕ್ಕಿಂತ ಹೆಚ್ಚು ಉತ್ತರವನ್ನು ಒಂದು ಪ್ರಶ್ನೆಗೆ ನೀಡಿದರೆ, ಇವುಗಳನ್ನು ಮಾಲ್ಟಿಮಾಪನ ಮಾಡುವಾಗ ತಪ್ಪು ಆಯ್ಕೆ ಎಂದು ಪರಿಗಣಿಸಿ, ಆ ಪ್ರಶ್ನೆಗೆ ಶೂನ್ಯ ಅಂಕವನ್ನು ನೀಡಲಾಗುವುದು. ಆದ್ದರಿಂದ, ಒಂದೇ ಉತ್ತರವನ್ನು ಗುರುತಿಸಿ.
6. ಒಂದೊಮ್ಮೆ ನೀವು ಗುರುತಿಸಿದ ಉತ್ತರವು ತಪ್ಪು ಸಮಿತಿಯು ನಿರ್ಧರಿಸಿದ ಸರಿಯಾದ ಉತ್ತರಕ್ಕೆ ಹೊಂದಿಕೆಯಾಗುವುದಾದರೆ ಪೂರ್ಣ ಅಂಕಗಳನ್ನು ನಿಮಗೆ ನೀಡಲಾಗುವುದು.
7. ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆಯನ್ನು ಮಡಚುವುದಾಗಲಿ, ಹರಿಯುವುದಾಗಲಿ, ಕೊಳೆ ಮಾಡುವುದಾಗಲಿ ಮಾಡಬಾರದು. ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿ ಅಸಭ್ಯ ರೀತಿಯ ಗುರುತು ಮಾಡಬಾರದು.
8. ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯ ಹಿಂದಿನ ಪುಟದ ಖಾಲಿ ಜಾಗವನ್ನು ನಿಮ್ಮ ಕರೆಡು ಕೆಲಸಕ್ಕೆ ಉಪಯೋಗಿಸಬಹುದು.
9. ಪ್ರಶ್ನೆಗಳನ್ನು ಕನ್ನಡ ಮತ್ತು ಆಂಗ್ಲ ಭಾಷೆಗಳಲ್ಲಿ ನೀಡಲಾಗಿದೆ. ಆದರೆ ಇವೆರಡರ ಮಧ್ಯೆ ಯಾವುದೇ ಅಸಪ್ಪತ್ತೆ ಕಂಡುಬಂದಲ್ಲಿ, ಆಂಗ್ಲ ಭಾಷೆಯ ಪ್ರಶ್ನೆಯನ್ನು ಸರಿಯಾದ ಪ್ರಶ್ನೆಯೆಂದು ಪರಿಗಣಿಸಿ.
10. ಮುಂದುವರೆಯಿರಿ. ನಿಮಗೆ ಶುಭವಾಗಲಿ.

[P.T.O.]



1. Which Article of the Constitution says that it shall be the duty of every citizen of India to protect and improve the natural environment including forests, lakes, rivers and wildlife and to have compassion for living creatures ?

(A)

(A) 51 A(g)

(B) 51 A(j)

(A)

(C) 51 A(h)

(D) 51 A(e)

2. Consider the statements given below with respect to the Padma awards of 2016.

(B)

I. Dr. Vasudev Kalkunte Aatre has been awarded with Padma Vibhushan for medicine.

II. M. Venkatesh Kumar has been awarded with Padma Shri for Hindustani Classical Music.

III. S. S. Rajamouli has been awarded with Padma Shri for film direction.

Select the correct answer from the options given below.

(A) Only I and III are correct

(B) Only II and III are correct

(B)

(C) All I, II and III are correct

(D) Only I and II are correct

3. In which layer of the earth's atmosphere, the 'Ozone layer', is mostly found ?

(C)

(A) Mesosphere

(B) Exosphere

(C)

(C) Stratosphere

(D) Troposphere

4. Three statements are given below followed by three conclusions numbered I, II and III.

(B)

You have to take the given statements to be true even if they seem to be at variance from the commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**Statements :** Some pens are books. All schools are books. Some colleges are schools.

**Conclusions :**

I. Some colleges are pens.

II. Some pens are schools.

III. Some colleges are books.

Choose the correct answer from the options given below.

(A) Only II and III follow

(B) Only III follows

(B)

(C) All I, II and III follow

(D) Only I follows

A

(2)



5. In a certain code, BEAT is coded as YVZG then what will be the code of MILD ?

- (C) (A) NOWR (B) ONWR (C) NROW (D) ONRW (C)

6. The ratio of income to expenditure of a family is 7 : 6. What is the total saving if the income is ₹ 14,000 ?

- (A) (A) ₹ 2,000 (B) ₹ 1,000 (C) ₹ 4,000 (D) ₹ 3,000 (A)

7. In a certain language 'oka peru' means 'fine cloth', 'meta lisa' means 'clear water' and 'dona lisa peru' means 'fine clear weather', which word in that language means 'weather' ?

- (D) (A) oka (B) meta (C) peru (D) dona (D)

8. We know that the people of Indus Valley Civilization had a flourishing system of trade because

- (D) (A) Two large granaries found at Harappa and Mohenjo daro suggest the storage of grain for trade  
(B) Ornaments made in the Indus Valley Civilization have been found at Mesopotamia  
(C) A dockyard has been found at Lothal  
(D) All of the above (D)

9. The Directive Principles of State Policy of the Indian Constitution is an idea borrowed from which Constitution ?

- (C) (A) Russian (B) Australian (C) Ireland (D) America (C)

10. Which of the following countries are members of the ASEAN ?

- (C) 1. Vietnam  
2. Brunei Darussalam  
3. India  
4. Myanmar  
5. Papua New Guinea

Select the correct answer from the options given below :

- (A) 1, 4 and 5 only (B) 1, 2 and 5 only  
(C) 1, 2 and 4 only (D) 1, 2 and 3 only

11. 50 g of an alloy of gold and silver contains 80% gold (by weight). The quantity of gold, that is to be mixed up with this alloy, so that it may contain 95% gold is

- (B) (A) 50 g (B) 150 g (C) 10 g (D) 200 g (B)



12. ₹ 1,000 is invested at 5% per annum simple interest. If the interest is added to the principal after every 10 years, the amount will become ₹ 2,000 after how many years ?

(A)

(A)  $16\frac{2}{3}$  years

(B) 18 years

(A)

(C) 20 years

(D) 15 years

Study the following information carefully and answer the two questions that follow :

A team of five is to be selected from amongst five boys A, B, C, D and E and four girls P, Q, R and S. Some criteria for selection are :

A and S have to be together.

P cannot be put with R

D and Q cannot be together

C and E have to be together

R cannot be put with B

13. If R is one of the members, the other members of the team are

(C)

(A) Q, S, A, D

(B) Q, S, C, E

(C) S, A, C, E

(D) P, S, A, D

(C)

14. If A and C are members, the other members of the team cannot be

(C)

(A) D, E, S

(B) E, S, P

(C) P, Q, E

(D) B, E, S

(C)

15. The Karnataka Legislative Assembly and Legislative Council have how many members respectively ?

(D)

(A) 224 and 76

(B) 221 and 78

(C) 220 and 79

(D) 225 and 75

(D)

16. Consider the following :

(A)

I. Latitude

II. Longitude

III. Altitude

IV. Distance of land and water

V. Distance from the sea

Which of the above determine the climate of India ?

(A) I, III, IV, V only

(B) I, II and III only

(C) I, II, III, IV and V

(D) I, II, III and IV only

(A)

A

(6)



17. What is the difference between the compound interest and simple interest on ₹ 2,500 for 2 years @ 4% per annum ?

(C) (A) ₹ 2

(B) ₹ 3

(C) ₹ 4

(D) ₹ 1

(C)

18. Two buses travel to a place at 45 km/hr and 60 km/hr respectively. If the second bus takes  $5\frac{1}{2}$  hours less than the first for the journey, the length of the journey is

(B) (A) 995 km

(B) 990 km

(B)

(C) 1350 km

(D) 900 km

In the following question, a statement is given followed by two courses of action numbered I and II. You have to presume everything in the statement to be true and on the basis of the information given in the statement, decide which of the suggested courses of action logically follows.

19. **Statement :** There has been a significant drop in the water level of all the lakes supplying water to the city.

(C) **Courses of action :**

I. The water supply authority should impose a partial cut in supply to tackle the situation.

II. The Government should appeal to all the residents through mass media for minimal use of water.

(A) Only II follows

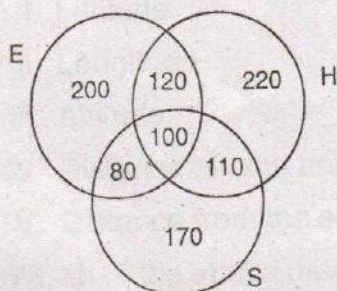
(B) Neither I nor II follows

(C) Both I and II follow

(D) Only I follows

(C)

20. The result of a survey of 1000 persons with respect to their knowledge of Hindi (H), English (E) and Sanskrit (S) is given below :



What is the ratio of those who know all three languages to those who do not know Sanskrit ?

(A) 1/10

(B) 10/17

(C) 5/27

(D) 1/9

A

(8)



21. Which of the following best describes an escrow account ?

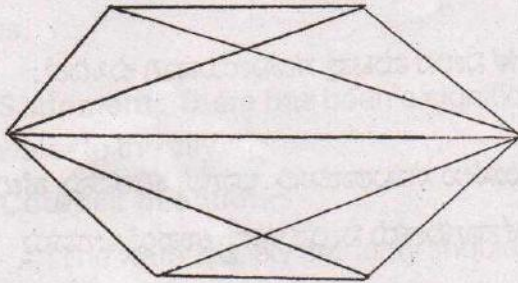
- (C) (A) An account holding the electoral expenses of political parties  
 (B) An account seized by the bank authorities for illegal transactional activities (C)  
 (C) A temporary pass through account held by a third party during the process of a transaction between two parties  
 (D) An account holding black money in foreign countries

22. A batsman has a certain average of runs for 16 innings. In the 17<sup>th</sup> inning, he makes a score of 85 runs thereby increasing the average by 3, what is the average of 17 innings ?

- (D) (A) 35 (B) 36 (C) 38 (D) 37 (D)

23. What is the number of pentagons in the given figure ?

(B)



(B)

- (A) 4 (B) 6 (C) 5 (D) 2

24. The Union Human Resource Minister Shri Prakash Javadekar formally launched Indian Institute of Technology (IIT) in which of the following places of Karnataka ?

- (A) (A) Dharwad (B) Shivamogga (C) Mysuru (D) Belgaum (A)

25. The total expenditure of a family is ₹ 25,000. If it is represented by a Pie Chart and the sector representing transport expenditure is measured by an angle of  $18^\circ$  how much is the expenditure on transport ?

- (D) (A) ₹ 2,500 (B) ₹ 3,250 (C) ₹ 2,000 (D) ₹ 1,250 (D)

26. Which of the following statements about the Vijayanagara Empire is/are true ?

- (A) I. Niccolo de Conti, an Italian Traveler, visited Vijayanagara and has recorded interesting facts about the kingdom.  
 II. Harihara II defeated the King Gajapati Kapilendra of Orissa and seized Kondaveedu.

Select the correct answer from the options given below :

- (A) (A) I only (B) II only (C) I and II (D) None of the above (A)

A



27. Consider the following frequency distribution :

(B)

x	5	10	15	20	25
f	6	a	6	10	5

If the mean of this distribution is 15, then what is the value of 'a' ?

(B)

- (A) 6
- (B) 8
- (C) 0
- (D) 4

28. Choose the analogous pair from the given options chimney : smoke :: ?

(B)

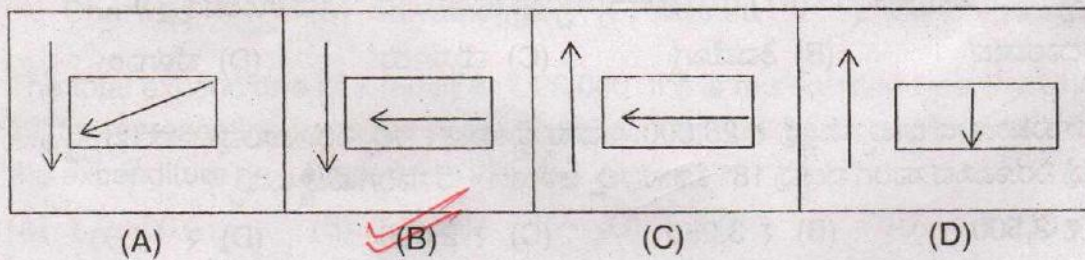
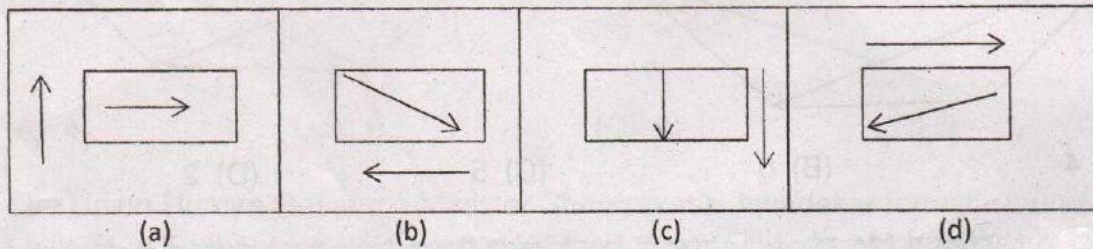
- (A) Clay : Ceramic
- (B) Gun : Bullet
- (C) House : Roof
- (D) Tea : Kettle

(B)

29. By carefully examining the figures (a), (b), (c) and (d), select from the given options

(B)

(A), (B), (C) and (D) the figure which will continue the same series ?



(B)

30. The Pradhan Mantri Fasal Bima Yojana (PMFBY) launched in the year 2016 covers

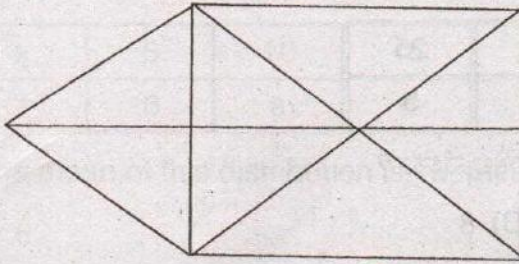
(C)

- (A) Food crops and oilseeds but not annual horticultural and annual commercial crops
- (B) Food crops, oilseeds, annual horticultural crops but not annual commercial crops
- (C) Food crops, oilseeds, annual horticultural crops as well as annual commercial crops
- (D) Only food crops

(C)



31. Find the number of triangles in the given figure :



- (A) 16       (B) 17      (C) 18      (D) 15

32. P, Q, R, S and T are sitting around a circular table facing towards the center, R is to the immediate left of T and second to the right of S. Q is to the immediate right of S and third to the left of P. Who is second to the right of P ?

- (A) R      (B) S      (C) T       (D) Q

33. Which of the following statements is correct about the median ?

- (A) It is not affected by extreme values  
 (B) Median cannot be exactly determined in case of odd number of observations  
 (C) It is the observation with the highest frequency  
 (D) It is based on all the observations

34. The famous Khajuraho temple of Madhya Pradesh was built by the

- (A) Chauhans      (B) Paramaras      (C) Solankis       (D) Chandelas

35. In a class test in English 10 students scored 75 marks, 12 students scored 60 marks, 8 students scored 40 marks and 5 students scored 30 marks. What are the approximate values for arithmetic mean and mode ?

- (A) 50 and 75 respectively      (B) 65.4 and 65 respectively  
 (C) 50 and 60 respectively       (D) 55.4 and 60 respectively

36. Renu can do a piece of work in 80 days. She works at it for 10 days and then Rashmi alone finishes the remaining work in 42 days. In how many days can the two of them complete the work together ?

- (A) 20 days      (B) 40 days      (C) 50 days       (D) 30 days

37. What is the least number which must be subtracted from 10420 to make it a perfect square ?

- (A) 200      (B) 189       (C) 16      (D) 219





38. The 22<sup>nd</sup> Session of the Conference of Parties (COP 22) to the UNFCCC is scheduled to take place in November 2016 in which of the following countries ?

- (C) (A) Germany (B) Argentina (C) Morocco (D) France (C)

39. The Brazilian President who was ousted through impeachment vote in August 2016

- (A) (A) Dilma Rousseff (B) Theresa May (A)  
(C) Angela Merkel (D) Michel Temer

40. Match the Institutions given in Column 'X' with their locations in Column 'Y' :

Column 'X'	Column 'Y'
I. Forest Survey of India (FSI)	a. Hyderabad
II. National Remote Sensing Centre (NRSC)	b. Trombay, Mumbai
III. Bhabha Atomic Research Centre (BARC)	c. Dona Paula, Goa
IV. National Institute of Oceanography (NIO)	d. Dehradun

Choose the correct answer from the options given below :

(A) I - c II - d III - a IV - b

(B) I - d II - a III - b IV - c

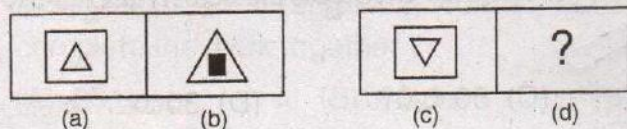
(C) I - a II - d III - b IV - c

(D) I - a II - b III - c IV - d

41. Which of the following is the highest plateau in the world ?

- (A) (A) Tibet (B) Ethiopian (C) Pentagonian (D) Deccan (A)

42. There are two sets of figures given. (a), (b), (c), (d) constitute the problem set while (A), (B), (C) and (D) constitute the answer set. There is definite relationship between figures (a) and (b). Establish a similar relationship between figures (c) and (d) by choosing a suitable figure from the answer set.





43. In which place the Olympics 2020 is going to be held ?

- (D) (A) Canberra (B) Toronto (C) New York (D) Tokyo (D)

44. Koderma, in Jharkhand is the leading producer of which of the following minerals ?

- (A) (A) Mica (B) Copper (C) Bauxite (D) Iron Ore (A)

45. The Right to Education was added to the Fundamental Rights in the Constitution of India through which amendment ?

- (D) (A) Constitution (93<sup>rd</sup> Amendment) Act, 2005  
 (B) Constitution (87<sup>th</sup> Amendment) Act, 2003  
 (C) Constitution (97<sup>th</sup> Amendment) Act, 2011  
 (D) Constitution (86<sup>th</sup> Amendment) Act, 2002 (D)

46. Match the personalities with the titles by which they are known :

(C) Name of the personality	Title
I. Dadabhai Naoroji	a. Frontier Gandhi
II. Sardar Vallabhbhai Patel	b. Deenabandhu
III. C. F. Andrews	c. Grand old man of India
IV. Khan Abdul Ghaffar Khan	d. Iron man of India

Choose the answer from the options given below.

- (A) I - b II - c III - a IV - d  
 (B) I - d II - c III - a IV - b  
 (C) I - c II - d III - b IV - a  
 (D) I - a II - b III - c IV - d (C)

47. Who headed the committee that suggested that poverty line should be determined on the basis of basket of goods and not only on the basis of calorific requirement ?

- (D) (A) C. Rangarajan (B) Bimal Jalan  
 (C) Abhijit Bannerjee (D) Suresh D. Tendulkar (D)

48. A man is thrice as old as his son. Five years ago the man was four times as old as his son. What are the present age of the son and the father respectively ?

- (C) (A) 12, 35 (B) 14, 42  
 (C) 15, 45 (D) 10, 30 (C)



49. Match the name of the waterfall of Karnataka and the district in which it falls :

(B)

**Column X**

- I. Jog Falls
- II. Gaganchukki
- III. Gokak Falls
- IV. Unchalli

**Column Y**

- a. Belgaum
- b. Uttar Kannada
- c. Shivamogga
- d. Mandya
- e. Dakshina Kannada

(B)

Choose the correct options given below.

(A) I - c II - a III - b IV - e

 (B) I - c II - d III - a IV - b

(C) I - c II - a III - b IV - d

(D) I - a II - b III - c IV - d

50. Which of the following fact/facts is/are correct regarding the famous cricketer Anil Kumble ?

(A)

- I. He holds the record for the highest number of wickets in test cricket.
- II. He has been appointed in 2016 as the coach of the Indian National Cricket team.
- III. He has previously served as the Vice-Chairman of the State Wildlife Board.

Choose from the options given below.

 (A) Only II and III are correct

(B) All I, II and III are correct

(C) Only II is correct

(D) Only I and II are correct

(A)

51. Match the names of famous personalities in Column 'X' with the correct description in Column 'Y' :

(C)

**Column X**

- I. Urjit R. Patel
- II. Sarbananda Sonowal
- III. Ajit Doval
- IV. Dalbir Singh Suhag

**Column Y**

- a. Current Chief of Army Staff of Indian Army
- b. Current National Security Adviser of India
- c. Present Chief Minister of Assam
- d. Economist and banker, currently serving as Governor of Reserve Bank of India

Select the answer from the options given below :

(A) I - b II - d III - a IV - c

(B) I - a II - c III - b IV - d

 (C) I - d II - c III - b IV - a

(D) I - d II - b III - c IV - a

(C)



52. In the absence of the President and the Vice-President, who discharges the functions of the President ?

- (B)  (A) Attorney General  
 (B) Chief Justice of India  
 (C) Advocate General  
 (D) Comptroller and Auditor General

53. For which of the following reason the Simon Commission was boycotted by Indians ?

- (B)  (A) It did not recognize the Congress as a party representing the Indian people  
 (B) There was no Indian in the Commission  
 (C) There were differences among the members  
 (D) It supported the Muslim League

54. A rectangular field is 80 m long and 60 m wide. If the fence posts have to be placed at the corners and are 10 m apart along the 4 sides of the fields, how many posts are needed to completely fence the field ?

- (C)  (A) 27  
 (B) 29  
 (C) 28  
 (D) 24

55. Consider the following statements regarding Sukanya Samridhi Yojana, launched by Government of India, in 2014 :

- (D)  I. As on date of opening of the account the age of the girl child should be less than 10 years.  
 II. The girl child should belong to a family below poverty line for opening an account under the scheme.  
 III. The minimum amount that can be deposited is Rs. 1,000.

Select the correct option from the following :

- (A) Only II and III are correct  
 (B) Only I and II are correct  
 (C) All the statements are correct  
 (D) Only I and III are correct

## PART - B

56. A conducting circular loop is placed in a uniform magnetic field  $B = 0.02 \text{ T}$  with its plane perpendicular to the field. Somehow, the radius of the loop starts shrinking at a constant rate of  $1.0 \text{ mm s}^{-1}$ . What will be the induced emf in the loop at the instant when the radius is  $2 \text{ cm}$  ?
- (A) ~~2.5  $\mu\text{V}$~~       (B)  $3.0 \mu\text{V}$       (C)  $4.0 \mu\text{V}$       (D)  $2.0 \mu\text{V}$
57. The net resistance of a voltmeter should be large to ensure that
- (A) It does not draw excessive current  
 (B) It can measure large potential difference  
 (C) It does not appreciably change the potential difference to be measured  
 (D) It does not get overheated
58. Which of the following is not a property of crystalline solids ?
- (A) Anisotropy      (B) Sharp melting point  
 (C) Definite geometry      (D) Isotropy
59. Assuming fully decomposed, the volume of  $\text{CO}_2$  released at STP on heating  $9.85 \text{ g}$  of  $\text{BaCO}_3$  (Atomic mass of  $\text{Ba} = 137$ ) will be
- (A)  $0.84 \text{ L}$       (B)  $2.24 \text{ L}$       (C)  $4.06 \text{ L}$       (D)  $1.12 \text{ L}$
60. Select the correct statement(s) from the following options.
- (A) Optical isomers are also called enantiomers  
 (B) Molecules that are not superimposable on their mirror images are dissymmetric  
 (C) Both are correct  
 (D) None of the above is correct
61. Select the correct statement about valence bond approach.
- (A) Each bond is formed by maximum overlap for its maximum stability  
 (B) It represents localised electron model of bonding  
 (C) Most of the electrons retain the same orbital locations as in a separated atom  
 (D) All the above are correct



62. A free electron is placed in the path of a plane electromagnetic wave. The electron will start moving

- (D) (A) Along the magnetic field  
(B) Along the direction of propagation of the wave  
(C) In a plane containing the magnetic field and the direction of propagation  
~~(D) Along the electric field~~

63. A particular electromagnetic radiation with wavelength 200 nm

- (D) (A) Is in the visible region of the electromagnetic spectrum  
(B) Has a greater speed in vacuum than radiation of wavelength 400 nm  
(C) Has a greater energy content per photon than does radiation with wavelength 100 nm  
~~(D) Has a higher frequency than radiation with wavelength 400 nm~~

64. If the frequency of light in a photoelectric experiment is doubled, the stopping potential will

- (B) (A) Be halved  
(C) Become less than double  
~~(B) Become more than double~~  
(D) Be doubled

65. When an impurity is doped into an intrinsic semiconductor the conductivity of the semiconductor

- (D) (A) Decreases  
(C) Becomes zero  
(B) Remains the same  
~~(D) Increases~~

66. What will you do to prepare a solution that is 0.5 M KCl starting with 100 ml of 0.40 M KCl ?

- (D) (A) add 20 ml of water  
(C) evaporate 10 ml water  
(B) add 0.1 mg KCl  
~~(D) add 0.75 g KCl~~

67. Consider the following two statements :

- (D) I. Kirchhoff's junction law follows from conservation of charge  
II. Kirchhoff's loop law follows from conservative nature of electric field

Choose the correct option from the following :

- (A) I is correct but II is wrong  
(B) II is correct but I is wrong  
(C) Both I and II are wrong  
~~(D) Both I and II are correct~~

68.  $\text{MgSO}_4$  is soluble while  $\text{BaSO}_4$  is insoluble in  $\text{H}_2\text{O}$ . This is because

- (B) (A)  $\text{BaSO}_4$  is more covalent than  $\text{MgSO}_4$   
~~(B) Hydration energy of  $\text{Mg}^{2+}$  is greater than  $\text{Ba}^{2+}$~~   
(C) Lattice energy of  $\text{MgSO}_4$  is greater than  $\text{BaSO}_4$   
(D) Lattice energy of  $\text{BaSO}_4$  is greater than  $\text{MgSO}_4$



69. A transistor is used in common-emitter mode in an amplifier circuit. When a signal of 20 mV is added to the base emitter voltage, the base current changes by 20  $\mu$ A and the collector current changes by 2 mA. The load resistance is 5 k $\Omega$ . What are the  $\beta$  factor and the transconductance respectively ?

- (A)  (A) 100 and 0.1 mho (B) 100 and 1.0 mho  
(C) 10 and 1.0 mho (D) 10 and 0.1 mho

70. Select the incorrect statement from the following with respect to chemical bonding.

- (A)  (A)  $\sigma$  bond is weaker than  $\pi$  bond  
(B) Double bond is stronger than a single bond  
(C) Covalent bond is stronger than a hydrogen bond  
(D) Double bond is shorter than a single bond

71. Two bodies of different temperatures are mixed in a calorimeter. Which of the following quantities remains conserved ?

- (B)  (A) Total heat of the two bodies  
(B) Total internal energy of the two bodies  
(C) Internal energy of the each body  
(D) Sum of the temperatures of the two bodies

72. Naphthalene has some sand impurity. It can be purified by

- (D)  (A) Steam distillation (B) Thin Layer Chromatography (TLC)  
(C) Column of Chromatography (D) Sublimation

73. When a particle moves in a circle with uniform speed

- (C)  (A) Its velocity is constant but acceleration changes  
(B) Its acceleration is constant but velocity changes  
(C) Its velocity and acceleration both change  
(D) Its velocity and acceleration are both constant

74. Which of the following statements about  $H_2O_2$  is not true ?

- (B)  (A)  $H_2O_2$  acts as oxidising as well as reducing agent  
(B) Two hydroxyl groups in  $H_2O_2$  lie in the same plane  
(C) It retains same structure in liquid and solid form  
(D)  $H_2O_2$  is used to clean oil paintings



75. The minimum orbital angular momentum of the electron in a hydrogen atom is

- (B) (A)  $h/2$       ✓ (B)  $h/2\pi$       (C)  $h/\lambda$       (D)  $h$

76. What is the highest wavelength of radiation emitted when hydrogen atoms make transitions from higher states to  $n = 2$  states?

- (C) (A) 487 nm      (B) 756 nm      ✓ (C) 654 nm      (D) 554 nm

77. Select the correct statement(s).

(A)  $-\text{NO}_2$  group activates benzene nucleus for attack of electrophile at ortho and para sites

(B) ✓ (B)  $-\text{NH}_2$  group activates benzene nucleus for attack of electrophile at ortho and para sites

(C) Both (A) and (B)

(D) None of the above

78. A sample of gas ( $\gamma = 1.5$ ) is taken through an adiabatic process in which the volume is compressed from  $1600 \text{ cm}^3$  to  $400 \text{ cm}^3$ . If the initial pressure is 150 kPa what is the final pressure?

- (D) (A) 1000 kPa      (B) 1500 kPa      (C) 1400 kPa      ✓ (D) 1200 kPa

79. At two stages of disintegration, disintegration constants are respectively  $1 \times 10^{-2} \text{ s}^{-1}$  and  $1 \times 10^{-5} \text{ s}^{-1}$ . At first stage 2000 atoms are disintegrating. At second stage number of atoms disintegrating would be

- (A) ✓ (A)  $2 \times 10^6$       (B)  $2 \times 10^{-6}$       (C)  $2 \times 10^9$       (D) 2

80. A heat engine operates between a cold reservoir at temperature  $T_2 = 300 \text{ K}$  and a hot reservoir at temperature  $T_1$ . It takes 200 J of heat from the hot reservoir and delivers 120 J of heat to the cold reservoir in a cycle. What could be the minimum temperature of hot reservoir?

- (A) ✓ (A) 500 K      (B) 600 K      (C) 700 K      (D) 400 K

81. Consider the following reagents :

I.  $\text{Br}_2$  water

II. Tollen's reagent

(B) III. Fehling's solution

Which of the following can be used to make distinction between an aldose and ketose?

- (A) II and III only      ✓ (B) Only I      (C) Only II      (D) I, II and III





82. A positive point charge  $Q$  is brought near an isolated metal cube. What will happen due to this ?

- (C)  (A) The interior remains charge free and the surface gets non-uniform charge distribution  
 (B) The interior becomes positively charged and the surface gets non-uniform charge distribution  
 (C) The interior becomes positively charged and the surface gets non-uniform charge distribution  
 (D) The cube becomes negatively charged

83. IUPAC name of the formula  $\text{CH}_2(\text{COOH})_2$  is

- (A)  (A) Propane - 1, 3 - dioic acid                      (B) Propane - 1, 2 - dioic acid  
 (C) Malonic acid    (D) Botanic acid

84. As per special theory of relativity, at what speed the mass of an electron is double of its rest mass ?

- (B)  (A)  $2.698 \times 10^8 \text{ ms}^{-1}$                        (B)  $2.598 \times 10^8 \text{ ms}^{-1}$   
 (C)  $2.498 \times 10^8 \text{ ms}^{-1}$                        (D)  $2.798 \times 10^8 \text{ ms}^{-1}$

85. Which of the following does not involve coagulation ?

- (C)  (A) Formation of delta region  
 (B) Treatment of drinking water by potash alum  
 (C) Peptisation  
 (D) Clotting of blood by the use of ferric chloride

86. Fuel used for rocket propulsion is a mixture of

- (B)  (A) Hydrazine and TNT  
 (B) Hydroxyl amine and TNT  
 (C) Hydroxyl amine and hydrogen peroxide  
 (D) Hydrazine and hydrogen peroxide

87. A quantity of hydrogen gas occupies a volume of 30.0 ml at a certain temperature and pressure. What volume would half this mass of hydrogen occupy at triple the absolute temperature if the pressure was one-ninth that of the original gas ?

- (A)  (A) 405 ml                      (B) 810 ml                      (C) 81 ml                      (D) None of these

88. With regards to the axis of rotation of a purely rotating body which of the following statement(s) is/are correct ?

- (A)  I. It must pass through the centre of mass  
 II. It may pass through the centre of mass  
 III. It must pass through a particle of the body  
 IV. It may pass through a particle of the body  
 (A) II and IV                      (B) II and III                      (C) I and IV                      (D) I and III



89. Name the scientist who proposed the theory that electron revolves around the nucleus in circular orbits and that the orbit of the electron around the nucleus can only take some special values of radius.

- (C) (A) Heisenberg (B) Einstein  
 (C) Niels Bohr (D) Young

90. The absorption of UV radiation by  $O_3$

- (A) Protects the inhabitants of our planet from injurious radiation  
 (B) Maintains an equilibrium between the concentrations of  $O_2$  and  $O_3$   
 (C) Both of these  
 (D) None of these

91. A man lifts a suitcase from the floor and keeps it on a table. The work done by him on the suitcase does not depend on which of the following factors ?

- (C) I. The path taken by the suitcase  
 II. The time taken by him for lifting the suitcase  
 III. The weight of the suitcase  
 IV. His weight

Choose the answer from the options given below :

- (A) III and IV (B) I and II (C) I, II and IV (D) II and IV

92. Percentage of Nitrogen can be determined by volumetric technique and the method is called

- (A) Kjeldahl's method (B) Hofmann's method  
 (C) Victor's method (D) Puma's method

93. Match Compounds given in column (X) and their uses in column (Y)

(X)	(Y)
a) $Na_2CO_3$	1) Glass
b) $Na_2SO_4$	2) Bleach
c) NaOH	3) $SO_2$ absorber
d) NaOCl	4) Detergent

Which of the following is the correct answer ?

- (A) a-1, b-3, c-4, d-2 (B) a-2, b-4, c-1, d-3  
 (C) a-3, b-2, c-4, d-1 (D) a-4, b-1, c-3, d-2

A



94. What will happen if a pendulum clock keeping correct time is taken to high altitudes ?

- (B)  (A) Its length should be increased to keep correct time  
 (B) Its length should be decreased to keep correct time  
 (C) It cannot keep correct time even if the length is changed  
 (D) It will keep correct time

95. The wavelength associated with a moving electron is given by the formula  $\lambda = h/p$ , where  $h$  is Planck's constant and  $p$  is the momentum of the electron. This wavelength is known as

- (B)  (A) Planck's wavelength  
 (B) De Broglie wavelength  
 (C) Threshold wavelength  
 (D) Photoelectric wavelength

96. According to Kepler's third law of planetary motion, the square of the time period of a planet is proportional to

- (D)  (A) Square of the radius of the orbit  
 (B) Radius of the orbit  
 (C) Inverse of the radius of the orbit  
 (D) Cube of the radius of the orbit

97.  ${}_{17}\text{Cl}^{35}$  and  ${}_{17}\text{Cl}^{37}$  are two isotopes of chlorine. If average atomic mass is 35.5 then ratio of these two isotopes is

- (B)  (A) 1 : 3  
 (B) 3 : 1  
 (C) 2 : 1  
 (D) 35 : 37

98. What happens during a nuclear fission reaction ?

- (B)  (A) A light nucleus bombarded by thermal neutrons breaks up  
 (B) A heavy nucleus bombarded by thermal neutrons breaks up  
 (C) Two light nuclei combine to give a heavier nucleus and possibly other products  
 (D) A heavy nucleus breaks into two equal fragments by itself

99. Which of the following results in the formation of an isotope of the parent element ?

- (B)  (A) Emission of one  $\alpha$  particle  
 (B) Emission of one  $\alpha$  and two  $\beta$  particles  
 (C) Emission of two  $\beta$  particles  
 (D) All of the above

100. The capacitance of a capacitor does not depend on which of the following ?

- (B)  (A) The size of the plates  
 (B) The charges on the plates  
 (C) The separation between the plates  
 (D) The shape of the plates



## PART - C

101. Lysosomes contain

- (A) Carboxylase enzymes  
 (B) Proteinases  
 (C) Hydrolytic enzymes  
 (D) Phosphorylative enzymes

102. Simple lipids are neutral fats yielding \_\_\_\_\_ and \_\_\_\_\_.

- (A) Starch and Proteins  
 (B) Proteins and Fatty acids  
 (C) Glycerol and Fatty acids  
 (D) Glucose and Maltose

103. As a first step in Glycolysis starch is converted into Maltose. What is the name of the enzyme which catalyzes this reaction?

- (A) Carboxylase  
 (B) Amylase  
 (C) Oxidase  
 (D) Maltase

104. Euphorbiaceae is characterized by plants with

- (A) Resin  
 (B) Scales  
 (C) Latex  
 (D) None of the above

105. The region of transition between two biological communities is called as

- (A) Habitat  
 (B) Ecotone  
 (C) Ecocline  
 (D) Niche

106. Which animal is an example to explain industrial melanism?

- (A) Peppered moth  
 (B) Finches  
 (C) *Drosophila melanogaster*  
 (D) Galapagos lizard

107. The thick layer of fat in the cutaneous tissue below the skin in Whales is known as

- (A) Blubber  
 (B) Scrubber  
 (C) Bubbler  
 (D) Rubber

108. The first stage of plant succession in a rock is called

- (A) Crustose lichen stage  
 (B) Mosses stage  
 (C) Floating plants stage  
 (D) Grass stage



109. Which of the following is/are endemic species ?

- (D) (A) Andaman Wild Pig (B) Nicobar Pigeon  
(C) Lion Tailed Macaque (D) All of these

110. The condition in which the two homologous chromosomes do not separate is called as

- (A) (A) Non disjunction (B) Meiosis  
(C) Linkage (D) Chiasma

111. Which of the following has 'Companion cells' ?

- (A) (A) Phloem (B) Both Xylem and Phloem  
(C) Cuticle (D) Xylem

112. Where do you find the Wroughton's free-tailed bat in Karnataka ?

- (C) I. Forest area near Dandeli  
II. Barapedi caves of Belgaum district  
III. Ulavi forest area  
IV. Castle rock forest area  
(A) Only II and III (B) Only I, II and III  
(C) I, II, III and IV (D) Only I and II

113. The Guttation occurs through

- (A) (A) Hydathodes (B) Lenticels (C) Cuticle (D) Stomata

114. Which of the following statements is/are correct ?

- (C) (A) Cork tissue is produced from Phellogen  
(B) Cork tissue is a dead tissue  
(C) Both (A) and (B)  
(D) Neither (A) nor (B)

115. Which of the following glands are included under Endocrine glands ?

- (C) (A) Pituitary gland (B) Thyroid gland  
(C) Both of these (D) None of these

116. The Indian bullfrog generally lacks one of these characters seen in a typical toad

- (D) (A) Ridges on the back (B) Slim waists  
(C) Wrinkled skin (D) Warts on the back



117. The Citric Acid cycle occurs in  
 (B) (A) Cytoplasm (B) Mitochondria (C) Both of these (D) None of these
118. Which of the following is a parasite found on woody trees ?  
 (B) (A) Plasmodium (B) Loranthus (C) Entamoeba (D) None of these
119. Which kind of inflorescence is seen in fig ?  
 (C) (A) Racemose inflorescence (B) Cymose inflorescence  
 (C) (C) Hypanthodium (D) None of the above
120. Which of the following characters the female Peacock has ?  
 (C) (A) Elongated long train of upper-tail feathers  
 (B) Upper tail feathers with colorful eyespots  
 (C) Greenish lower neck and duller brown plumage  
 (D) Predominantly blue in colour
121. *Plasmodium vivax*, that causes Malaria, is a  
 (D) (A) Bacterial parasite (B) Viral parasite  
 (C) Fungal parasite (D) Protozoal parasite
122. Flowering in plants is due to a hormone like substance called  
 (A) (A) Florigen (B) Cytokinins (C) Insulin (D) None of these
123. Insulin is a peptide hormone produced by beta cells of the  
 (C) (A) Liver cells (B) Brain cells  
 (C) (C) Pancreatic islets (D) Thyroid gland
124. In which of the following cambium is absent ?  
 (C) (A) Root of a dicot (B) Stem of a monocot  
 (C) (C) Root of a monocot (D) Stem of a dicot
125. In which of the following plant species, pneumatophores are found ?  
 (D) (A) Banyan (B) Sandalwood  
 (C) Pistia (D) Avicennia
126. Which Islands of Karnataka has Corai reefs ?  
 (B) (A) St. Mary's (B) Nethrani  
 (C) Ranganathittu (D) Malpe



127. Which organism is called the 'Portuguese Man of War' ?  
(A) (A) Physalia (B) Obelia (C) Hydra (D) Aurelia
128. The species '*Calamus lakshmanae*', named after a forest officer, is a \_\_\_\_\_ plant.  
(B) (A) Orchid (B) Cane (C) Sandalwood (D) Bamboo
129. What is the meaning of somnifera in the species '*Withania somnifera*' ?  
(D) (A) Diuretic (B) Energetic (C) Vermifuge (D) Sleep inducing
130. Which organ of Honey Bee produces honey ?  
(A) (A) Alimentary canal (B) Wings (C) Antennae (D) Malpighian tubules
131. Which of the following species is characterized by the silver-white mane that surrounds the head from the cheeks down to its chin ?  
(B) (A) *Macaca mulatta* (B) *Macaca silenus* (C) *Macaca fascicularis* (D) *Macaca macaca*
132. How many traits of pea plant were recognized by Mendel in his experiments ?  
(A) (A) Seven (B) Five (C) Two (D) Four
133. Which of the following characters has given '*Mesua ferrea*' its name ?  
(A) (A) Heaviness and hardness of its timber (B) Soft tissue of the sapwood (C) Attractive leaves (D) Soft nature of the heartwood
134. Which branch of Genetics is related to the improvement of Human race ?  
(B) (A) Anthropology (B) Eugenics (C) Sociology (D) Euthenics
135. '*Gnetum ula*', a woody climber found in the Western Ghats, belongs to which of the following groups ?  
(C) (A) Ferns (B) Angiosperms (C) Gymnosperms (D) None of these
136. What is Abiogenesis ?  
I. Process by which life arrived on earth because of distribution by meteoroids, asteroids, comets etc.  
II. Natural process of life arising from non-living matter present on earth.  
(A) (A) Only II (B) Both I and II (C) Neither I nor II (D) Only I
137. Which of the following is/are an example(s) of 'Connecting link' ?  
I. Egg laying mammals  
II. Archeopteryx  
(A) (A) Both I and II (B) Only II (C) Neither I nor II (D) Only I



138. What is the term used to describe the role and position of a species in its environment ?

- (C) (A) Consumers (B) Ecotone  
 (C) An ecological niche (D) Producers

139. Which of the following theories is associated with the concept of 'Survival of the Fittest' ?

- (D) (A) Inheritance of acquired characters (B) Variation  
 (C) Homeostasis (D) Natural selection

140. In which of the following the inverted ecological pyramid is seen ?

- (B) (A) Pyramid of energy  
 (B) Pyramid of numbers in a parasitic food chain  
 (C) Pyramid of numbers in a pond ecosystem  
 (D) Pyramid of biomass in a grassland

141. Which of the following plants produces the alkaloid 'reserpine' that has medicinal properties ?

- (B) (A) *Tectona grandis*  
 (B) *Rauvolfia serpentina*  
 (C) *Oryza sativa*  
 (D) *Dalbergia latifolia*

142. Which of the following plant's leaves are good source of Vitamin C ?

- (C) (A) *Eleusine coracana*  
 (B) *Elaeocarpus serratus*  
 (C) *Oxalis corniculata*  
 (D) *Gyrocarpus americanus*

143. In which of the following processes carbon dioxide is fixed ?

- (C) (A) Glycolysis (B) Light reaction (C) Calvin's cycle (D) Krebs cycle

144. What is IPCC ?

- (A) (A) Intergovernmental Panel on Climate Change  
 (B) Indian Panel on Climate Change  
 (C) Indian National Panel on Climate Change  
 (D) International Panel on Climate Change

145. Which genome is present along with proteins in the Bacteriophage ?

- (B) I. DNA  
 II. RNA  
 (A) Only II (B) Either I or II  
 (C) Neither I nor II (D) Only I