

DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

# RRB GROUP D

## TEST SERIES

DATE- \_\_/\_\_/\_\_

DAY- \_\_\_\_\_

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

SG Set 08

QUESTION- 100

MARKS- 100

NEGATIVE MARK- 0.33

DURATION- 90 MIN.

1. Use only ball pens with black or blue ink
2. As soon as the examination starts, you must check this question booklet and if there is any unprinted, mutilated or partially printed page or question in it, then replace it with the correct question booklet through the examiner.
3. There are a total of 100 questions in this question booklet.
4. This is an objective test, in which four options are given for the answer to each question, you have to choose only one option with the correct answer out of these four options.
5. Answers to all questions are to be written on separate answer sheets.

6. Instructions for filling the answer sheet are written on the back side of the answer sheet, read them carefully before filling the answer sheet.
7. Blank pages are available in this question booklet for rough work.
8. Candidates cannot leave the room before the end of the examination.
9. After the examination is over, you can go out only with his permission after submitting the ORIGINAL COPY of the answer sheet to the invigilator.
10. After the completion of the examination, the candidate is allowed to take the question booklet and answer sheet with him/her.
11. 1 marks will be given for each correct answer and 0.33 marks will be deducted for each wrong answer.



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Total: 100 Que.

RRB Group D 2025 - Set 08 English  
Language

Time: 90 Min.

**Group D**

- 1). Which of the following is not the part of animal husbandary?  
(a) Apiculture (b) Aquaculture (c) Pisciculture  
(d) Arboriculture
- 2). In MOET, the fertilized eggs are non-surgically recovered and transferred to surrogate mother. Which of the following is the stage at which the fertilized eggs are recovered?  
(a) 8-16 (b) 8-32 (c) 4-8 (d) 4-16
- 3). What do you mean by inbreeding depression?  
(a) It is mating of closely related individuals within same breed for 4-6 generation  
(b) It results in superior progeny  
(c) It is a type of breeding between two breeds resulting in homozygosity increases.  
(d) It is continued breeding closely related individuals for many generations resulting in reduce in fertility and productivity.
- 4). The process of translation takes place in the:  
(a) Nucleus (b) Golgi Bodies (c) Cytoplasm  
(d) Nucleolus
- 5). Which of the following was the first human-like hominid?  
(a) Dryopithecus (b) Homo habilis  
(c) Homo erectus (d) Australopithecus
- 6). Which among the following is also called the 'Southern ape'?  
(a) *Homo erectus* (b) Dryopithecus  
(c) *Ramapithecus* (d) *Australopithecus*
- 7). What is the study of past life based on fossil records called?  
(a) Palaeontology (b) Geology (c) Fossilology  
(d) Sedimentology
- 8). What is the causative organism of AIDS?  
(a) Bacterium (b) Protozoa (c) Retrovirus  
(d) Fungi
- 9). Which of the following species is not included in Poultry management?  
(a) Pork and rabbit (b) Geese and turkeys  
(c) Chicken and ducks (d) dove and pigeon
- 10). Clemmensen reduction of a ketone is carried out in the presence of which of the following?  
(a)  $H_2$  and Pt as catalyst (b) Glycol with KOH  
(c) Zn-Hg with HCl (d)  $LiAlH_4$
- 11). Which can adsorb larger volume of hydrogen gas?  
(a) Colloidal solution of palladium  
(b) Finely divided nickel (c) Finely divided platinum  
(d) Colloidal  $Fe(OH)_3$
- 12). Emulsifier is an agent which  
(a) Accelerates the dispersion  
(b) Stabilises the emulsion  
(c) Homogenizes the emulsion  
(d) Dissociate emulsions
- 13). The potential difference between the fixed charged layer and the diffused layer having opposite charge is called  
(a) Zeta potential (b) Streaming potential  
(c) Dorn potential (d) Colloidal potential
- 14). In the preparation of AgI sol,  $AgNO_3$  is added to excess of potassium iodide solution. The particles of the sol will acquire  
(a) Negative charge (b) Positive charge  
(c) No charge (d) Unpredictable
- 15). Most effective coagulant for a colloidal solution of arsenic sulphide in water is  
(a) 0.1 M sodium phosphate (b) 0.1 M zinc sulphate  
(c) 0.1 M zinc nitrate (d) 0.1 M aluminium chloride



16). When  $\text{SO}_2$  gas is bubbled into  $\text{H}_2\text{S}$  gas

- (a) Lyophilic sol of sulphur is formed
- (b) Lyophobic sol of sulphur is formed
- (c) Suspension of water and sulphur is formed
- (d) A true solution of sulphur in water is formed

17). The stabilization of the dispersed phase in a lyophobic sol is due to

- (a) The viscosity of the medium
- (b) The surface tension of the medium
- (c) Affinity for the medium
- (d) The formation of an electrical double layer between the two phases

18). The binding energy of an electron in the ground state of He-atom is  $E_0 = 24.6$  eV. How much energy is required to remove both electrons from the atom?

- (a) 24.6 eV (b) 79.0 eV (c) 54.4 eV
- (d) none of these

19). Which of the following is not true of coupling capacitor?

- (a) It is used as mediator for connection of circuits.
- (b) It is used to block DC current.
- (c) It is used to maintain voltage bias.
- (d) It is used to increase voltage gain.

20). The average uniform velocity acquired by free electrons inside a metal by the application of an electric field is called as

- (a) Instantaneous velocity (b) Escape velocity
- (c) Terminal velocity (d) Drift velocity

21). What is the function of the receiver?

- (a) Converts signal into electric form
- (b) Reducing noise during transmission
- (c) Operating on the received signal
- (d) Converting the signal into a useful form

22). The saturation current in second case is

- (a) 5.2  $\mu\text{A}$  (b) 6.6  $\mu\text{A}$  (c) 9.6  $\mu\text{A}$  (d) 13.2  $\mu\text{A}$

23). Angle of minimum deviation for a prism of refractive index 1.5 is equal to the angle of prism. The angle of prism is ( $\cos 41^\circ = 0.75$ )

- (a)  $62^\circ$  (b)  $41^\circ$  (c)  $82^\circ$  (d)  $31^\circ$

24). What is the expression for electrical energy spent in the flow of current through an appliance in

terms of current, resistance and time?

- (a)  $I^2 R t$  (b)  $I R t$  (c)  $I R^2 t$  (d)  $I R^2 t^2$

25). A capacitor gets a charge of 60  $\mu\text{C}$  when it is connected to a battery of emf 12 V. Calculate the capacitance of the capacitor

- (a)  $2\mu\text{F}$  (b)  $3\mu\text{F}$  (c)  $4\mu\text{F}$  (d)  $5\mu\text{F}$

26). Find out the wrong number in the given series:

62, 46, 34, 24, 16, 10

- (a) 62 (b) 46 (c) 34 (d) 24

27). In each of the following number series is a wrong number, find out wrong number.

1, 4, 25, 256, 3125, 46656, 823543

- (a) 3125 (b) 823543 (c) 46656 (d) 25

28). Consider the following statement:

The Third World War, if it ever starts, will end very quickly with the possible end of civilization. It is only the misuse of nuclear power that will trigger it. Based on the above statement, which one of the following inferences is correct?

- (a) Nuclear power will be used in the Third World War.
- (b) There will be no civilization left after the Third World War.
- (c) The growth of nuclear power will destroy civilization in the long run.
- (d) The Third World War will not take place.

29). All good athletes want to win and all athletes who want to win eat a well-balanced diet; therefore all athletes who do not eat a well-balanced diet are bad athletes.

The best conclusion from this statement is that-

- (a) no bad athlete wants to win.
- (b) no athlete who does not eat a well-balanced diet is a good athlete.
- (c) every athlete who eats a well-balanced diet is a good athlete.
- (d) all athletes who want to win are good athletes.

30). In the following question find out which of the answer figure can be formed from the pieces given in figure X.



(X)



(a) (b) (c) (d)

- (a) Figure (a) (b) Figure (b) (c) Figure (c)  
(d) Figure (d)

31). In the following question, select the related letters from the given alternatives.

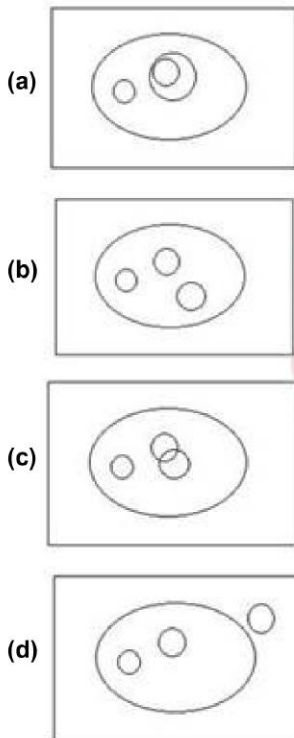
NPR : GHI :: TVX : ?

- (a) JKL (b) KLM (c) IJK (d) IKL

32). In the following question, select the related number from the given alternatives.  
3 : 30 :: 7 : ?

- (a) 310 (b) 320 (c) 340 (d) 350

33). Identify the diagram that best represents the relationship among the given classes.  
Mensuration, Geometry, Trigonometry, Mathematics



34). Bhargav is in the north of Bhairav at a distance of 7m who is 17m to the north-west of Manas. Manas moves 3m towards north direction and reach at point P. Point P is in which direction with respect to Bhargav?

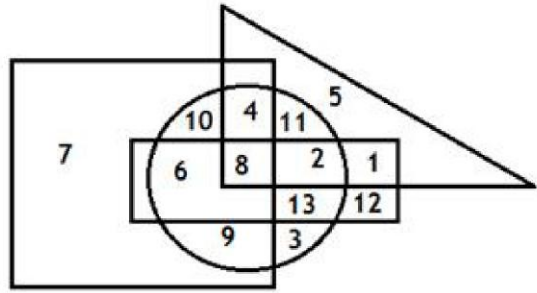
- (a) South-West (b) South-East (c) North-East  
(d) North-West

35). A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

MNO, TUV, BCD, KLM, ?

- (a) UWV (b) UVW (c) WUV (d) VUW

36). In the given figure below, the triangle represents Singer, the circle Dancer, the rectangle Actor and square engineer. Find out the engineer who are dancer and actor but not singer?



- (a) 6 (b) 8 (c) 2 (d) 11

37). Three of the following four words are alike in a certain way and one is different. Find the odd one out.

- (a) Lawyer (b) Doctor (c) Engineer (d) Education

38). In the following question, select the odd word from the given alternatives.

- (a) India (b) North America (c) Europe  
(d) Australia

39). Pointing to a man, Ashok says, "he is my elder brother's wife's father-in-law", then how is the man related to Ashok?

- (a) Cousin (b) Father (c) Uncle (d) Son

40). A girl is facing west direction. She turns in the clockwise direction  $45^\circ$  and  $180^\circ$  respectively. She then turns  $270^\circ$  in the anticlockwise direction. Which direction is she facing now?

- (a) South (b) North-east (c) West (d) South-west

41). Direction: In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the following assumption and decide which of the assumption is implicit in the statement.

Statement: The Municipal Corporation has announced 60% reduction in the water supply till monsoon arrives in the city X.

Assumptions:

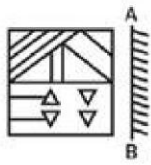
I. The Municipal Corporation may reduce its taxes from the residents as it failed to provide adequate water.

II. Against this unilateral decision of the Municipal Corporation, people may decide to conduct a protest.

- (a) If only I implicit. (b) If only II implicit.  
(c) If both I and II are implicit.  
(d) If neither I nor II implicit.



- 42). Select the correct mirror image of the given figure when the mirror is placed at line AB.



- (a) (b) (c) (d)

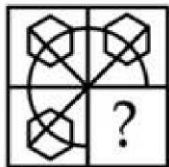
- 43). In a certain code language, 'REASON' is written as 'SDBRPM'. What is the code for 'NGLISH' in that code language?

- (a) PGMIUH (b) OFMHTG (c) PGNIUH  
(d) OEMHTG

- 44). In a certain code language, 'PAPER' is written as 'UFUJW'. What will be the code for 'MOURN' in that code language?

- (a) SUBXT (b) RTAWS (c) RTZWS (d) SUAXT

- 45). Study the given pattern carefully and select the figure that will complete the pattern given in the question figure.



- (a) (b) (c) (d)

- 46). A person travels in North-East direction for 17 km, then he travels 8 km in the south direction. How far he is from his starting position?

- (a) 10 km (b) 8 km (c) 15 km (d) 12 km

- 47). It was Sunday on 27 January 2002. What will be the day on 27 January 2022?

- (a) Thursday (b) Friday (c) Tuesday  
(d) Wednesday

- 48). A + B means A is the uncle of B.  
A - B means A is the sister of B.  
A ÷ B means A is the mother of B.

A x B means A is the son of B.

In expression P - Q x R + S ÷ T, how is Q related to T?

- (a) Maternal uncle (b) Fraternal uncle  
(c) Maternal aunt (d) Fraternal aunt

- 49). A statement followed by some conclusions are given below.

Statement: Nowadays, life has become very difficult without a mobile phone.

Conclusions:

- I. Total number of mobile subscribers is increasing.  
II. Mobile has become an integral part of life.

Find which of the given conclusions logically follows from the given statement.

- (a) Only conclusion I follows  
(b) Neither I nor II follows (c) Both I and II follow  
(d) Only conclusion II follows

- 50). What will be the next number in the series?

12, 48, 240, \_\_\_\_\_

- (a) 480 (b) 440 (c) 1200 (d) 1440

- 51). If A is the brother of the son of B's son, how is A related to B?

- (a) Grandson (b) Brother (c) Son (d) Father

- 52). Below are given statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.

Statements:

Some Editors are Actors.

All the Actors are Writers.

Conclusions:

- I. Some Editors and Writers.  
II. No Actor is Editor.

- (a) Neither Conclusion I nor II follow.  
(b) Only Conclusion II follows.  
(c) Only Conclusion I follows.  
(d) Either Conclusion I or II follows.

- 53). A question and three statements labelled (I), (II) and (III) are given. You have to decide which statement(s) is/are sufficient to answer the question.  
Question: What is Aman's rank in the class?

Statements:

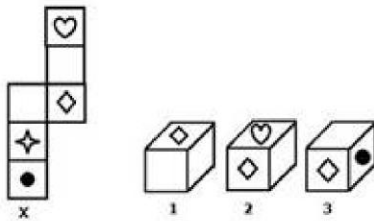
I. Aman has scored more than 90% of students of the class.

II. Ajay has scored the maximum marks in the class of 20 students.

Select the correct answer:

- (a) Only statement I is sufficient.  
 (b) Only statement II is sufficient.  
 (c) Data is not sufficient.  
 (d) Both I and II together are sufficient.

- 54). Select the correct box number from given alternatives which is similar to the box formed from the given sheet of paper X.



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

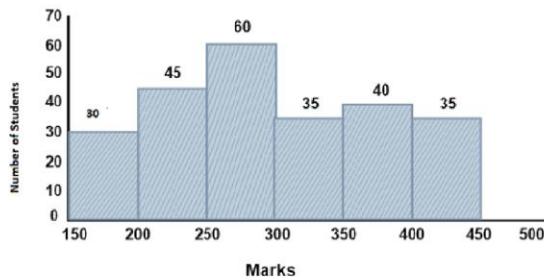
- 55). If March 27, 1999, is Saturday, then what is the day of the week on February 2, 2007?

- (a) Sunday (b) Friday (c) Tuesday  
 (d) Wednesday

- 56). If an article is bought for ₹400 and sold for ₹500, what is the profit percentage?

- (a) 20% (b) 25% (c) 50% (d) 10%

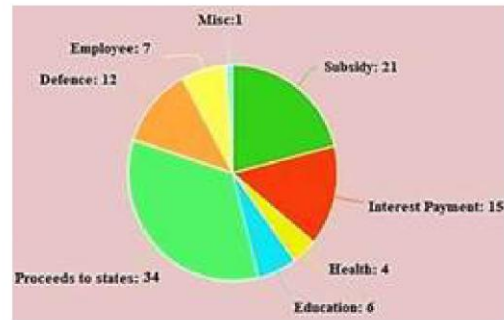
- 57). **Direction:** Study the given histogram that shows the marks obtained by students in an examination and answer the question that follows.



The number of students who obtained less than 200 marks is:

- (a) 75 (b) 30 (c) 45 (d) 135

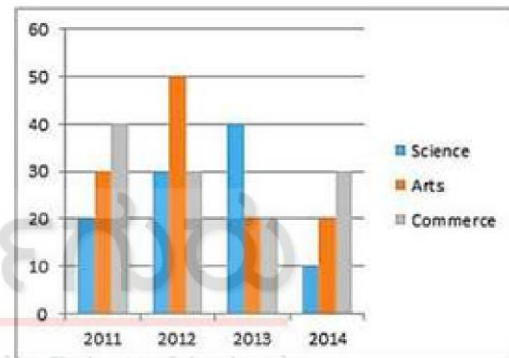
- 58). **Direction:** The following pie chart shows percentage expenditure of a country on different heads. The total expenditure is Rs.1,680 (in billions). Study the chart and answer the question.



The expenditure for Proceeds to state (in billions) is:

- (a) 571.20 (b) 586.50 (c) 684 (d) 126

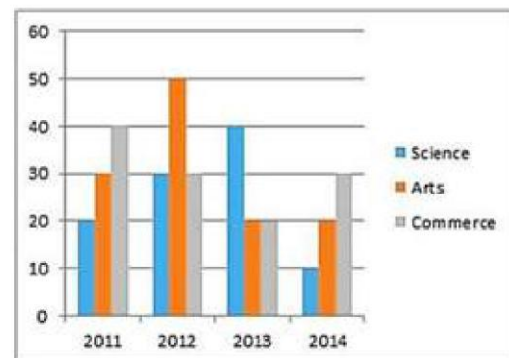
- 59). **Direction:** The number of students in Class XI in Science, Arts and Commerce streams of a school over a period of 4 years (2011 - 2014) has been depicted through the bar chart given below.



What is the difference between the averages of the number of Science and Commerce students in the given class over the given period of 4 years?

- (a) 8 (b) 10 (c) 12 (d) 5

- 60). **Direction:** The number of students in Class XI in Science, Arts and Commerce streams of a school over a period of 4 years (2011 - 2014) has been depicted through the bar chart given below.



What is the average of the number of Arts students in the given class over the given period of 4 years?

- (a) 25 (b) 30 (c) 35 (d) 32



61). A train covers 400 km at a uniform speed. If the speed had been 10 km/h more, it would have taken 2 hours less for the same journey. What is the usual time taken (in hours) by it to complete the journey?

- (a) 12 (b) 15 (c) 8 (d) 10

62). The value of

$$\frac{2}{3} \div \frac{3}{10} \text{ of } \frac{4}{9} - \frac{4}{5} \times 1\frac{1}{9} \div \frac{8}{15} + \frac{3}{4} \div \frac{1}{2} \text{ is:}$$

- (a)  $\frac{29}{6}$  (b)  $\frac{17}{9}$  (c)  $\frac{14}{3}$  (d)  $\frac{49}{12}$

63). A pump can fill a tank with water in 1 hour. Because of a leak, it took  $\frac{4}{3}$  hours to fill the tank. In how many hours can the leak alone drain all the water of the tank when it is full?

- (a) 5 (b) 1 (c) 2 (d) 4

64). When a number is successively divided by 3, 4 and 7, the remainder obtained is 2, 3 and 5, respectively. What will be the remainder when 42 divides the same number?

- (a) 41 (b) 30 (c) 29 (d) 31

65). An article was sold at a loss of 13.5%. If it was sold for ₹1,104 more, then there would have been a profit of 9.5%. The cost price of the article was:

- (a) ₹4,600 (b) ₹4,800 (c) ₹4,400 (d) ₹4,200

66). How many numbers between 300 and 700 are divisible by 5, 6 and 8?

- (a) 3 (b) 2 (c) 5 (d) 20

67). The simple interest on a sum of money at 10% per annum for 2 years is ₹8,100. What would be the compound interest (in ₹) on the same sum for the same period at 15% p.a., when the interest is compounded yearly? (Nearest to ₹1)

- (a) 8,100 (b) 12,751 (c) 14,671 (d) 13,061

68). On a marked price, the difference of selling prices with a discount of 35% and two successive discounts of 20% and 15%, is ₹504. The marked price of the article (in ₹) is:

- (a) 16,000 (b) 16,800 (c) 15,500 (d) 18,000

69). The sides PQ and PR of  $\triangle PQR$  are produced to points S and T, respectively. The bisectors of  $\angle SQR$  and  $\angle TRQ$  meet at U. If  $\angle QUR = 59^\circ$ , then the measure of  $\angle P$  is:

- (a)  $31^\circ$  (b)  $62^\circ$  (c)  $41^\circ$  (d)  $49^\circ$

70). If  $a + b + c = 0$ , then the value of

$$\frac{a^2}{bc} + \frac{b^2}{ac} + \frac{c^2}{ab} \text{ is:}$$

- (a) 1 (b) 3 (c) -1 (d) 0

71). In a school,  $\frac{5}{12}$  of the number of students are girls and the rest are boys.  $\frac{4}{7}$  of the number of boys are below 14 years of age, and  $\frac{2}{5}$  of the number of girls are 14 years or above 14 years of age. If the number of students below 14 years of age is 1120, then the total number of students in the school is:

- (a) 1820 (b) 1290 (c) 1900 (d) 1920

72). The base of a triangle is equal to the perimeter of a square whose diagonal is  $9\sqrt{2}$  cm, and its height is equal to the side of a square whose area is  $144 \text{ cm}^2$ . The area of the triangle (in  $\text{cm}^2$ ) is:

- (a) 216 (b) 72 (c) 144 (d) 288

73). A ladder is resting against a wall, the angle between the foot of the ladder and the wall is  $45^\circ$  and the foot of the ladder is 6.6 m away from the wall. The length of the ladder (in m) is:

- (a)  $6.6 \times \sqrt{2}$  (b)  $3.3 \times \sqrt{2}$  (c)  $2.2 \times \sqrt{2}$  (d)  $3.6 \times \sqrt{2}$

74). Solve for  $\theta$ :  $\cos^2 \theta - \sin^2 \theta = \frac{1}{2}$ ,  $0 < \theta < 90^\circ$ .

- (a)  $45^\circ$  (b)  $60^\circ$  (c)  $30^\circ$  (d)  $40^\circ$

75). The HCF of two numbers is 29, and the other two factors of their LCM are 15 and 13. The smaller of the two numbers is:

- (a) 377 (b) 406 (c) 435 (d) 464

76). On the marked price of ₹1,250 of an article, three successive discounts of 5%, 15% and 20% were offered. The amount (in ₹) of discount received by a customer is:

- (a) 442.50 (b) 950.25 (c) 450 (d) 807.50

77). If  $\cot \theta = \frac{1}{\sqrt{3}}$ ,  $0^\circ < \theta < 90^\circ$ , then the value of

$$\frac{2 - \sin^2 \theta}{1 - \cos^2 \theta} + (\operatorname{cosec}^2 \theta - \sec \theta) \text{ is:}$$

- (a) 0 (b) 2 (c) 5 (d) 1

78). Two circles of radii 15 cm and 10 cm intersect each other and the length of their common chord is 16 cm. What is the distance (in cm) between their centres?

- (a)  $12 + 3\sqrt{7}$  (b)  $15 + 2\sqrt{161}$  (c)  $10 + \sqrt{161}$   
(d)  $6 + \sqrt{161}$

79). The value of  $7 \div [5 + 1 \div 2 - \{4 + (4 \text{ of } 2 \div 4) + (5 \div 5 \text{ of } 2)\}]$  is:

- (a) 7 (b)  $\frac{7}{2}$  (c) -7 (d)  $-\frac{7}{2}$

80). Two pipes A and B can fill a cistern in 12.5 hours and 25 hours, respectively. The pipes are opened simultaneously and it is found that due to a leakage in the bottom, it took 1 hour 40 minutes more to fill the cistern. When the cistern is full, in how much time will the leak empty the cistern?

- (a) 45 hours (b) 42 hours (c) 48 hours  
(d) 50 hours

81). Which of the following Grand Slam tournaments is not matched with the respective sports court?

- (a) French open-clay court  
(b) Australian Open - Hard Court  
(c) Wimbledon - Grass Court  
(d) US Open-Clay Court

82). Which Indian player won both the gold and bronze medal Parachuting World Cup (2021) held in Al Ain, United Arab Emirates?

- (a) Rahul Jakhar (b) Sinharaj (c) Avani Lakhara  
(d) Siddharth Babu

83). What does C stands for in the term MNC ?

- (a) Company (b) Corporation (c) Capital (d) Cost

84). India can import which of the following from the developed countries to improve the country's economy?

- (a) Latest technology (b) Capital goods  
(c) Infrastructure (d) Drainage system

85). The Ural Mountains separate Asia from which continent?

- (a) North America (b) Africa (c) Europe  
(d) Australia

86). The Yellow Sea is located between mainland China and which Peninsula?

- (a) Malay Peninsula (b) Indochina Peninsula  
(c) Korean Peninsula (d) Shakotan Peninsula

87). Recently, FIFA has suspended the football federation of which country?

- (a) Afghanistan (b) America (c) Pakistan  
(d) Bangladesh

88). Recently, after America, which country has now decided to exit WHO?

- (a) Argentina (b) France (c) Germany  
(d) Ukraine

89). Sixty percent of the world's people stay in just how many countries?

- (a) Twelve (b) Eight (c) Ten (d) Fifteen

90). The state of Mizoram shares its border with how many neighbouring countries?

- (a) One (b) Two (c) Three (d) Four

91). Who was credited with preparing the Lotus Song, a translation of 'Gita' into English.

- (a) Annie Besant (b) Indira Gandhi  
(c) Swami Vivekanand (d) Amartya Sen

92). Which of the following personalities was the leader of the US forces during the American Revolution?

- (a) John Adams (b) Thomas Jefferson  
(c) George Washington (d) Samuel Adams

93). Mountains arranged in a \_\_\_\_\_ is known as Range.

- (a) Line (b) Circle (c) Hexagon (d) Pentagon

94). The Ocean basins are broadly divided into how many major sub-divisions ?

- (a) three (b) two (c) four (d) six

95). Which of the following is not a part of the United Nations structure?

- (a) General Assembly (b) Security Council  
(c) Economic and Social Council  
(d) Education Council

96). Roscosmos is a space agency of which country?

- (a) China (b) Russia (c) Japan (d) South Korea

97). Consider the following statements about 'Congress' and choose the false one-



- (a) The Congress got split into Moderates and Extremists in 1907.  
(b) The Congress reunited in 1915.  
(c) The Indian National Congress was established in Bombay in December 1886.  
(d) Bal Ganga Dhar Tilak was an Extremist.
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98). False statement about the Government of India Act of 1935 is-

- (a) The franchise was limited to about one-sixth of the adults.  
(b) The act contained a provision of convening a Constituent Assembly for India.  
(c) There was no mention of universal adult franchise in the act.  
(d) The Governors, appointed by the British Government, retained special powers.

99). In the context of the first World War the incorrect match is-

- (a) Russia - Allies (b) Britain - Central powers  
(c) Germany - Central powers  
(d) Turkey - Central powers
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100). The first modern Olympics were held in \_\_\_\_\_ in the year\_\_\_\_\_.

- (a) Athens 1896 (b) Paris 1900 (c) London 1908  
(d) Stockholm 1900
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