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**UP B.Ed**  
**Previous Year Paper**  
**2018**



**UTTAR PRADESH**  
**B.Ed. Joint Entrance Exam**

# Solved Paper 2018

## Paper I

### Part I : General Knowledge

1. The country which is known as the 'Land of Rising Sun'?  
(a) Myanmar (b) Japan  
(c) India (d) Norway
2. By which Constitutional Amendment, the voting age was reduced from 21 to 18 years?  
(a) 55th Amendment Act, 1986  
(b) None of these  
(c) 61st Amendment Act, 1989  
(d) 56th Amendment Act, 1987
3. World Teachers' Day is celebrated on  
(a) 5th October (b) 5th December  
(c) 5th August (d) 5th September
4. The Khalsa Panth was founded by  
(a) Guru Tegh Bahadur (b) Guru Gobind Singh  
(c) Guru Hargobind (d) Guru Nanak Dev
5. Bhakhra Nangal Project is situated on which river?  
(a) Mahanadi (b) Sutlej  
(c) Krishna (d) Tapti
6. Solar eclipse occurs when  
(a) Sun comes between the Earth and Moon  
(b) None of these  
(c) Earth comes between the Sun and Moon  
(d) Moon comes between the Sun and Earth
7. NCTE stands for  
(a) National Council for Teacher Education  
(b) None of these  
(c) National Commission for Teacher Education  
(d) National Council of Teacher Education
8. How many Tirthankaras are according to Jainism?  
(a) 24 (b) 25  
(c) 20 (d) 22
9. Limestone when metamorphosed becomes  
(a) Marble (b) Quartzite  
(c) Granite (d) Slate
10. A bank is scheduled bank if  
(a) It is the nomenclature sometimes used for Government and Cooperative Banks  
(b) None of these  
(c) It is included in the list of banks nationalised in 1969 and later also  
(d) It is listed in the second schedule attached to the RBI Act, 1934
11. How many members can the President of India nominate to the Rajya Sabha?  
(a) 12 members (b) 15 members  
(c) 06 members (d) 09 members
12. Booker Prize is won in the field of  
(a) Fiction Writing (b) Adventure  
(c) Science (d) Medicine



- 13.** The term 'Fourth Estate' refers to  
 (a) The Judiciary (b) The Press  
 (c) The Legislature (d) The Executive
- 14.** Who was called as 'The Indian Napoleon'?  
 (a) Samrat Ashok  
 (b) Chandragupta Maurya  
 (c) Samudragupta  
 (d) Chandragupta Vikramaditya
- 15.** Shobhana Gurtu is the exponent of  
 (a) Kheyal and Dhrupad  
 (b) None of these  
 (c) Kheyal  
 (d) Thumri
- 16.** Which planets in the solar system are known as 'Inferior Planets'?  
 (a) Mars and Mercury (b) Mercury and Venus  
 (c) Earth and Mars (d) Earth and Mercury
- 17.** The common name of Retinol is  
 (a) Vitamin C (b) Vitamin D  
 (c) Vitamin A (d) Vitamin B
- 18.** Palk Strait separates the two countries  
 .....  
 (a) Pakistan and Sri Lanka  
 (b) Britain and France  
 (c) India and Pakistan  
 (d) India and Sri Lanka
- 19.** Prerogatives of Election Commission are enshrined in Constitution under Article  
 (a) 350 (b) 356 (c) 280 (d) 324
- 20.** Pongal is the festival of  
 (a) Tamil Nadu (b) West Bengal  
 (c) Assam (d) Kerala
- 21.** Which state became the 29th state of India in 2014?  
 (a) Telangana (b) None of these  
 (c) Uttarakhand (d) Chhattisgarh
- 22.** Name of the Parliament of Japan is  
 (a) SHORA (b) MAJLIS  
 (c) DIET (d) KNESSET
- 23.** Where is the capital of Oman?  
 (a) Riyadh (b) Ramallah  
 (c) Abu Dhabi (d) Muscat
- 24.** Bihu is the chief festival of  
 (a) Assam  
 (b) Gujarat  
 (c) Orissa  
 (d) West Bengal
- 25.** Fundamental duties are described in Article ..... of the Constitution of India.  
 (a) 29 (b) 51A (c) 12 (d) 15
- 26.** ..... is caused due to the deficiency of Vitamin C.  
 (a) Pellagra (b) Beriberi  
 (c) Osteomalacia (d) Scurvy
- 27.** Which period has been earmarked to achieve Sustainable Development Goals (SDGs) by the UN?  
 (a) 2011-2025 (b) 2016-2030  
 (c) 2001-2015 (d) 2006-2020
- 28.** Kailash Satyarthi is associated with  
 (a) Nirmal Bharat Abhiyan  
 (b) Bachpan Bachao Andolan  
 (c) Narmada Bachao Andolan  
 (d) Chipko Andolan
- 29.** Who had presented the last separate Railway Budget of India in 2016?  
 (a) Arun Jaitley (b) Suresh Prabhu  
 (c) Piyush Goyal (d) Manoj Sinha
- 30.** Before becoming the President of India Shri Ram Nath Kovind was the Governor of  
 (a) Bihar (b) Rajasthan  
 (c) Madhya Pradesh (d) Uttar Pradesh
- 31.** What was the correct slogan of the French Revolution?  
 (a) Liberty, Rights, Duties  
 (b) Equity, Equality, Fraternity  
 (c) Liberty, Equality, Fraternity  
 (d) Liberty, Equality, Rights
- 32.** Who among the following won a gold medal in high jump in Rio Paralympics 2016?  
 (a) Sharad Kumar  
 (b) Murlikant Ketkar  
 (c) Varun Singh Bhati  
 (d) Mariyappan Thangavelu
- 33.** Justice Dalveer Bhandari was in the news because he  
 (a) became the Chief Justice of Allahabad High Court.  
 (b) None of these  
 (c) became a member of the National Judicial Commission  
 (d) was re-elected to the International Court of Justice



- 34.** ..... is considered the oldest treatise in India.  
 (a) Nyaya (b) Ramayan  
 (c) Gita (d) Rigveda
- 35.** Sense-organs help an organism to  
 (a) Respire (b) Movement  
 (c) Grow fast (d) Respond to stimuli
- 36.** ..... is known as the Father of Green Revolution in India.  
 (a) Dr. Verghese Kurien (b) None of these  
 (c) M.S. Swaminathan (d) C. D. Deshmukh
- 37.** Justin Trudeau, who visited India in February 2018, is the Prime Minister of .....  
 (a) Canada (b) Spain  
 (c) Italy (d) France
- 38.** Which of the following plays was not written by William Shakespeare?  
 (a) Julius Caesar (b) Hamlet  
 (c) Arms and the Man (d) As You Like It
- 39.** National Institute of Immunology is situated in  
 (a) Chennai (b) Mumbai  
 (c) New Delhi (d) Bengaluru
- 40.** 2020 Summer Olympic Games will be held in  
 (a) Japan (b) Spain  
 (c) China (d) South Korea
- 41.** Match Column-I with Column-II.
- |      | Column-I<br>(Disease) | Column-II<br>(Cause) |
|------|-----------------------|----------------------|
| i.   | Ringworm              | a. Protozoa          |
| ii.  | Malaria               | b. Bacteria          |
| iii. | Cholera               | c. Fungi             |
| iv.  | Anemia                | d. Iron deficiency   |
- Codes**
- |     |   |    |     |    |
|-----|---|----|-----|----|
|     | i | ii | iii | iv |
| (a) | c | d  | b   | a  |
| (b) | c | a  | d   | b  |
| (c) | c | a  | b   | d  |
| (d) | c | b  | d   | a  |
- 42.** Who among the following is associated with the 'doctrine of lapse'?  
 (a) Lord Rippon (b) Lord Minto  
 (c) Lord Curzon (d) Lord Dalhousie
- 43.** Which of the following is not an input device?  
 (a) Camera (b) Printer  
 (c) Keyboard (d) Mouse
- 44.** Hindi feature film 'Padmavat' is based on a book written by .....  
 (a) Abul Fazal  
 (b) Raskhan  
 (c) Malik Muhammad Jaysi  
 (d) Amir Khusro
- 45.** Somnath Temple was invaded by  
 (a) Muhammad Bin Qasim  
 (b) Iltutmish  
 (c) Mohammad Ghori  
 (d) Mahmud of Ghazni
- 46.** Who is considered as the propounder of Sankhya Philosophy?  
 (a) Patanjali (b) Valmiki (c) Kapila (d) Gautam
- 47.** Who is the writer of the very famous book 'Poverty and Un-British Rule in India'?  
 (a) Dadabhai Naoroji  
 (b) None of these  
 (c) Mahatma Gandhi  
 (d) Gopal Krishna Gokhale
- 48.** Who among the following has been the editor of famous Hindi Magazine 'Saraswati'?  
 (a) Pt. Purnachandra  
 (b) Mahavir Prasad Dwivedi  
 (c) Raja Shiv Prasad 'Sitar-e-Hind'  
 (d) Bal Krishna Bhatt
- 49.** Who has written the book 'Mother'?  
 (a) Ben Johnson (b) Oscar Wilde  
 (c) T.S. Eliot (d) Maxim Gorky
- 50.** Goods and Services Tax (GST) was implemented in India on  
 (a) 1st July, 2017  
 (b) 1st September, 2017  
 (c) 1st January, 2017  
 (d) 1st April, 2017



## Part II : English Language

- 51.** Select the correct transformation of the voice.  
I know him.  
(a) He is known to me  
(b) He has been known to me  
(c) He is known by me (d) He was known to me
- 52.** Find out the figure of speech in the following sentence.  
From the cradle to the grave  
(a) Litotes (b) Transferred Epithet  
(c) Metonymy (d) Synecdoche
- 53.** Substitute one word for 'fear of heights'.  
(a) Aerophobia (b) Algophobia  
(c) Agoraphobia (d) Acrophobia
- 54.** Fill in the blank with the word that creates the most logical sentence.  
..... our low annual fee, you will receive a 20% discount if you sign up this week.  
(a) In spite of (b) In addition to  
(c) Because of (d) Due to
- 55.** Choose the best alternative to replace the underlined word.  
Ram wants to discuss a problem with his supervisor.  
(a) talk over (b) talk through  
(c) talk up (d) look up
- 56.** Choose the appropriate word to complete the following sentence.  
The railway line runs ..... hill and plain.  
(a) over (b) in (c) at (d) on
- 57.** Choose the appropriate word to complete the following sentence.  
Ram is my ..... son.  
(a) old (b) oldest (c) eldest (d) older
- 58.** In which figure of speech as, so, like words are used?  
(a) Fable (b) Allegory (c) Metaphor (d) Simile
- 59.** What is one word for the following sentence?  
Give tit for tat.  
(a) Voluntary (b) Retaliate  
(c) Forgery (d) Cemetery
- 60.** Mark the word which is different in meaning in the group.  
(a) Behold (b) Think (c) See (d) Look
- 61.** Mark the correct meaning of the word. 'Pioneer'  
(a) One who travels from one place to another  
(b) One who leads others in any field  
(c) One who prints well  
(d) One who writes against the establishment
- 62.** Choose the correct option of indirect speech.  
**Direct Speech :** She said, "I do not wish to see any of you; go away."  
**Indirect Speech**  
(a) She said that she did not wish to see any of them and ordered them to go away  
(b) None of these  
(c) She said that I do not wish to see any of them and ordered them to go away  
(d) She said that I do not wish to see any of you and ordered them to go away
- 63.** Complete the following proverb.  
While there is life, there is .....  
(a) hope (b) None of these  
(c) happiness (d) wealth
- 64.** Choose the correct meaning of the proverb.  
To save one's face  
(a) to oppose (b) to hide oneself  
(c) to evade disgrace (d) to say plainly
- 65.** Fill in the blank with appropriate word.  
He left the book ..... the telephone.  
(a) at (b) beside (c) besides (d) around
- 66.** Choose the appropriate one word substitute.  
That which can be carried  
(a) Portable (b) Bearable  
(c) Handy (d) Light
- 67.** Replace the underlined word with suitable alternative.  
Kalidas is the greatest of all other dramatists.  
(a) between other  
(b) in other  
(c) among all the  
(d) in all the other
- 68.** Select the correct sentence in Indirect speech.  
The father said to her, "May you succeed."  
(a) The father told her that you might succeed  
(b) The father wished her to succeed  
(c) The father told her that you may succeed  
(d) The father asked her to succeed



- 69.** Which figure of speech is used in the following sentence?  
All the world's a stage.  
(a) Metaphor (b) Euphenism  
(c) Metonymy (d) Metalepsis
- 70.** Complete the following sentence by filling in a suitable Article.  
..... sugar is bad for your teeth.  
(a) The (b) None of these  
(c) A (d) An
- 71.** Fill in the blank.  
A group of zebras is called a  
(a) pride (b) pack (c) dazzle (d) streak
- 72.** Choose the correct option from the following.  
'Under wraps' means  
(a) in a small place (b) in a wrapper  
(c) in secret (d) with difficulty
- 73.** Pick out antonym of the word.  
'Corpulent'  
(a) thin (b) curved (c) burly (d) sluggish
- 74.** Mark the correct sentence.  
(a) It is in the middle of you and I  
(b) It is among you and me  
(c) It is between you and me  
(d) It is between you and I
- 75.** Mark the correct sentence.  
(a) One must not praise one self  
(b) All the sentences are incorrect  
(c) One should not praise his self  
(d) One should not once praise himself
- 76.** Mark the correct meaning of the idiom.  
Break into  
(a) enter by force (b) to be in pieces  
(c) jail (d) stop suddenly
- 77.** Mark the correct meaning of the idiom.  
'Make up one's mind'  
(a) persuade someone (b) remind  
(c) retire (d) resolve
- 78.** Mark the correct use of narration.  
(a) I notified that I had changed my address  
(b) I notified to the bank that I had changed my address  
(c) I notified with the bank that I had changed my address  
(d) I notified the bank that I had changed my address
- 79.** Mark the correct antonym of the word 'Careful'  
(a) discareful (b) careless  
(c) caring (d) carefree
- 80.** What is the word 'lovely' in the following sentence?  
Sita is my lovely daughter.  
(a) Adjective (b) None of these  
(c) Noun (d) Adverb
- 81.** Choose the suitable word to complete the sentence.  
The mother ordered her son to remain ..... while she ran to get milk.  
(a) stationed (b) None of these  
(c) stationary (d) stationery
- 82.** What is affirmative of the following sentence?  
None but the brave deserve the fair.  
(a) The brave oneself deserve the fair  
(b) None of these  
(c) The brave alone deserve the fair  
(d) The brave deserves the fair
- 83.** Complete the hyphenated compound word.  
..... witted  
(a) Quick (b) Far (c) Over (d) Under
- 84.** Choose the synonym of the word 'astute' from the following.  
(a) ugly (b) dull  
(c) intelligent (d) beautiful
- 85.** Fill in the blank with appropriate conjunction.  
The harvest truly is plenteous, ..... the labourers are few.  
(a) so (b) and  
(c) but (d) yet
- 86.** It is 10 O'clock ..... my watch.  
(a) by (b) on (c) in (d) at
- 87.** ..... June 2016 to March 2017 I was in France.  
(a) From (b) None of these  
(c) Around (d) Between
- 88.** Choose the appropriate one word substitute.  
Repetition of consonant sound  
(a) Assonance (b) Pun  
(c) Rhyme (d) Alliteration

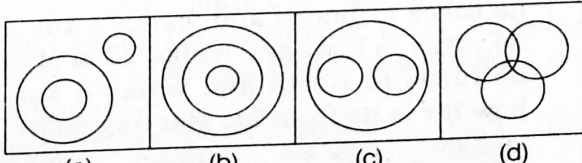


- 89.** Fill in the blank with appropriate word.  
Rahul had a an ..... pain in his stomach.  
(a) great (b) acute  
(c) high (d) deep
- 90.** Find out the mis-spelt word.  
(a) Excess (b) Laudable  
(c) Miscreant (d) Seperate
- 91.** Identify the underlined word in the following sentence.  
He enjoyed sleeping in the open air.  
(a) Infinitive (b) None of these  
(c) Gerund (d) Participle
- 92.** Which degree is used in the following sentence?  
This boy is the cleverest of all.  
(a) Comparative Degree  
(b) None of them  
(c) Positive Degree  
(d) Superlative Degree
- 93.** Identify the underlined word in the following sentence.  
Her greatest pleasure is to dance.  
(a) Participle (b) None of these  
(c) Gerund (d) Infinitive
- 94.** Select correct word to complete the following sentence.  
Take heed ..... you fall.  
(a) lest (b) that  
(c) without (d) except
- 95.** Which word is used in the following sentence correctly?  
He studied Latin ..... the age of ten.  
(a) for (b) of (c) since (d) from
- 96.** Change the voice of the following sentence.  
Do it.  
(a) Allow to be done (b) None of these  
(c) Let it be done (d) It is done
- 97.** Which phrase is a correct meaning of the following sentence?  
I am a trifle man in this gathering of scholars.  
(a) double fry (b) triple fry  
(c) small fry (d) big fry
- 98.** Correct the following sentence by using appropriate article.  
He had an one rupee note.  
(a) No correction (b) No article  
(c) the (d) a
- 99.** Which figure of speech is used in the following sentence?  
Swords clanged and guns boomed.  
(a) Hyperbole (b) Metaphor  
(c) Oxymoron (d) Onomatopoeia
- 100.** Select correct word in the place of underlined word in the sentence.  
All the candidates will give a test on Friday.  
(a) accept (b) None of these  
(c) appear (d) take

## Paper II

### Part I : Reasoning Ability

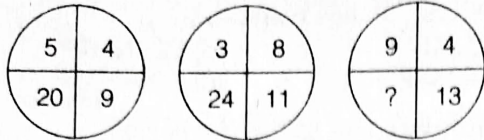
- 1.** Find the odd one from the following.  
(a) LEAN (b) LIEN  
(c) LINE (d) NILE
- 2.** What will we get after subtracting  $(m + n)$  from  $(m - n)$ ?  
(a)  $-2n$  (b)  $+2n$   
(c)  $-2m$  (d)  $+2m$
- 3.** Find the odd one from the following  
Talking, Sleeping, Walking, Eating  
(a) Walking (b) Talking  
(c) Eating (d) Sleeping
- 4.** What will be the mirror image of FIXING?  
(a) GNIXIF (b) ǪNIXIF (c) ƆIXINǪ (d) ǪNIXIF
- 5.** Find the missing number.
- |     |     |
|-----|-----|
| 594 | 198 |
| ?   | 66  |
- (a) 11 (b) 12 (c) 33 (d) 22
- 6.** Choose the correct alternative.  
Newspaper : Press :: Cloth : ?  
(a) Tailor (b) Textile  
(c) Fibre (d) Mill

7. Choose the odd one  
Curd, Butter, Oil, Cheese, Cream  
(a) Cream (b) Cheese (c) Oil (d) Curd
8. What will be the compound interest of ₹ 3000 for two years at the rate of 10% interest to be calculated annually?  
(a) ₹ 3630 (b) ₹ 600 (c) ₹ 630 (d) ₹ 3600
9. Vaibhav eats 10 purees in two days while Saurabh eats 20 purees in a day. How many days both Vaibhav and Saurabh will take to eat 250 purees?  
(a) 25 (b) 20 (c) 10 (d) 12
10. Find out the wrong term in the following series.  
3, 10, 27, 4, 16, 64, 5, 25, 125  
(a) 27 (b) 10 (c) 4 (d) 3
11. Complete the following series  
2, 7, 16, ?, 46, 67, 92  
(a) 32 (b) 29 (c) 31 (d) 25
12. Arrange the below given words in a meaningful sequence and then choose the most appropriate sequence from the given options.  
1. Book      2. Key      3. Door      4. Lock  
5. Room  
(a) 5, 1, 2, 4, 3 (b) 1, 5, 3, 4, 2  
(c) 2, 4, 3, 5, 1 (d) 4, 2, 3, 5, 1
13. The number of students in a college increases every year. Find out the number of students in 2018 from the following information?
- | Year            | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|-----------------|------|------|------|------|------|------|
| No. of Students | 520  | 523  | 529  | 538  | 550  | ?    |
- (a) 15 (b) 565 (c) 559 (d) 575
14. Pointing towards a woman, Amit said, 'Her father's only son is my father.' How is Amit related to that woman?  
(a) Son (b) Nephew  
(c) Husband (d) Brother
15. Find the remainder when  $73 + 75 + 78 + 57 + 197$  is divided by 34.  
(a) 14 (b) 15 (c) 4 (d) 28
16. If TEACHER is written as VGCEJGT, how is CHILDREN written?  
(a) EJKNEGTP (b) EGKNFITP  
(c) EJKNFGTO (d) EJKNFTGP
17. Complete the following series.  
9, 25, 49, ?, 121  
(a) 97 (b) 81  
(c) 85 (d) 82
18. In a code language 297 means 'tie clip button'. Which number means button in that language if  
1. 926 means 'clip your tie'  
2. 175 means 'hole and button'?  
(a) 7 (b) 6 (c) 2 (d) 9
19. The average age of A, B and C is 18 yr. If B is two years older than A and five years younger than C, what is the age of C?  
(a) 22 yr (b) 23 yr (c) 24 yr (d) 25 yr
20. If first February, 1900 was Monday, what day it was on first March, 1901?  
(a) Sunday (b) Monday  
(c) Tuesday (d) Friday
21. If City is called Village, Village is called Forest, Forest is called Sofa, Sofa is called Fridge, Fridge is called Room, then where do the Deer live?  
(a) Village (b) Sofa  
(c) Fridge (d) Room
22. Select the option for (?)  
 $144 : 13 :: 36 : ?$   
(a) 1 (b) 2 (c) 6 (d) 7
23. Identify the diagram that best represents the relationship between classes given below.  
Teachers, Researchers, Scientists
- 

(a) (b) (c) (d)
24. If 22nd day of a month was Sunday, what day was it on 13th day?  
(a) Thursday (b) Friday  
(c) Saturday (d) Sunday



25. Insert the missing number

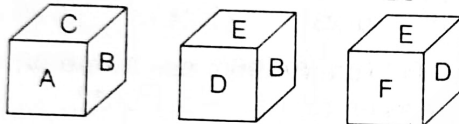


- (a) 36 (b) 32  
(c) 26 (d) 42

26. X, Y and Z are friends. X is eldest followed by Y and Z. X is two years elder to Y and 5 yr elder to Z. The sum of present age of X and Z is three times the age of Y, 5 yr ago. What is the current age of Y?

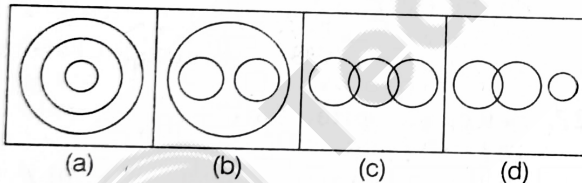
- (a) 14 (b) 12  
(c) 16 (d) 18

27. Three positions of a dice are shown below. Which alphabet will come on the opposite face on which alphabet F appears?



- (a) B (b) A  
(c) E (d) C

28. Which of the following venn diagrams correctly depicts the relationship among Cement, House and Bridge.



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

29. Complete the series

30, 100, 180, 270, ?

- (a) 370 (b) 410 (c) 420 (d) 430

30. A man walks 2 km towards East and then he turns to South and walks 4 km. Again he turns to East and walks 1 km after this he turns to North and walks 8 km. Now how far is he from his starting point?

- (a) 3 km (b) 4 km (c) 5 km (d) 7 km

31. Find the square of 0.01.

- (a) 0.1 (b) 0.01 (c) 0.001 (d) 0.0001

32. Fill in the blank (?) space

HI : CD :: 89 : ?

- (a) 34 (b) 43 (c) 45 (d) 98

33. In a problem of simple multiplication, one child reversed the digits of both the numbers and carried out the multiplication. It was found that the product was exactly the same as the one expected from the original numbers. Which one are the original numbers?

- (a) 14, 22 (b) 13, 62 (c) 19, 33 (d) 42, 28

34. The position of how many digits will remain the same if the digits in the number '84617925' are rearranged in descending order.

- (a) one (b) two (c) three  
(d) All will changed (None)

35. A mountaineer spent  $\frac{1}{4}$  of his life as a

carpenter,  $\frac{1}{5}$  as an actor,  $\frac{1}{3}$  as a manager and 13 yr in an old age home. What is his present age?

- (a) 80 yr (b) 70 yr (c) 85 yr (d) 60 yr

36. Ankit is richer than Balwant. Chetan is richer than Ankit. Dinesh is richer than Chetan. Sameer is richest of all. Who among them have least wealth?

- (a) Balwant (b) Ankit (c) Dinesh (d) Chetan

37. If we reverse the second half of the English alphabet series starting from A to Z, then which letter will be 14th to the right of 6th letter from the left.

- (a) F (b) R (c) T (d) U

38. Select the missing term from the options that will complete the missing series. CAT, FDW, IGZ, ?

- (a) KJA (b) KTC (c) LHD (d) LJC

39. Below are given four words. The 1st and 2nd words have the same relation as 3rd and 4th. Fill in the question mark (?) from the given options.

? : Time :: Thermometer : ?

- (a) Watch, Heat (b) Sun, Temperature  
(c) Watch, Temperature (d) Day, Energy

40. Substitute the question mark (?) from the given options

Bird : Fish :: Aeroplane : ?

- (a) Ship (b) Car (c) Water (d) Air



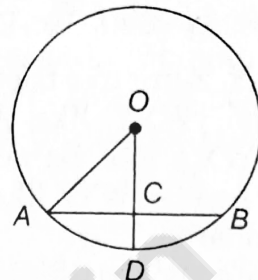
41. Three of the following four are alike in certain ways and so form a group. Which is odd one that does not belong to the group?  
(a) DEHG (b) RSVU (c) LMQP (d) JKNM
42. V, W, X, Y, Z are five friends. VXZ are fond of Mango. WXY like Apple. VWZ like Guava. WXZ like Banana. V and Y are fond of Orange. WYZ like Chickoo.  
Fruits liked by X are  
(a) Mango, Apple and Banana  
(b) Guava, Orange and Banana  
(c) Banana, Chickoo and Apple  
(d) Mango, Chickoo and Guava
43. Out of the four words which one cannot be formed by using the letter of the given word? CORRESPONDING  
(a) DROPERS (b) SUPERIOR  
(c) GRINDER (d) DISCERN
44. There are five houses P, B, T, D, C in a row. P is on the right side of B and left side of T. C is on the right side of P. B is on the right of D. Which house is in the middle?  
(a) B (b) P (c) T (d) D
45. A person is to reach the top of pole which is 60 m high. Every minute he climbs 5 m but then slips down 4 m. In how many minutes he will reach the top?  
(a) 60 (b) 59 (c) 56 (d) 55
46. Which method of teaching is more desirable for primary school children?  
(a) Verbal  
(b) Pictorial  
(c) Verbal and pictorial combined  
(d) Real life experience
47. Which behaviour in a student should be considered as more serious?  
(a) Talks in the class during teaching.  
(b) Often pushes students.  
(c) Asks too many questions in class.  
(d) Remains withdrawn.
48. Today a father's age is four times the age of his son. Ten years back father's age was 14 times his son's age. If the sum of the present ages of both is 65 yr, what is their present ages?  
(a) 44 and 11 (b) 40 and 10  
(c) 48 and 12 (d) 52 and 13
49. Which of the following equations will result in 22?  
(a)  $16 \div 12 + 8 - 13 \times 15$   
(b)  $16 - 12 \times 8 + 13 + 15$   
(c)  $16 \times 12 \div 8 + 13 - 15$   
(d)  $16 + 12 - 8 \times 13 \div 15$
50. In the following series, what will be in the place of?  
AZB, CYD, EXF, ?, IVJ, KUL  
(a) GUF (b) GWG (c) GWH (d) HWH

## Part II : Science Group

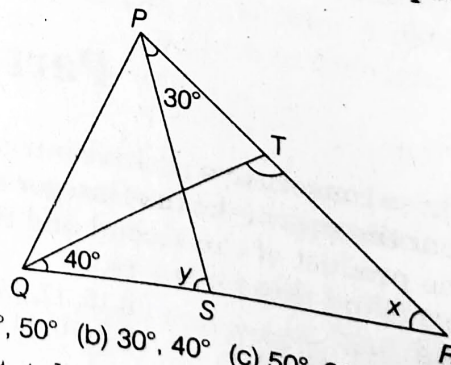
51. Three consecutive positive integers is such that the sum of the first integer square and the product of the second and the third is 191. Find these integers.  
(a) 2, 5, 9 (b) 15, 17, 19  
(c) 10, 13, 18 (d) 9, 10, 11
52. The simplest form of  $\frac{x^2}{x^3 + y^3} + \frac{xy}{(x + y)^2}$  is  
(a)  $\frac{x(x + y)}{y(x^2 - xy + y^2)}$  (b)  $\frac{x(x + y)}{y(x^2 + xy + y^2)}$   
(c)  $\frac{x(x - y)}{y(x^2 + xy + y^2)}$  (d)  $\frac{x(x - y)}{y(x^2 - xy + y^2)}$
53. HCF of  $(x^2 + 4x + 4)$  and  $(3x^2 - 12)$  is  
(a)  $x + 1$  (b)  $x + 2$   
(c)  $x + 3$  (d)  $x + 4$
54. If  $\alpha + \beta = 24$  and  $\alpha - \beta = 8$ , then find the quadratic equation, these roots are  $\alpha$  and  $\beta$   
(a)  $x^2 - 24x + 128 = 0$  (b)  $x^2 - 2x + 11 = 0$   
(c)  $x^2 - 12x + 20 = 0$  (d)  $x^2 - x + 1 = 0$
55. In a cricket match, a batswoman hits a boundary 6 times out of 30 balls she plays. Find the probability that she did not hit a boundary.  
(a)  $\frac{1}{5}$  (b)  $\frac{2}{5}$  (c)  $\frac{3}{5}$  (d)  $\frac{4}{5}$
56. The simplest form of  $\frac{x^2 - 5x + 6}{x^2 - 9x + 20} + \frac{x^2 - 3x + 2}{x^2 - 5x + 4}$  is  
(a)  $\frac{x - 3}{x - 5}$  (b)  $\frac{x + 3}{x - 5}$  (c)  $\frac{x - 3}{x + 5}$  (d)  $\frac{x + 3}{x + 5}$



57. The value of  $\sin^2 \theta + \frac{1}{1 + \tan^2 \theta}$  is  
 (a)  $\cos^2 \theta$  (b)  $\sin^2 \theta$  (c) 1 (d)  $\sec^2 \theta$
58. The sale price of a clock with 8% sales tax is ₹ 810. The clock's face value will be  
 (a) ₹ 750 (b) ₹ 700 (c) ₹ 800 (d) ₹ 650
59. The ratio of two circles diameters is 4 : 9. The ratio of circumferences of these circles.  
 (a) 4 : 9 (b) 3 : 7 (c) 2 : 1 (d) 4 : 7
60. A person is able to stream a boat with 18 km in 4 h and the opposite of the stream takes 12 h to return. The speed of the stream is  
 (a) 1 km/h (b) 1.5 km/h  
 (c) 2 km/h (d) 1.75 km/h
61. The length, breadth and height of a room are 5 m, 4m and 3 m, respectively. Find the cost of white washing the walls of the room and the ceiling at the rate of ₹ 7.50 per  $m^2$   
 (a) ₹ 555 (b) ₹ 259  
 (c) ₹ 348 (d) ₹ 459
62. A 200 m long train is going to speed 70 km/h. A 150 m long train is coming in front of him. So he crosses the first train in 10 seconds. Then, tell what would be the speed of another train?  
 (a) 25 km/h (b) 36 km/h  
 (c) 45 km/h (d) 56 km/h
63. If  $p$ th term is  $q$  and  $q$ th term is  $p$  of a AP, then  $n$ th term will be  
 (a)  $(p + q - n)$  (b)  $(p - q + n)$   
 (c)  $(p - q - n)$  (d)  $(p + q + n)$
64. What is the sum of the square of natural numbers from 1 to 20.  
 (a) 1120 (b) 1978 (c) 2870 (d) 579
65. A and B can complete any work in 10 days and 15 days, respectively. With the help of C he completed this work in 4 days. Then, tell how alone C can complete it in days.  
 (a) 12 days (b) 14 days (c) 16 days (d) 18 days
66. The value of  $\log_6 7 \times \log_7 8 \times \log_8 9 \times \log_9 6$  is  
 (a) 0 (b) 1 (c) -1 (d) 2
67. If  $x = 2 - \sqrt{3}$ , then the value of  $x^2 + \frac{1}{x^2}$  is  
 (a) 14 (b) -14 (c) 2 (d) -2
68. In figure if  $OA = 5$  cm,  $AB = 8$  cm and chord  $OD$  is perpendicular on  $AB$ , then  $CD$  equals to



- (a) 2 cm (b) 3 cm (c) 4 cm (d) 5 cm
69. If  $\theta$  is acute angle such that  $\sin \theta = \cos \theta$ , then the value of  $2 \tan^2 \theta + \sin^2 \theta - 1$  is  
 (a)  $\frac{1}{2}$  (b)  $\frac{1}{\sqrt{2}}$  (c)  $\frac{3}{2}$  (d)  $\frac{\sqrt{3}}{2}$
70. The value of  $\frac{\sin A}{1 + \cos A} + \frac{1 + \cos A}{\sin A}$  is  
 (a)  $\sec A$  (b)  $2 \sec 2A$   
 (c)  $\operatorname{cosec} A$  (d)  $2 \operatorname{cosec} A$
71. At the rate of simple interest in 4 yr, ₹ 1200 becomes ₹ 1488 if the simple interest rate increases at 3%, then how much will amount be  
 (a) ₹ 1632 (b) ₹ 1244 (c) ₹ 1192 (d) ₹ 1891
72. In figure if  $QT \perp PR$ ,  $\angle TQR = 40^\circ$  and  $\angle SPR = 30^\circ$ , then value of  $x, y$  respectively, is



- (a)  $20^\circ, 50^\circ$  (b)  $30^\circ, 40^\circ$  (c)  $50^\circ, 80^\circ$  (d)  $40^\circ, 70^\circ$
73. The total expending of paint of a solid circular ball is ₹ 308, at the rate of ₹ 2. Then, the diameter of ball is  
 (a) 3 cm (b) 4 cm (c) 7 cm (d) 9 cm
74. Two circles of radii 5 cm and 3 cm intersect at two points and the distance between their centres is 4 cm. Find the length of the common chord.  
 (a) 2 cm (b) 4 cm (c) 6 cm (d) 8 cm



75. If  $x - \frac{1}{x} = 2$ , then the value of  $x^2 + \frac{1}{x^2}$  is  
(a) 2 (b) 4 (c) 6 (d) 8
76. In an electrical circuit three incandescent bulbs A, B and C of rating 40 W, 60 W and 100 W respectively are connected in parallel to an electric source. Which of the following is likely to happen regarding their brightness?  
(a) Brightness of all the bulbs will be the same  
(b) Brightness of bulb A will be the maximum  
(c) Brightness of bulb B will be more than that of A  
(d) Brightness of bulb C will be less than that of B
77. A child is standing in front of a magic mirror. She finds the image of her head bigger, the middle portion of her body of the same size and that of the legs smaller. The following is the order of combinations for the magic mirror from the top.  
(a) Plane, convex and concave  
(b) Convex, concave and plane  
(c) Concave, plane and convex  
(d) Convex, plane and concave
78. To convert an AC generator into DC generator  
(a) split ring type commutator must be used  
(b) slip rings and brushes must be used  
(c) a stronger magnetic field has to be used  
(d) a rectangular wire loop has to be used
79. In a hydro power plant  
(a) Potential energy possessed by stored water is converted into electricity  
(b) kinetic energy possessed by water is converted into electric energy  
(c) electricity is extracted from water  
(d) water is converted into steam to produce electricity
80. Unit of electric power may also be expressed as  
(a) Volt Ampere (b) kilowatt hour  
(c) Watt second (d) Joule second
81. Where should an object be placed in front of a convex lens to get a real image of the size of object?  
(a) At the principal focus of lens  
(b) At twice the focal length  
(c) At infinity  
(d) Between optical centre of lens and its principal focus
82. Commercial electric motors do not use  
(a) an electromagnet to rotate the armature  
(b) effectively large number of turns of conducting wire in the current carrying coil  
(c) a permanent magnet to rotate the armature  
(d) a soft iron core on which the coil is wound
83. The danger signals installed at the top of the tall buildings are in red colour. These can be easily seen from a distance because among all other colours, the red light  
(a) is scattered the most by smoke or fog  
(b) is scattered the least by smoke or fog  
(c) is absorbed the most by smoke or fog  
(d) moves fastest in air
84. Which of the following phenomena contributes significantly to the reddish appearance of the sun at sunrise and sunset?  
(a) Dispersion of light  
(b) Scattering of light  
(c) Total internal reflection of light  
(d) Reflection of light from the earth
85. Above curie temperature  
(a) a ferromagnetic substance becomes paramagnetic  
(b) a paramagnetic substance becomes diamagnetic  
(c) a diamagnetic substance becomes paramagnetic  
(d) a paramagnetic substance becomes ferromagnetic
86. Oils on treating with hydrogen in the presence of palladium or nickel catalyst from fats. This is an example of  
(a) addition reaction  
(b) substitution reaction  
(c) displacement reaction  
(d) oxidation reaction
87. Vinegar is a solution of  
(a) 50% - 60% acetic acid in alcohol  
(b) 5% - 8% acetic acid in alcohol  
(c) 5% - 8% acetic acid in water  
(d) 50% - 60% acetic acid in water
88. Generally, non metals are not conductors of electricity. Which of the following is a good conductor of electricity?  
(a) Diamond (b) Graphite  
(c) Sulphur (d) Fullerene



- 89.** Galvanisation is a method of protecting iron from rusting by coating it with a thin layer of  
(a) gallium  
(b) aluminium  
(c) zinc  
(d) silver
- 90.** Which of the following statements is true for acids?  
(a) Bitter and change red litmus to blue  
(b) Sour and change red litmus to blue  
(c) Sour and change blue litmus to red  
(d) Bitter and change blue litmus to red
- 91.** Which one of the following properties is not generally exhibited by ionic compounds?  
(a) Solubility in water  
(b) Electrical conductivity in solid state  
(c) High melting and boiling points  
(d) Electrical conductivity in molten state
- 92.** Electrical wires have a coating of an insulating material, which is generally  
(a) Sulphur  
(b) Graphite  
(c) PVC  
(d) All can be used
- 93.** Stainless steel is very useful material in our life. In stainless steel, iron is mixed with  
(a) Ni and Cr  
(b) Cu and Cr  
(c) Ni and Cu  
(d) Cu and Au
- 94.** Which of the following is used for dissolution of gold?  
(a) Hydrochloric acid  
(b) Sulphuric acid  
(c) Nitric acid  
(d) Aqua - regia
- 95.** Lungs are enclosed in  
(a) perichondrium  
(b) pericardium  
(c) pleural membrane  
(d) peritoneum.
- 96.** Arteries are best defined as the vessels which  
(a) carry blood away from the heart to different organs  
(b) break up into capillaries which reunite to form a vein  
(c) carry blood from one visceral organ to another visceral organs  
(d) supply oxygenated blood to the different organs
- 97.** Hydrochloric acid (HCl) is secreted by which of the following cells of stomach?  
(a) Chief cells  
(b) Parietal cells (oxyntic cells)  
(c) Peptic cells  
(d) Goblet cells
- 98.** Which of the following is true for photosynthesis?  
(a) Reduction of  $\text{CO}_2$  and water  
(b) Oxidation of  $\text{CO}_2$  and water  
(c) Reduction of  $\text{CO}_2$  and oxidation of water  
(d) Oxidation of  $\text{CO}_2$  and reduction of water
- 99.** The manufactured food in a green plant moves from the leaves to other parts through  
(a) xylem  
(b) phloem  
(c) cortex  
(d) pith
- 100.** Which of the following is a pair of viral diseases?  
(a) Ringworm, AIDS  
(b) Common cold, AIDS  
(c) Dysentery, common cold  
(d) Typhoid, tuberculosis.

Answers

Paper I

1	(b)	2	(c)	3	(a)	4	(b)	5	(b)	6	(d)	7	(a)	8	(a)	9	(a)	10	(d)
11	(a)	12	(a)	13	(b)	14	(c)	15	(d)	16	(b)	17	(c)	18	(d)	19	(d)	20	(a)
21	(a)	22	(c)	23	(d)	24	(a)	25	(b)	26	(d)	27	(b)	28	(b)	29	(b)	30	(a)
31	(c)	32	(d)	33	(d)	34	(d)	35	(d)	36	(c)	37	(a)	38	(c)	39	(c)	40	(a)
41	(c)	42	(d)	43	(b)	44	(c)	45	(d)	46	(c)	47	(a)	48	(b)	49	(d)	50	(a)
51	(a)	52	(c)	53	(d)	54	(b)	55	(a)	56	(a)	57	(c)	58	(d)	59	(b)	60	(b)
61	(b)	62	(a)	63	(a)	64	(c)	65	(b)	66	(a)	67	(c)	68	(b)	69	(a)	70	(b)
71	(c)	72	(c)	73	(a)	74	(c)	75	(a)	76	(a)	77	(d)	78	(d)	79	(b)	80	(a)
81	(b)	82	(d)	83	(a)	84	(c)	85	(c)	86	(a)	87	(a)	88	(d)	89	(b)	90	(d)
91	(d)	92	(d)	93	(d)	94	(a)	95	(d)	96	(c)	97	(c)	98	(d)	99	(d)	100	(d)

Paper II

1	(a)	2	(a)	3	(c)	4	(d)	5	(d)	6	(d)	7	(c)	8	(c)	9	(c)	10	(b)
11	(b)	12	(c)	13	(b)	14	(b)	15	(c)	16	(d)	17	(b)	18	(a)	19	(a)	20	(c)
21	(b)	22	(d)	23	(d)	24	(b)	25	(a)	26	(a)	27	(a)	28	(c)	29	(a)	30	(c)
31	(d)	32	(a)	33	(b)	34	(a)	35	(d)	36	(a)	37	(c)	38	(d)	39	(c)	40	(a)
41	(c)	42	(a)	43	(b)	44	(b)	45	(c)	46	(c)	47	(d)	48	(d)	49	(c)	50	(c)
51	(d)	52	(a)	53	(b)	54	(a)	55	(d)	56	(a)	57	(c)	58	(a)	59	(a)	60	(b)
61	(a)	62	(d)	63	(a)	64	(c)	65	(a)	66	(b)	67	(a)	68	(a)	69	(c)	70	(d)
71	(a)	72	(c)	73	(c)	74	(c)	75	(c)	76	(c)	77	(c)	78	(a)	79	(b)	80	(a)
81	(b)	82	(c)	83	(b)	84	(b)	85	(a)	86	(a)	87	(c)	88	(b)	89	(c)	90	(c)
91	(b)	92	(c)	93	(a)	94	(d)	95	(c)	96	(a)	97	(b)	98	(c)	99	(b)	100	(b)