प्रश्न पत्र क्रमांक . .

# परीक्षा कोड : SENT - 10 वर्ष 2016-2017

3953.

उत्तर पत्रक पर छपा क्रमाक	पराक्षा कन्द्र का साल
Printed No. on Answer Sheet	Seal of Examination Centre
redonal z	न अनुक्रमांक
	_
ROLLNo OF	CANDIDATE

निरोक्षक के हस्ताक्षर एवं दिनांक

नोट : उपयुंक्त को परीक्षार्थी भरेंगे तथा निरीक्षक जांच कर हस्ताक्षर करेंगे।

भाग - I - मानसिक योग्यता

समय - 45 मिनट (11.00 से 11.45 बजे तक)

पर्णांक - 50

भाग - II - भाषा बोध परीक्षा

समय - 45 मिनट (12.00 से 12.45 बजे तक)

पूर्णांक - 50

भाग - III - शैक्षिक योग्यता परीक्षा

समय - 1.30 घंटा दोपहर 1.00 से 2.30 बजे तक

पूर्णांक - 100

#### परीक्षार्थियों को निर्देश

नीचे लिखे हुए निर्देशों को सावधानीपूर्वक पढ़ें, इसके बाद प्रश्नों के उत्तर चिन्हित करना प्रारम्भ करें :-

- प्रथम, द्वितीय एवं तृतीय भाग के लिए अलग-अलग उत्तर पत्रक दिए हैं, याद रखें आपको अपने उत्तर संबंधित भाग के उत्तर-पत्रक पर ही चिन्हित करने हैं।
- प्रश्नपत्र एवं प्रत्येक उत्तर पत्रक पर अपना अनुक्रमांक प्रवेश-पत्र में दिए गए अनुक्रमांक के अनुसार ही लिखें।
- सपस्त अंक अंग्रेजी में ही लिखें। एक चौखाने में एक ही अंक लिखें।
- यह परीक्षा तीन भागों में ली जा रही है। प्रथम भाग में 1 से 50 तक मानसिक योग्यता के प्रश्न हैं। द्वितीय भाग में

PART - I - MENTAL ABILITY

Time - 45 Minutes (11.00 to 11.45 P.M.)

Max, Marks - 50

PART - H - LANGUAGE TEST

Time - 45 Minutes (12.00 to 12.45 P.M.)

Max. Marks - 50

PART - III - SCHOLASTIC ABILITY TEST

Time - 1 hour 30 minutes 1.00 to 2.30 P.M.

Max. Marks - 100

#### INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you answer the questions on Answer Sheet:

- The answer sheets for Part-I, Part-II & Part-III are different. Remember you have to mark you answer on related answer sheet.
- Write Roll No. as given in admission card on this Question paper as well as on the Answer sheet.
- Write all the Nos. in English numbers only. Write only one digit in one block.
- This question paper contains three parts. I-Part contains 1-50 questions of mental ability. II-part contains 1-50 questions in Hindi language and

P.T.O.

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1 से 50 प्रश्न हिन्दी भाषा के हैं एवं 1 से 50 प्रश्न अंग्रेजी भाषा के हैं। विद्यार्थियों को इनमें से केवल एक भाषा का चयन करना है अर्थात् या तो हिन्दी या अंग्रेजी। चुनी हुई भाषा को सावधानी से उत्तर पत्रक पर दिये गए निर्धारित स्थान पर अंकित करना है। तीसरे भाग में शैक्षिक योग्यता परीक्षा के 1 से 100 प्रश्न हैं। सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न के लिए 1 अंक निर्धारित हैं।

- प्रत्येक सही उत्तर का एक अंक प्रदान किया जाएगा।
- इस परीक्षा के प्रत्येक भाग के लिए निश्चित समय का निर्धारण किया गया है। आप किसी एक प्रश्न के लिये ज्यादा समय न गंवाते हए निर्धारित समय का सद्द्ययोग करें।
- 7. भाग I (मानसिक योग्यता) के प्रश्न-पत्र को 11.45 बजे तक समाप्त कर लें व उत्तर-पत्रक पर्यवेक्षक को तुरंत वापस करेंगे। भाग II (भाषा बोध परीक्षा) के प्रश्न-पत्र को 12.45 बजे तक समाप्त कर उसके उत्तर पत्रक पर्यवेक्षक को तुरंत वापस करेंगे। भाग-III (शैक्षिक योग्यता परीक्षा) के प्रश्नपत्र को 2.30 बजे तक समाप्त करके उत्तर-पत्रक पर्यवेक्षक को वापस करेंगे।
- इस प्रश्न-पत्र का अंतिम पेज रफ कार्य करने के लिये दिया गया है।
- उत्तर देने का तरीका :
   उत्तर देने के लिए ओ.एम.आर. उत्तर पत्रक में संबंधित प्रश्न के बाजू में दिये गये चार गोलों में से केवल एक गोले को परा काला कीजिए।
- उत्तर ॲकित करने के लिए केवल काला/नीला बॉल -पाइंट पेन का प्रयोग करें।
- किसी प्रकार के कैलकुलेटर, लॉग टेबिल या अन्य इलेक्ट्रॉनिक उपकरणों, मोबाइल फोन आदि का प्रयोग वर्जित है।
- 12. मूल्यांकन पद्धित -प्रत्येक प्रश्न के चार संभावित उत्तर हैं, उनमें से एक उत्तर सही है। प्रश्न का सही उत्तर अंकित करने से एक अंक प्राप्त होगा। यदि एक से ज्यादा गोले काले किये जाते हैं तो यह माना जायेगा कि परीक्षार्थी को प्रश्न का सही उत्तर नहीं मालूम है और उसे कोई अंक नहीं दिये जायेंगे।
- 13. उत्तर शीट वीक्षक को सौंपना वीक्षक को उत्तर शीट सौंपने के पहले सुनिश्चित कर लें कि उत्तर शीट के दोनों पृष्ठों पर सही पूर्तियां जैसे– नाम, रोल नम्बर, हस्ताक्षर, प्रश्न पुस्तिका का नम्बर आदि निर्धारित स्थान पर ठोक-ठोक भरे गये हैं।
- 14. उत्तर शीट के उपयोग में सावधानी -उत्तरशीट का प्रयोग करते सभय पूरी तरह से सावधानी बरतें। इसे फटने, मोड़ने या सलवट पड़ने से खराव न होने दें।
- कृपया परीक्षा के बाद उत्तर पत्रक निरीक्षक को लौटा दीजिए।
- 16. अनुवादित विवरण में अंतर से उठे किसी भी विवाद की स्थिति में प्रश्न पत्र के अंग्रेजी विवरण को निर्णायक माना जाएंगा।

- 1-50 questions in English Language. The candidate has to attempt this test only in one language i.e. either in Hindi or in English. Mark the language opted by you very carefully on the answer sheet. Ill part contains 1-100 Questions. All the questions are compulsary. Each Question carry one mark.
- Every correct answer will be awarded one mark.
- Since the time allotted to the two parts of this Question Paper is limited, you should make the best use of it by not spending too much time on any one question.
- Solve the Part-I (Mental Ability) of the Question Paper by 11.45 am and related Answer sheet quickly sumit to the Invigilator. Part-II (Language) paper should be solved by 12.45 pm and Answer sheet submit to the invigilator Answer sheet Part-III (Scholastic ability) should be by 2.30 pm. and answer sheet should the submitted on previous manner.
- 8. The last page of this Question booklet is meant for **Rough work**.
- 9. Method of marking Answer To answer a question, please darken one bubble
  out of the given four, in the OMR Answer Sheet
  against that question.
- Use only Black / Blue Ball-point Pen to mark the answer.
- 11. Use of any calculator, log tables or any other electronic Gadgets, Mobile phones is prohibited.
- 12. Valuation procedure -

There are four alternative answer to a question, only one of them is correct answer. If more then one bubble are darkened for a question, it will be presumed that the candidate does not know the correct answer; hence, no mark shall be awarded.

13. Handing over of Answer Sheet to Invigilator -

> Please ensure that all entries in the answer sheet are filled up properly i.e. Name, Roll No., Signature, Question Booklet No. language, etc.

- 14. Care in Handling the answer sheet -While using answer sheet adequate care should be taken not to tear or spoil due to folds or wrinkles.
- 15. Please return Answer-Sheet to the invigilator after the test.
- 16. English version of the question paper will be considered as final in case of any dispute arising out of variation on translated version.

## **NTSE STAGE - 1 (2016) (STATE OF M.P.)**

SENT - 10

**PART - 1 MENTAL ABILITY** 

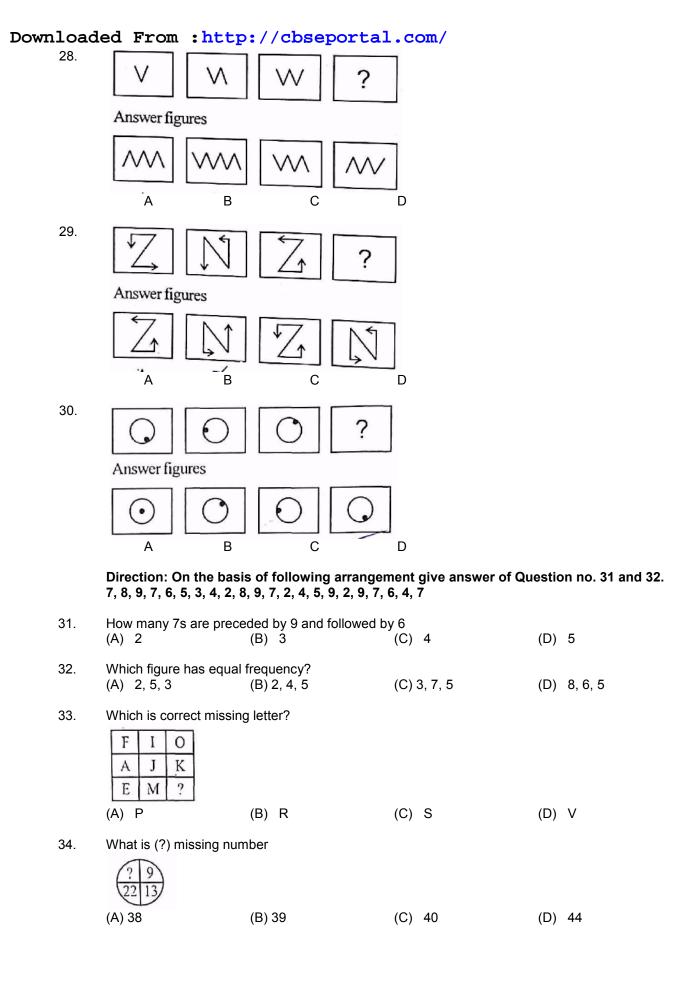
Direction: In question nos 1 to 5 there is a number series with one term missing shown by question mark (?) This term is one of the alternative given. Choose that number.

1.	36, ?, 24, 18, 12 (A) 22	(B) 28	(C) 38	(D) 30
2.	1, 1, 4, 8, 9, 27, 16, 64 (A) 81	, 25, ? (B) 100	(C) 125	(D) 121
3.	3, 5, 8, 13, 21, ?, 55 (A) 25	(B) 49	(C) 36	(D) 34
4.	80, 78, 75, 71, ?, 60 (A) 76	(B) 73	(C) 65	(D) 66
5.	2, 7, 17, 32, 52, ? (A) 77	(B) 64	(C) 72	(D) 81
	one of the four altern	atives given under the	question which satisf	ank space and it is only ies the same relation as n the question. Find the
6.	BEGK: ADFJ :: PSVY : (A) LOQT	? (B) ROUX	(C) OTUZ	(D) ORUX
7.	A B C D : N P R T : : F (A) K L M N	G H I : ? (B) O Q R T	(C) R T U W	(D) S U W Y
8.	BLOCKED : YOLXPVV (A) LAUNCH	V :: ? : OZFMXS (B) DEBATE	(C) LABOUR	(D) RESULT
9.	aCE : bdF :: fhJ : ? (A) ghk	(B) gik	(C) dfH	(D) fhL
10.	Menu: Food:: Catalogu (A) Rack	e: ? (B) Newspaper	(C) Library	(D) Books
	symbol: : have the sar	me relationship as the tw	vo terms to the right of s	tion. The terms left to the symbol:: out of four terms rite the correct one in the
11.	Teacher: Student:: Doc (A) Hospital	ctor: ? (B) Nurse	(C) Patient	(D) Pathology
12.	Feather: Soft:: Glass:? (A) Black	(B) White	(C) Light	(D) Hard
13.	Sky: Cloud:: Water:? (A) River	(B) Steam	(C) Ice	(D) Hot
14.	Bird: Flying:: Animal: ? (A) Running	(B) Flying	(C) Walking	(D) Crying
15.	Court: Justice:: School	:? (B) Education	(C) Ignorance	(D) Student

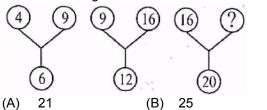
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16.	Satyajit Ray is related to (A) Literature	o films in the same way a (B) Drama	as Picasso is related to (C) Poetry	(D) Painting
17.	Find the relationship - Lucknow: Patna: Bhopa (A) Indore	ıl: Jaipur: ? (B) Mysore	(C) Pune	(D) Shimla
18.	Which of the following of (A) Tomato	loes not be long to other (B) Mango	s? (C) Guava	(D) Papaya
19.	If today is Sunday, after (A) Friday	90 days it will be (B) Saturday	(C) Sunday	(D) Monday
20.	Pointing to a lady, a malady related to the man' (A) Mother's sister (C) Sister of father-in-la	?	only brother is the brother (B) Grandmother (D) Maternal aunt	er of my wife". How is the
21.	Raza said "This girl is the (A) Father	ne wife of the grandson o (B) Grandfather	of my mother". Who is Ra (C) Husband	aza to the girl? (D) Father-in-law
22.	If the 2nd September 20 (A) 3	016 was Friday. How ma (B) 4	ny Friday were there in t (C) 5	he month? (D) None of these
23.	Sara is older than Mala Ram and Mala. Mala is (A) Sara	a. Gopal is older than M older than Ram. Who is (B) Mala	ala but younger than Sa the eldest? (C) Kapil	ra. Kapil is younger than  (D) Gopal
24.	You go north, turn right, (A) North	then right again and the (B) South	en go the left. In which di (C) East	rection are you now? (D) West
25.	In the given words find (A) Winter	the odd one out (B) Summer	(C) Spring	(D) Cloud
26.	Question no. 26 to 30 h correct figure from the a		figures. Bearing series i	n mind, pickup the fourth
	EEEEE Answer shapes	· • • • • • • • • • • • • • • • • • • •		
	A B	C C	D	
27.	<b>X</b>	₹ .?		
	Answer shapes			



35. Find the missing character.

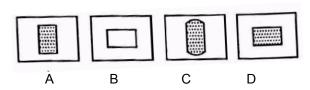


Direction: Question no. 36 to 38 each form a group with similar except one. Find the different one.

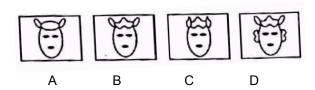
(C) 35

(D) 45

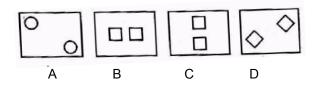
36.



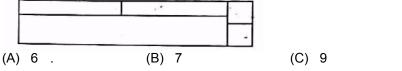
37.



38.



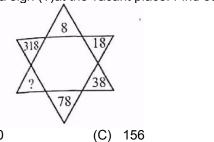
39. What is the number of rectangles in the following figure?



40. In the following question there is a sign (?) at the vacant place. Find out the missing number.



41. In the following question there is a sign (?)at the vacant place. Find out the missing number.



(A) 68

(B) 140

(D) 158

(D) 11

42.

43.

44.

45.

46.

47.

In the following question, find out the missing number at the vacant place. (C) 4 (D) 13 (A) 12 (B) 14 (C) 20 10 (B) 12 (D) 16 A family consisted of a man, his wife, his three sons, their wives and three children in each son's family. How many members are there in the family? (C) 17 (D) 19 (A) 12 (B) 14 A 26 feet long piece of wood is cut to make three pieces of equal length, the length of each piece (A) 8 feet 8 inches (B) 8 feet 2 inches (C) 8 feet 6 inches (D) 8 feet 4 inches Direction: In questions (46-48). Eight friends A, B, C, D, E, F, G and H arc sitting around a circular table facing the centre, not necessarily in the same order. C is third to the left of E, B is not an immediate neighbour of either E or C. H is not an immediate neighbour of E, D is. third to the right of B, H is second to the left of A. F is not immediate neighbour of H. Who is sitting third to the left of B? (A) E (B) A (C) G (D) B Which of the following pairs of people correctly represents the pair of people who are immediate neighbour of H? (A) DC (B) GA (C) AD (D) BG Who is sitting between B and C? (B) F (C) A (D) G

49. If farmer LC' has two daughters - A and B as well as one son; D" so what is the relation between D to A?

(A) Sister

Bhabhi (sister-in-law) (B)

(C) Uncle

**Brother** (D)

50. If Ajay is taller than Tara, but shorter than Atul, Atul is shorter than Sharad then who is tallest

(A) Ajay

(B) Tara

(C) Shared

(D) Atul

#### **ENGLISH**

#### Choose the correct word from the options to fill in the blanks-

	1.	Priya her teacl	ner fo	or not submitting the	ass	ignment on due date	<del>)</del> ,	
		(A) apologised to	(B)	annoyed	(C)	argue	(D)	complained
	2.	A wise enemy is	thar	n a foolish friend.				
		(A) good			(C)	best	(D)	None of the above
	3.	The teacher scolded the	stud	dents were	nau	ghty.		
		(A) who	(B)	what		whom	(D)	why
	4.	Time is precious, do not						
	5.	(A) Avaist		west	(C)	waste	(D)	vest
	0.	After a week's rain, the (A) humid	(B)	humidity	(C)	humidness	(D)	None of the above
	6.	Charity begins at						
		(A) hotel	(B)	home	(C)	theater	(D)	abroad
		Direction: Questions below	7 to	10 choose the co	rrec	t meaning of the p	ohra	ses / idioms given
	7.	To give away						
		(A) to distribute	(B)	to sell	(C)	to share	(D)	to take care of
	8.	To hold one's tongue						
		(A) to keep quiet	(B)	to talk loosely	(C)	to examine	(D)	to speak loudly
	9.	Pull somebody's leg						
		(A)to throw someone or (C) to tease someone	ıt			to trip a person to stretch one's legs		
		. ,			(D)	to stretch one's legs		
	10.	Once in a blue moon (A) Happens everyday			(D)	Happen very often		
		(C) Never happens				Happens very rarely	,	
		Direction: Questions	11 to	o 14 Select the w	ord	that is opposite in	n me	eaning to the word
		given.						<b>3</b>
	11.	Disclose						
		(A) to close	(B)	conceal	(C)	to reveal	(D)	to cover
	12.	Inferior						
		(A) mean	(B)	secondary	(C)	superior	(D)	grand
	13.	Innocent						
		(A) ignorance	(B)	simple	(C)	recent	(D)	cunning
	14.	Solitary						
		(A) isolated	(B)	accompanied	(C)	detached	(D)	lonesome
		Direction: Questions 1					•	
		Select the most appro	priat	e option to fill in th	ie bi	anks from the give	n alt	ernatives.
	15.	Medicines should not be					<b>/</b> 5:	N 60 1
		(A) against	(B)	within	(C)	behind	(D)	None of the above
	16.	Neeraj is than			,		<i>,</i>	
		(A) oldest	` ,	as old as	` '	older	` '	more older
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#### He that he was on the wrong floor. 17. (A) reprimanded (B) realized (C) asked (D) None of the above 18. A group of stars that forms a pattern is called a \_ (A) constellation (B) fleet (C) bunch (D) crew Direction: Questions 19 to 23 The following passage contains numbered blank spaces. Fill in the blanks with the appropriate word given in each case. With a culture that has for centuries \_\_\_\_\_(19) deep respect to its natural environment (20) it as the (21) of the gods, it comes as no surprise that the government of (22) a controlled tourism policy. The only means of\_\_\_\_\_ (23) to this gorgeous but land-locked mountain Kingdom is by road through the tiny border town Phuntsholing near the Doars region of West Bengal. 19. (C) anticipated (D) abided (A) accorded (B) subjected 20. (C) guiding (A) generating (B) accepting (D) trying 21. (C) abode (D) forbade (A) assylum (B) alter 22. (A) allowed (B) assigned (C) adopted (D) administered 23. (A) access (B) attack (C) adjust (D) control **Direction: Questions 24 to 27** Read the following passage and answer the questions given after it. Advertisements have almost become an integral part of our lives. Even small children watch TV advertisements with a great deal of interest attracted by its visuals, though, they may not understand its message. Advertisements can be termed as the backbone of the commercial world. If a company or a firm has to popularise its products, it has to advertise through various means such as handbills, posters, printmedia and the television. Advertisements on the TV make an instant appeal to people because of interesting visuals dramatizing the products or services. Today advertisement has become a very powerful factor in our everyday life. Hence, we should be watchful lest we are misled or misinformed by the deceptive advertisements. Those who prepare the matter for advertisement and publicity are called copywriters. They are experts in conveying the message in short, crisp sentences, slogans and eye-catching visuals. 24. Short visuals shown on the TV publicising some products are (A) items (B) fillers (C) advertisements (D) one-act plays 25 Advertisements on the TV make an instant (A) appeal (B) approach (C) approval (D) agreement 26. Those who prepare the matter for advertisements are called. (B) playwrights (C) scriptrwriters (A) dramatists (D) copywriters 27. A message in an advertisement should be (A) detailed (B) lengthy (C) boring (D) short and crisp

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**Direction: Questions 28 to 39** 

Read the passage and answer the questions given below it.

When I fell asleep, I dreamt about what it would be like to have a rocket ship. If I had a rocket ship my fast destination would be Earth's moon which is called Luna. When I will go to Luna I would jump all around because there is little gravity. I would be able to jump very high. After this, I would fly to Saturn and travel around its beautiful rings. On my way to Saturn, I would try to avoid Asteroids. Asteroids are large pieces of rock and minerals.

In my science class I learnt that it would take me almost my entire life to travel to Pluto which is the last planet in our solar system. Pluto is so far from our Sun that it is super cold. I wish I could see Pluto UP close.

28.	What is the name of Earth's mo (A) Moona (B) M		(C) Loona	(D) Luna
29.	Which of the following is true (A) You wouldn't be able to jum (B) The Moon's gravity will allog (C) The Earth has less gravity to (D) Pluto is super hot	w you to jump hig	h	
30.	What is the unique feature of S (A) It's a moon (C) It is bright pink in colour	Saturn?	(B) It has lots of water (D) It has rings	
31.	Asteroids are (A) large piece of rock & minera (C) mountain peaks	al	(B) reservoirs of water (D) None of the above	
32.	Which is the last planet in our s (A) Sun (B) M		(C)Pluto	(D) Saturn
Directi	on: Questions 33 to 43			
Choose	e the word which best fills the bla	ank from the four	options given	
33.	They always him for his acc (A) pull (B) te		(C) chase	(D) None of the above
34.	Our gardner went to the to buy (A) orchard (B) nu	a few pots of the rsery	flowering plants. (C) estate	(D) plantation
35.	is a paper written in o  (A) Manuscript (B) T			(D) None of the above
36.	The students get a monthly(A) grade (B) assignmen		ly consists of writing a re (C) point	port. (D) register
37.	The donkeywhen a heaven (A) brayed (B) trumpeted		n its back. (C) grunted	(D) bellowed
38.	The hardworking farmer tilled the (A) midnight (B) dusk	heir farms from da	awn to (C) twilight	(D) sunrise
39.	The police has captured the en (A) troup (B) crew	itireof	thieves. (C) gang	(D) party
40.	The previous owner of our factor (A) installed (B) established		glar alarm system in the (C) executed	factory. (D) implemented

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41.	Everyone was _ (A) interested	by a device s (B) fascinated	small enough to fit on a de (C) satisfied	esk. (D) scrutinized
42.	I'll think	your idea carefully before (B) in	e I take a final decision (C) to	(D) under
43.	He died (A) to	cholera. (B) upon	(C) of	(D) in
44.	The captain (A) ordered	his brave soldie (B) requested		(D) pleaded
	on : Questions he blanks with the	<b>45 to 50</b> e right form of the verb.		
45.		no mystery so great as m (B) is	isery. (C) am	(D) none of these
46.	You (A) tell	_me of marvellous things (B) writes	(C) tells	(D) speaks
47.	The Happy Prin (A) look	ncesad. (B) looked	(C) say	(D) none of these
48.	Kalids (A) read	_Shakuntalam. (B) wrote	(C) write	(D) written
49.	They have (A) prepare	a project. (B) prepares	(C) prepared	(D) been prepared
50.		before you speak. (B) laugh	(C) hurry	(D) think

#### **PHYSICS**

1.	A 4 $\Omega$ resistance wire is doubled by folding it, the	new resistance is
	(A) 1Ω	(B) 2Ω
	(C) 3Ω	(D) None of these
2.	Which of the following terms does not represent e (A) I <sup>2</sup> R	lectrical power in a circuit: (B) IR <sup>2</sup>
	(C) VI	(D) V <sup>2</sup> /R
3.	is	equal to 8 main scale divisions (m.m.), then what the least count of vernier calliper?
	(A) 0.2mm (C) 0.8mm	(B) 0.1 mm (D) 0.01 mm
4.	second.	ation is 'a' then find the distance travelled in nth
	$(A) S_n = un + \frac{an^2}{2}$	(B) $S_n = un + an^2$
	(C) $S_n = u + \frac{a}{2}(2n+1)$	(D) $S_n = \left(u + \frac{a}{2}\right)n^2$
5.	What is the temperature which is identical in both 0	
	(A) – 40° (C) 0°	(B) -4° (D) none of the above
6.	km/h then average speed of the person is	d of 50 km/h and comes back with a speed of 150
	(A) 100 km/h (C) 0 km/h	(B) 75 km/h (D) 200 km/h
7.	Angle of elevation of pole star observed from any v (A) longitude of the place (C) constant	where on the Earth is approximately equal to (B) latitude of that place (D) both longitude and latitude
8.	If 3 resistances $R_1$ , $R_2$ and $R_3$ are connected resistances are $R_8$ and $R_p$ respectively then corre	
	(A) $R_s < R_3, R_P > R_1$	(B) $R_s = R_1 + R_2 + R_3, R_P = \frac{R_1^2 + R_2^2 + R_3^2}{R_1 + R_2 + R_3}$
	(C) $R_S < R_P$	(d) $R_S > R_1, R_P < R_3$
9.	Between which 2 planets the orbit of Seres lies (A) Earth-Mars	(B) Venus-Earth
10.	<ul><li>(C) Mars-Jupiter</li><li>Dentists use to see large image of the teeth of part</li><li>(A) Convex mirror</li><li>(C) Concave lens</li></ul>	<ul><li>(D) Jupiter-Saturn</li><li>tients using</li><li>(B) Convex lens</li><li>(D) Concave mirror</li></ul>
11.	A human being has a horizontal field of view of a with (A) 120°, 150° (C) 180°, 210°	about with one eye and of about both eyes (B) 150°, 180° (D) 210°,240°
12.	To prevent electrical circuits from damage we use (A) high resistance and low melting point (C) low resistance and low melting point	fuse wire of (B) high resistance and high melting point (D) low resistance and high melting point
4.0	D: ( ) ( ) ( )	

#### **CHEMISTRY**

- 14. All the elements in a group have the -
  - (A) Same valency

(B) Different valency

(C) Variable valency

- (D) None of these
- 15. The atomic number of E, F, G, H are given below, which element belongs to zero group -

Element

Atomic number

- (A) E
- (B) F
- (C) G

7 10

5

(D) H

- 16
- 16. Which of the following compounds is bad conductor of electricity?
  - (A) Ionic compound

(B) Electrovalent compound

(C) Covalent compound

- (D) None of these
- 17. The addition of oxygen to a substance is called -
  - (A) Redox

(B) Oxidation

(C) Reduction

- (D) None of these
- 18. The molecular formula of Sucrose is -
  - (A) CH<sub>2</sub>O

(B) C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

(C) C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>

(D) CH<sub>3</sub>COOH

- 19. Coal is a fuel-
  - (A) Fossil fuel

(B) Nuclear fuel

(C) Bio fuel

(D) None of these

- 20. Strong electrolytes is -
  - (A) NH<sub>4</sub>OH

(B) Ca(OH)<sub>2</sub>

(C) H<sub>2</sub>CO<sub>3</sub>

(D) NaCl

21. Chemical formula of Teflon is -

(A) 
$$(-CF_2 - CF_2 -)_n$$

(C) 
$$(-CH_2 - CH_2 -)_n$$

- (D) None of these
- 22. The properties of the product are different from those of the constituents is called -
  - (A) Mixture

(B) Element

(C) Compound

- (D) Acid
- 23. Which Vitamin is found in abundance in Amla?
  - (A) Vitamin-A

(B) Vitamin-C

(C) Vitamin-B

- (D) Vitamin-D
- 24. Dilute solution of alkaline potassium permanganate is known as -
  - (A) Bayer's reagent

(B) Tollen's reagent

(C) Fehling solution

- (D) Benedict solution
- 25. The chemical formula of Plaster of Paris is
  - (A) Calcium Sulphate [CaSO<sub>4</sub>]

(B) Calcium Sulphate Hemihydrate

- [CaSO<sub>4</sub> ½H<sub>2</sub>O]
- (C) Barium Sulphate [BaSO<sub>4</sub>]

(D) None of these

- 26. Bromine is a
  - (A) Non-metal

(B) Metal

(C) Metalloids

(D) None of these

27.	The study of interaction between living organism (A) Ecology (B) Phytogeography		environment called Psychology		Mycology
28.	In how many parts human brain is divided - (A) 4 (B) 5	(C)	3	(D)	2
29.	Chromosome number in the daughter cells after (A) 1/2 (B) 1/3	meio (C)	osis is - 1/4	(D)	1/5
30.	The instrument for measuring blood pressure is (A) Manometer (C) Barometer	(C)	d - Sphygmomanomete Potentiometer	er	
31.	The anther contains - (A) Sepal (B) Carpel	(C)	Petal	(D)	Pollen grains
32.	The largest gland in human body is - (A) Pituitarygland (B) Liver	(C)	Adrenal gland	(D)	Thyroid gland
33.	Which cell organelle is known as suicidal bag (A) Ribosome (B) Centrosome	(C)	Lysosome	(D)	Peroxysome
34.	Plant part used as medicine of Terminalia arjuna (A) Leaves (B) Fruits		Bark	(D)	Roots
35.	Energy flow in an Ecosystem is – (A) Unidirectional (B) Bidirectional	(C)	Multidirectional	(D)	None of these
36.	World Environment Day is celebrated on - (A) 5 June (B) 11 July	(C)	16 October	(D)	26 December
37.	C <sub>4</sub> cycle mechanism is given by - (A) Hill (B) Arnan	(C)	Hatch & Slack	(D)	Celvin
38.	Which pollutant is dangerous for Taj Mahal? (A) Sulphur dioxide SO, (C) Carbon monooxide CO	(B) (D)	Carbon dioxide All of these	CO,	
39. 40.	Which of the following is an example of Insective (A) Amla (B) Baheda Which is prokaryotic cell amongst the following? (A) Amoeba (B) Bacteria	(C)	s plant - Utricularia Yeast	` ,	Isoetes Volvox

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41.	Big Bath has been found in which of the Indus valley (A) Harappa (B) Mohenjodaro (C)	/ site? Lothal	(D) Chahnudaro
42.	Which statement about the position of women in the (A) They enjoyed high status in the society. (B) Parda system and child marriages were prevaler (C) They had right to higher education, (D) Dowry was not known.		not true?
43.		In the Indus Valley of During the Gupta pe	
44.		Priyadasi? Chandra Gupta Ma Brihadatta	urya
45.	What are tripitakas? (A) Vedic Literature (B) Compilation of Buddha's sermons (C) Main principles of Lord Mahavira (D) Compilation of account of Alexander's invasion in	nto India	
46.		r strengthening admi Rajiya Feroze-Shah-Tugh	
47.		nad sultan'? Feroze-Shah-Tughla Alauddin-Khilji	aq
48.	To which place of Madhya Pradesh is Jungle Satyag (A) Reewa (B) Indore (C)	graha related? Chhatarpur	(D) Seoni
49.	Who was the Governor General of India in 1857? (A) Dalhousie (B) William Bentick (C)	Canning	(D) Rippon
50.		freedom struggle? Lala Lajpat Rai Bal Gangadhar Tila	k
51.	What was the main objective of British in dividing Be (A) To strengthen administrative system in Bengal (B) To suppress nationalist feelings (C) To promote nationalist feelings (D) To help in promotion of language and culture	ngal?	
52.		inspire the people Samvad Kaumudi Kayastha Samacha	
53.	Communal electorate was first introduced through w (A) 1773 Act (B) 1861Act (C)	hich Act? 1909Act	(D) 1919Act
54.	Which Article of the Indian constitution gives a speci (A) 370 (B) 395 (C)	al status to the state 368	of Jammu & Kashmir? (D) 384
55.  Download	How many times has National emergency been decloped (A) One http://cbseportal.co		(D) Courtesy : NTSE

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56.	Oldest mountain in India (A) Himalaya	a is: (B) Vindhyachal	(C) Satpura	(D) Aravali
57.	Where is Bharat Heavy (A) Sagar	Electricals Limited (BHE (B) Bhopal	L) situated? (C) Indore	(D) Jabalpur
58.	Which of the following is (A)Climate	s the most important fact (B) Type of soil	or to determine the type (C) Productivity of soil	
59.	Which of the following is (A) Uranium	s everlasting physical res (B) Coal	source for power generat (C) Petroleum	ion in India? (D) Water
60.	Madhya Pradesh is (A) Second	largest state of India	a in term of area. (C) First	(D) Fourth
61.	The leading producer of (A) Jharkhand	f coal in India. (B) Bihar	(C) Rajasthan	(D) Andhra Pradesh
62.	Thehighest rainfall in the (A) Chcrrapunji	e world is received at (B) Mawsynram	(C) Shilong	(D) Calicut
63.	Which of the following r (A) Narmada	iver does not fall in the B (B) Vanganga	ay of Bengal- (C) Mahanadi	(D) Krishna
64.	Blue revolution is relate (A) Fruit Production		(C) Sheep rearing	(D) Milk Production
65.	How many railway zone (A) 9	es are there in India? (B) 6	(C) 14	(D) 15
66.	Tropic of cancer does n (A) Gujarat	ot pass through which of (B) Rajasthan	the following States? (C) West Bengal	(D) Orissa
67.	The Nagarjun Sagar Da (A) Godavari	nm is located on the river (B) Krishna	(C) Kaveri	(D) Narmada
68.	Topographical Maps of (A) Geological Survey (C) Survey of India		(B) Archaeological Surv (D) National Geograph	
69.	What is Bailadila famou (A) Bauxite	s for? (B) Iron Ore	(C) Copper	(D) Coal
70.	In which region is the m (A) Delta region	ethod of making contour (B) Plateau region	bands used for soil cons (C) Hills	servation? (D) Plains

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## **CIVICS**

71.	In a parliamentary form of Government, real p (A) President (C) Prime-Minister	oowers of the State are vested in which body? (B) Chief Justice of Supreme Court (D) Parliament
72.	Which fundamental right of Indian Constitution (A) Right against exploitation (C) Right to liberty	n has been deleted by the 44th Amendment Act? (B) Right to property (D) Right to equality
73.	When is 'Human Right Day' celebrated? (A) 10th November (C) 10th January	(B) 10th December (D) 10th October
74.	Who is known as the father of Indian Constitu (A) Dr. B. R. Ambedkar (C) Jawaharlal Nehru	tion? (B) Mahatma Gandhi (D) Sardar Patel
75.	The term of member of the Rajya Sabha is (A) 5 years (C) 6 years	(B) 2 years (D) Same as that of the Lok Sabha
	ECONO	<u>DMICS</u>
76.	What is Barter System? (A) Exchange of goods for dollars (C) Exchange of goods for coins	<ul><li>(B) Exchange of goods for rupees</li><li>(D) Exchange of goods for goods</li></ul>
77.	On what basis the enterprises are classified in (A) Employment conditions (C) Ownership of Enterprise (D)	n 'Public' and 'Private' sectors?  (B) Nature of Economic activities  Number of workers employed
78.	In ancient times, which country was known as (A) France (C) J & K India	s 'Golden Sparrow'? (B) New Zealand (D) China
79.	In India, the first five-year plan started from w (A) 1947 (B) 1951	hich year? (C) 1948 (D) 1950
80.	In which of the following sectors only services (A) In private sector (C) In secondary sector	s are produced?  (B) In primary sector  (D) In tertiary sector
	MATHEM	MATICS
81.	If in a right angled triangle ABC, $\cos A = \frac{9}{41}$ , the	en the value of cot A and cosecA will be
	(A) $\frac{40}{9}, \frac{40}{41}$	(B) $\frac{9}{40}, \frac{41}{40}$
	(C) $\frac{9}{41}, \frac{41}{9}$	(D) $\frac{9}{40}, \frac{40}{41}$
82.	In $\triangle ABC$ , if $\angle B = 90^{\circ}$ , $AB = 5$ , $BC = 12$ , then sin (	O=
	(A) $\frac{12}{13}$	(B) $\frac{5}{13}$
	(C) $\frac{5}{12}$	(D) $\frac{13}{5}$

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	93.	Which point on x-axis is equidistant from the point (A) (0, 4) (C) (3, 0)	A(7,6) and B(-3,4)? (B) (-4, 0) (D) (0, 3)		
	92.	The length of the longest pole that can be kept in a (A) 29m (C) 21m	a room of size 12m × 9m × 8 (B) 17 m (D) 19 m	ßm is :	
	91.	The total surface area of a cube is 864 cm <sup>2</sup> . Its vol. (A) 3456 cm <sup>3</sup> (C) 1728 cm <sup>3</sup>	ume is : (B) 432 cm³ (D) 3466 cm³		
	90.	The perimeter of the rectangular field is 206 meters more than its breadth?  (A) 1520 meter <sup>2</sup> (C) 2480 meter <sup>2</sup>	er. What will be its area if i (B) 2420 meter <sup>2</sup> (D) 2520 meter <sup>2</sup>	ts length is 23 meter	
	89.	One card is drawn at random from a deck of 52 ca (A) $\frac{3}{13}$ (C) $\frac{3}{26}$	rds. The probability of gettin (B) $\frac{1}{26}$ (D) $\frac{4}{13}$	g a face card is	
	88.	What is the probability that a leap year has 53 Sun (A) $\frac{7}{53}$ (C) $\frac{1}{7}$	days? (B) $\frac{7}{52}$ (D) $\frac{2}{7}$		
	87.	The area of right angled triangle is 96sq mtr. If bas –  (A) 24 mtr.  (C) 18 mtr.	e is three times the altitude, (B) 20 mtr. (D) 15 mtr.	, the length of base is	
	86.	The product of Meera's age 5 years ago and her ag (A) 11 years (C) 7 years	(B) 9 years (D) 5 years		
		(A) $k \le \frac{1}{3}$ (C) $k = \frac{2}{3}$ only	(B) $k \ge \frac{1}{3}$ (D) None of the above		
	85.	(C) $\frac{1}{\sqrt{2}}$ For what value of k, the equation $3x^2 + 2x + k = 0$			
		$\frac{\cos ec^2\theta - \sec^2\theta}{\cos ec^2\theta + \sec^2\theta} \ \text{is} \\ \text{(A)} \ \sqrt{3}$	(B) 1		
	84.	If $\tan \theta = \frac{1}{\sqrt{3}}$ , then the value of	` '		
	83.	$(\sec \theta + \tan \theta)(1 - \sin \theta) = \dots$ (A) 0 (C) $\cos \theta$	(B) = 1 (D) sinθ		

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94.	The point A(0, 6), B(-5, 3) and C(3, 1) are the verti (A) Isosceles (C) Rightangled					
95.	The x-axis divides the line joining A(2, $-3$ ) and B(7 (A) 2 : 1.5 (C) 3 : 2	(, 4) in the ratio : (B) 2 : 3 (D) 1 : 2				
96.	If A and B are two non empty sets, then $A \cup B =$ (A) $\{x \mid x \in A \text{ and } x \in B\}$ (C) $\{x \mid x \in A \text{ and } x \notin B\}$	(B) $\{x \mid x \in A \text{ or } x \in B\}$ (D) $\{x \mid x \notin A \text{ and } x \in B\}$				
97.	If A is a non empty set, $ \varphi $ is empty set $ \cup $ and is u (A) $ \cup $ (C) $ \varphi $	niversal set, then $A \cap \phi =$ (B) a (D) A'				
98.	Selling price of one things is $\frac{3}{2}$ times of its cost price (A) $20\frac{1}{2}$ (C) $33\frac{1}{3}$	s $\frac{3}{2}$ times of its cost price. What will be the percentage of profit? (B) $25\frac{1}{4}$ (D) 50				

99. A sold a bicycle to B on 20% profit. B sold it to C on 25% profit. If C paid Rs. 225 for it, then what was the cost price of bicycle to A?

(A) 110

(B) 125

(C) 120

(D) 150

100. The height of a cylinder is 14 cm and its curved surface area is 264 cm<sup>2</sup>, the volume of cylinder is :

(A) 308 cm<sup>3</sup>

(B) 396 cm<sup>3</sup>

(C) 1232 cm<sup>3</sup>

(D) 1848 cm<sup>3</sup>