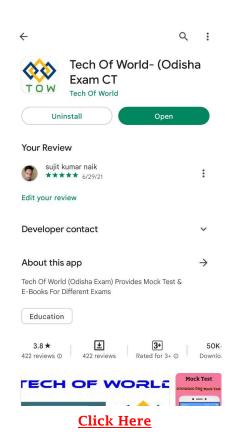




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Question Booklet No:

# **QUESTION BOOKLET**

### Entrance test B.Ed. Admission/

#### **B.Ed. Science Stream 2017**

#### **General Instructions**

	The second secon
Roll Number :	QP Code : C

- This Computerized OMR Answer Sheet is to be filled in by BLACK INK / BLUE BALL PONT only.
  - ଏହି କମ୍ପ୍ୟୁଟରୀକୃତ OMR ର ଉତ୍ତର ପୁରଣ କରିବାପାଇଁ କଳା/ନୀଳ କାଳି ଥିବା ବଲପଏଣ୍ଡପେନ ବ୍ୟବହାର କରନ୍ତୁ ।
- Since answers and other particulars are to be filled in with Black / Blue ink Ball-Point Pen, there
  is no provision for change of answers by eraser / blade / white fluid etc. Therefore, all particulars
  including ansers are to be filled in VERY CAREFULLY. Kindly note that the OMR Answer Sheet
  will not be replaced under any circumstances.
  - ଯେହେତୁ ଲିଭାଇବାର ବ୍ୟବସ୍ଥାନାହିଁ । ତେଣୁ ଉତ୍ତରକୁ ଓ ସମୟ ବିବରଣୀ ଅତ୍ୟନ୍ତ ଧ୍ୟାନ ସହକା<mark>ରେ ପୂର</mark>ଣ କର<mark>ନ୍ତୁ ।</mark> ଦୟାକରି ଧ୍ୟାନ ଦିଅନ୍ତୁ, ଯେ କୌଣସି ପରିସ୍ଥିତିରେ OMR ଉତ୍ତର ପତ୍ରିକା ବଦଳ କରାଯିବ ନାହିଁ ।
- 3. Darken only one circle for Answer of each question as shown in the example given below. Markeing should be dark and the circle is to be filled in completely as shown in the example. ନିମ୍ନ ଉଦାହରଣରେ ଦର୍ଶାଯାଇଥିବା ଭଳି ପ୍ରତ୍ୟେକ ଉଉର ପାଇଁ କେବଳ ଗୋଟିଏ ହିଁ ଗୋଲ କଳା କରନ୍ତୁ । ଉଦାହରଣରେ ଦର୍ଶାଯାଇଥିବା ଭଳି ପୁରା ଗୋଲରେ ଗାଢ କଳା/ନୀଳ ରଙ୍ଗ ଚିହ୍ନ କରାଯିବା ଉଚିତ୍ ।
- 4. There is only one correct response for each question. More than one response to a single question shall be treated as negative response. For each negative marking, 0.25 marks shall be deducted from your total marks.
  - ପ୍ରତ୍ୟେକ ପ୍ରଶ୍ନ ପାଇଁ ଗୋଟିଏ ନିର୍ଦ୍ଦିଷ ଉତ୍ତର ଅଛି । ଯଦି <mark>ଗୋଟିଏ ନିର୍ଦ୍ଦିଷ</mark> ପ୍ରଶ୍ନର ଉତ୍ତର ପାଇଁ ଏକାଧିକ ଗୋଲକୁ ରଙ୍ଗ କରାଯାଇଥାଏ, ତେବେ ତାହା ଭୁଲ ଉତ୍ତର ଭାବେ ବିବେଚନା କରା<mark>ଯିବ ।</mark> ପ୍ରତ୍ୟେକ ଭୁଲ ଉତ୍ତର ପାଇଁ ଏକାଧିକ ଗୋଲକୁ ରଙ୍ଗ କରାଯାଇଥାଏ, ତେବେ ତାହା ଭୁଲ ଉତ୍ତର ଭାବେ ବିବେଚନା କରାଯି<mark>ବ ।</mark> ପ୍ରତ୍ୟେକ ଭୁଲ ଉତ୍ତର ପାଇଁ ୦.୨୫ ମାର୍କ କରାଯିବ ।
- 5. Mark your answer only in the space provided. Please do not mark any other thing on the OMR answer sheet. କେବଳ ଦିଆଯାଇଥବା ସ୍ଥାନରେ ହିଁ ନଳର ଉଉର ଚିହ୍ନିତ କରନ୍ତୁ । ଏହି ପୁଞ୍ଜିକାର କୌଣସି ସ୍ଥାନରେ ଅନାବଶ୍ୟକ ଚିହ୍ନ ଦିଅନ୍ତୁ ନାହିଁ ।
- 6. Rough work should not be done on this OMR Answer sheet. Use rough sheets provided at the end of the question booklet, for rough work.

  OMR ଉତ୍ତର ପତ୍ରିକାରେ ରଫ୍ କାମ କରନ୍ତ ନାହିଁ । ରଫ୍ କାମ ପାଇଁ ପୁଶୁ ପୁଞ୍ଜିକାର ପଛପଟରେ ଥିବା ରଫ୍ ସ୍ଥାନ / କାଗଳ ବ୍ୟବହାର
  - चित्र होता होते स्ति सारा सहित्र होता । हात् सारा साम पुत्र पुष्टमाहा प्रश्चातिहार होता होते पुष्ट प्राह्म वनवरण
- 7. Do not fold OMR Answer Sheet, Carbon copy of OMR answer sheet can be taken away by the candidate.
  - OMR ଉତ୍ତର ପତ୍ରିକାକୁ ଭାଙ୍ଗ କରନ୍ତୁ ନାହିଁ । ଉତ୍ତର ପତ୍ରିକାର କାର୍ବନ କପି ପ୍ରାର୍ଥୀ ନେବା ଆବଶ୍ୟକ ।

Please read the following instructions carefully:

1. Write your Roll Number, Question Booklet Number and Question Booklet Series on the OMR Answer Sheet carefully and sign at the appropriate place. Please note that in absence of the correct Roll number, Question Booklet Number, Question Booklet Series and Signature on the OMR Answer Sheet, your OMR Answer Sheet will be treated as invalied and will not be evaluated.

 Strictly follow the instructions given by the Centre Superintendent / Centre Observer/Room Invigilator and instructions given on the Question Booklet.

Please see the last page for complete instrucitons

# SECTION-I

1.	The red blood cells ar	e formed in :		
	(A) Bone marrow	(B) Lymph nodes	(C) Liver	(D) Heart
2.	Which bacteria is resp	onsible for the forma	ation of curd?	
	(A) Bacillus radicicola		(B) Lactobacillus au	reus
	(C) Lactobacillus acide	ophillus	(D) Lactic acid bacte	eria
3.	Which day is observe	d as National Techno	logy Day?	
	(A) May 11	(B) May 13	(C) June 11	(D) June 13
4.	According to Swachh	Bharat Survey which	is India's cleanest city	y?
	(A) Surat	(B) Indore	(C) Patna	(D) Gonda
5.	Which of the following	oceans has the sha	pe of English alphabe	t 'S'?
./	(A) Arctic ocean	(B) Indian ocean	(C) Atlantic ocean	(D) Pacific ocean
6.	Which article of our C employed to work in a employment".			
	(A) Article 47	(B) Article 24	(C) Article 45	(D) Article 330
7.	The full form of NAAC	is:	10	
	(A) Nasa Auronotics a	and Assessment Cour	ncil	
	(B) National Assignment	ent and Assessment (	Council	
	(C) National Assessm	ent and Accreditation	Council	
	(D) None of these			
8.	National Education Da	ay was <mark>celebrat</mark> ed on	the birthday of nation	nal leader:
	(A) Sarojini Naidu (B	) J.S. Kriplani (C) Ra	jiv Gandhi (D) Maular	na Abdul Kalam Azad
9.	When was the United	Nations Organisation	n founded?	
	(A) Dec. 10, 1945	(B) Oct. 24, 1945	(C) Oct. 24, 1944	(D) Dec. 9, 1945
10.	The Speaker of Lok S	abha is elected by :		
	(A) Prime Minister		(B) President	
	(C) Members of both	Houses of Parliamen	t (D) Members of Lok	Sabha
11.	Choose the Synonym	for the word 'Cause'		
	(A) Reason	(B) Principle	(C) Motive	(D) Belief
12.	Choose the right anto	nym for the word 'Ha	rd'.	
	(A) Harsh	(B) Soft	(C) Humble	(D) Firm
13.	Fill the right conjuncti	ons in the blanks :		
	Divya Dim	ole studied hard	are not able to	pass the examination.
	(A) and, but	(B) or, but	(C) but, or	(D) with, but

14.	Choose the correct sentence for the given of	one:			
	Suman said, "What a pleasant weather!"		¥		
	<ul><li>(A) Suman exclaimed that the weather was very pleasant.</li><li>(B) Suman declared that the weather was very pleasant.</li></ul>				
	(C) Suman wished that the weather was ve	ry pleasant.	*		
	(D) Suman disapproved that the weather wa	as very pleasant.			
15.	Choose the correct modal and fill the blank	700 T	in		
	You attend the class.	wtal.	TTE		
	(A) may (B) might	(C) must	(D) surely		
16.	Choose the correct adverb for the following	sentence:			
	She walks due to old age.				
100	(A) slowly (B) fastly	(C) very fast	(D) slow		
17.	Choose the similar meaning for the given w	ord : 'Progressive'			
	(A) Technology (B) Advancement	(C) Materialistic	(D) Empowerment		
Rea	d the following passage and answer the que	estions from 18 to 20:			
a do	For many years people believed that the cle y, however, there is a proof that dolphins may be dephin lives in a sea but it is not a fish. It is a lian being.	be even cleverer than	these big apes. Although		
	Dolphins have a simple language. They are	able to talk to one an	other. It may be possible		
the I	nan to learn how to talk to dolphins. But this within the sounds man can make. If man wants e a third language which both he and dolphi	will not be easy becaus to talk to dolphins, t	ise dolphins cannot hear		
	Dolphins are also very friendly towards m		ships. There are many		
stori	es of dolphins <mark>guidin</mark> g ships through difficult	and dangerous water	rs.		
18.	Which animals do people think may be the	cleverest after man for	or many years?		
	(A) Chimpanzees (B) Dolphins	(C) Big apes	(D) Mammals		
19.	What other beings are dolphins like in man	y ways?			
	(A) Fish (B) Animals	(C) Reptiles	(D) Human		
20.	What have scientists discovered about dolp	phins?			
	(A) They understand simple language	(B) They can speak	to one another		
	(C) Men can now talk to them	(D) They can teach	men their language		
21.	The most effective method of character for	mation is:			
	(A) Teaching virtues through religious book	s (B) Teaching by his	gh character teachers		
	(C) Organising specialists lectures on impo	rtance of values in life	9		
	(D) Rewarding virtuous behaviours and pre	senting high characte	er models in the schools		

22.	The intellectual skills are reflected by :	
	(A) Cognitive domain	(B) Psychomotor domain
	(C) Affective domain	(D) None of these
23.		The state of the s
25.	The real goal of the education should	
	(A) Securing a certificate	(B) Training to made a living
0.4	(C) Mastery of the subject matter	(D) Acquiring skills, habits and knowledge
24.	is this?	earn as if you were to live forever". Whose quote
	(A) Mark Twain (B) Oscar Wilde	(C) Nelson Mandela (D) Mahatma Gandhi
25.	The technique of measurement of the as :	patterns of social behaviour in a group is known
	(A) Sociometry	(B) Sociogram
	(C) Social distance scale	(D) Interactional analysis
26.	What is the use of text book in a class	?
	(A) To achieve teaching learning object	ctives (B) To delimit what is to be taught
	(C) To ease the work of the teacher	(D) To set new standards
27.	John Locke's phrase of 'Tabula Rasa'	means:
	(A) Tal and Ras	(B) Free education
	(C) Mind itself is a result of the process	s of evolution
	(D) All of the above	
28.	Most important work of teacher is:	
	(A) To maintain discipline	(B) To organise teaching work effectively
	(C) To take care of students	(D) To check the papers of the students
29.	If majority of the students in your class	s are weak, you should :
	(A) Not care about bright students	
-	(B) Keep your teaching slow along wit	h some extra guidance to the bright students
	(C) Keep your teaching slow	
	(D) Keep your speed fast to increase to	the comprehensive of the students
30.	The real aim of teaching is:	-,
	(A) To give knowledge and information	(B) To involve pupils in activities
	(C) To impart knowledge	(D) Desirable change in behaviour
31.	If 'P' denotes as '÷' 'O' denotes as '+'	'R' denotes as '-' and 'S' denotes as 'x', then :
51.	60 R 15 P 3 S 6 Q 4 = ?	Traditional and o delivies as x, men.
		(C) 94 (D) 150
	(A) 30 (B) 34	(C) 94 (D) 150

32.	Of the following two false. Which are the		which cannot be true,	but both can also be
	I. All machines make	noise.		
	II. Some machines a	re noisy.		
	III. No machine mak	e noise.		
	IV. Some machines	are not noisy.		
+	(A) I & II	(B) III & IV	(C) I & III	(D) II & IV
33.		, William said, "Her o woman related to Wi		ner of my daughter's
	(A) Sister	(B) Mother	(C) Grandmother	(D) Aunt
34.	Count the number of	f triangles in the give	n figure :	
		`A	^	
		//2	2	
	(A) 9	(B) 8	(C) 6	(D) 7
35.	From the given alter given word : MATHE		ord which can be forn	ned using the letters of the
	(A) TEAM	(B) TEASE	(C) TAUGHT	(D) None of these A
36.	Motorcycle is related	d to Battery in the sar	me way a life is relate	ed to:
	(A) Earth	(B) Sun	(C) Moon	(D) Star
37.				es and turns left and walks rection he is facing now?
	(A) north	(B) south	(C) north east	(D) west
38.		e 'No more food' is w s 'that' written in that		more than that' is written
	(A) sa	(B) ka	(C) ta	(D) data inadequate
39.	In a certain code, LI BLUE be written in		TE and FATE is writte	en as GATE, then how will
	(A) CLUE	(B) GLUE	(C) FLUE	(D) SLUE G+15=22
40.	If GO=32, SHE=49,	then SOME will be e	qual to :	
	(A) 56	(B) 58	(C) 62	(D) 64
41.	In order to join the t	eaching profession w	hat is more importan	nt?
	(A) Percentage of m (C) Your belonging	narks to reserved category	(B) Teaching aptitu (D) Belonging to a	
42.	If you come to know	that a student of you	urs has started taking	g drugs, what will you do?
	(A) Report to the pri	ncipal	(B) Turn him out of	f the class for a week
	(C) Inform his parer	nts	(D) Will ignore his	mistakes

43.	Which of the following affects an individua	al's development at a	a given time?	
	(A) Their experiences	(B) Interaction of na	ature and nurture	
	(C) Inherited potentialities	(D) Social pressure	on the individual	
44.	The best remedy of the student's problem	ms related with learning is:		
	(A) Diagnostic teaching	(B) Suggestion for	private tutor	
	(C) Supervised study	(D) Suggestion for	hard work	
45.	Which quality of human being is necessar	ry to lead a happy life	e?	
	(A) Capability of evaluation	(B) Capability of the	ought and logic	
	(C) Capability of thought	(D) Capability of im	agination	
46.	The ideal teacher:		1. 24	
	(A) Teaches the whole curriculum	(B) Helps the stude	ents in learning	
	(C) Maintain good discipline	(D) Is a friend, philo	osopher & guide	
47.	'Education' as per the Constitution of Indi	a finds the entry in :		
	(A) Concurrent list (B) State list	(C) Centre list	(D) None of these	
48.	Which commission was appointed as a re	esult of agitations?		
	(A) Charter (B) Lord Macaulay	(C) Wood's	(D) Hunter	
49.	Maximum classroom problems are due to	o:		
	(A) Faulty curriculum	(B) Less intelligent	students	
	(C) Ineffective teaching	(D) Faulty examina	tion system	
50.	Which ministry at the centre deals with e	ducation :		
	(A) Education Ministry		(B) Finance Ministry	
	(C) Human Resources Development Min	istry	(D) All of the above	
	SEC	TION-II		
51.	Which gas causes acidic rain?			
	(A) H <sub>2</sub> (B) SO <sub>2</sub>	(C) O <sub>3</sub>	(D) N <sub>2</sub>	
52.	Composition of natural gas :			
	(A) Methane, Ethane, Hydrogen Sulphide	e (B) Ethyne, Carbor	Dioxide	
	(C) Propane, Sulphur Dioxide	(D) None of these		
53.	Vermi composting is done by :			
	(A) Worms (B) Fungus	(C) Bacteria	(D) Animals	
54.	Malaria is caused by :			
	(A) Bacteria (B) Fungus	(C) Virus	(D) Protozoa	
55.	What is reason of colour blindness?			
	(A) Deficiency of iron	(B) Defect in eye re	ods	
	(C) Defect in eye cone	(D) None of these		

56.	Green plants of an eco system are called :			
	(A) D-composer	(B) Consumer	(C) Producer	(D) None of these
57.	D.D.T. is:			
	(A) Non-biogradable	pollutant	(B) Biogradable po	llutant
	(C) Antibiotics		(D) None of these	
58.	Water soluble vitamin	n is:		
	(A) Vitamin-C	(B) Vitamin-A	(C) Vitamin-D	(D) Vitamin-K
59.	The amount of energ	y liberated by burnir	ng of carbohydrates:	
5	(A) 37 KJ/gm	(B) 37 gm/gm	(C) 17 KJ/gm	(D) None of these
60.	The ozone layer lies	:		
	(A) Within the tropos	phere	(B) Within the strat	osphere
	(C) Just below tropos	sphere	(D) None of these	Y
61.	If $\frac{1}{5}: \frac{1}{x} = \frac{1}{x}: \frac{1}{1.25}$ , then	the value of x is :		) v
	(A) 1.5	(B) 2	(C) 2.5	(D) 3.5
62.	<ol> <li>A sum of Rs. 53 is divided among A, B, C in such a way that A gets Rs. 7 more that what B gets and B gets Rs. 8 more than what C gets. The ratio of their shares is:</li> </ol>			
	(A) 16:9:18	(B) 25:18:10	(C) 18:25:10	(D) 15:8:30
63.	$\frac{\log \sqrt{8}}{\log 8}$ is equal to :	CUS		
	(A) $\frac{1}{\sqrt{8}}$	(B) $\frac{1}{4}$	(C) $\frac{1}{2}$	(D) $\frac{1}{8}$
64.	Which of the following	ng is a false statemer	nt?	-
	(A) All whole number	rs are integers	(B) All integers are	rational
	(C) All real numbers	are rational	(D) All fractions are	e real numbers
65.	Which of the following	ng is a prime number	?	
	(A),889	(B) 997	(C) 899	(D) 1147.
66.	Which of the following	ng is not a fundamen	tal particle of an ator	
	(A) Proton	(B) Neutron	(C) Alpha Particle	(D) Electron
67.	Which metal was use	ed by Rutherford in h	nis alpha scattering e	experiment?
	(A) Gold	(B) Platinum	(C) Silver	(D) Lead
68.	What is the mass of	an electron?		
	(A) 9.1 x 10 <sup>-31</sup> kg	(B) +9.1 x 10 <sup>-19</sup> kg	(C) -7.1 x 109 kg	(D) -16 x 10 <sup>-19</sup> kg
69.	The most electroneg	ative element of per	iodic table is :	
	(A) lodine	(B) Sulphur	(C) Oxygen	(D) Fluorine
		*		

70.	Select from the follow (A) Copper, gold, iron (C) Aluminum, Coppe	1	etals which are found (B) Silver, Gold, Pla (D) Gold, iron, Silve	tinum
71.	Plaster of Paris is:	1	1 1	
	(A) CaSO <sub>4.2</sub> H <sub>2</sub> O	(B) CaSO <sub>4.</sub> 2 H <sub>2</sub> O	(C) CaSO <sub>4</sub> .CaCO <sub>3</sub>	(D) CaSO <sub>4.</sub> 5H <sub>2</sub> O
72.	The atomic orbitals a is called :	re progressively filled	d in order of increasi	ng energy. The principle
	(A) Hund's Rule (B)	Aufbau Principle	(C) Exclusion Princ	iple (D) De – Broglie rule
73.	To which group, an e	lement with atomic n	umber 88 will belong	is to:
	(A) Group 12	(B) Group 17	(C) Group 10	(D) Group 2
74.	The Principal ore of a	aluminum is :	,	
·	(A) Bauxite	(B) Cryolite	(C) Corundum	(D) Feldsper
75.	Haematite is ore of:			
1	(A) Fe	(B) Cu	(C) Al	(D) Ag
76.	Momentum of a truck	at rest is:		
	(A) Zero	(B) Very large	(C) Very small	(D) None of these
77.	Unit of Potential diffe	rence is :		
	(A) Volt	(B) Ohm	(C) Ampere	(D) Faraday
78.	The rate of flow of a	charge through a circ	cuit is called :	
	(A) Potential Differen	ce	(B) Energy	
	(C) Current		(D) Resistance	
79.	An example of body	moving with constant	t speed but still acce	lerating is:
	(A) A body moving wi	ith constant speed in	circular path	4 41
	(B) A body moving w	ith constant speed o	n straight path	21.11
	(C) Both (A) and (B)		(D) None of these	
80.	Rocket works on Prir	ciple of Conservation	on of :	
	(A) Mass	(B) Momentum	(C) Energy	(D) Velocity
81.	The expression for fi	nding the gravitation	force of attraction be	etween any two bodies is
	(A) $F=Gm_1m_2/r^2$		(C) $F=Gm_1m_2/r^3$	(D) F=Gm <sub>1</sub> /r
82	The value of 1 kwh:			
	/	(B) $3.6x\ 10^6$ J	(C) $3.6 \times 10^7 \text{J}$	(D) 3.6X10°J
83.				4
	(A) Transverse in na		(B) Electromagneti	
	(C) Longitudinal in na			ture
84/.	How many orbits are			
	(A) 3	(B) 2	(C) 5	(D) 7
85.	How many groups ar			
	(A) 18, 7	(B) 8, 18	(C) 6, 18	(D) 18, 8

86.	1 Kilo Calorie =			
	(A) 4186 J	(B) 4186 erg	(C) 4186 KJ	(D) None of these
87.	The electronic configu	uration of Cl ion is:		
	(A) 2, 8, 7	(B) 2, 8, 8	(C) 2, 8, 6	(D) 2, 8, 8, 1
88.	Which of the following	g elements will lose e	electron easily:	
	(A) K	(B) Na	(C) Ca	(D) Mg
89.	Acid reacts with base			
0.0	(A) Combination		(C) Neutralisation	(D) Reduction
90.	Sodium is kept immer		because:	
	(A) It react with moist		-f -t-	
	(B) Immersing in kero			
	(C) The reaction of so (D) All of the above	odium with air is very	violent	
91.	Which main part of su	inlight causes heat?		C
01.	(A) Infra red	(B) Visible rays	(C) Ultra violet	(D) all of these
92.	The source of geothe	•	(O) Ollia violet	(D) an or these
1/	(A) Magma	(B) Ocean	(C) Sun	(D) CO,
93.	Bhopal Gas tragedy of			(D) CO <sub>2</sub>
٨.	(A) Methane	occurred due to leak	$A \cup A$	
/			(B) Phosgene	
04	(C) Methyl-isocyanate		(D) Methyl amino	
94.	Which of the following			
	(A) Cholorfluro carbo	ns	(B) N <sub>2</sub>	
/	(C) Carbon dioxide		(D) O <sub>2</sub>	
95.	Full form of CNG:			
	(A) Common Natural		(B) Compressed Na	atural Gas
	(C) Common Nationa	l Gas	(D) Certified Natura	l Gas
96.	Which of the following	g is used for photosy	nthesis?	
$\checkmark$	(A) CO <sub>2</sub>	(B) Water	(C) SO <sub>2</sub>	(D) both (A) and (B)
97.	Normal human body	temperature :		
	(A) 37°C	(B) 98.6°C	(C) 273K	(D) None of these
98.	Which of the following	g is bacterial disease	e?	
	(A) Measles	(B) Small pox	(C) Rabies	(D) Tuberculosis
99.	Ginger is a stem and	not a root because		affilies and a second
	(A) It stores food	No.	(B) It is bitter in tast	te
	(C) It has nodes and	internodes	(D) It is non green i	n colour
100	. The liver secretes :			
0	(A) Bile	(B) Pepsin	(C) Amylase	(D) Lipase

				2.	
	101	The 'Pasteurisation' t	erm belongs to:		
		(A) Preservation by sa	alt	(B) Preservation of	milk
	/	(C) Preservation by s	ugar	(D) None of these	
,	102.	The supersonic jets of	ause pollution by thi	nning of :	2.0
1	· /	(A) CO, layer		(C) O <sub>3</sub> layer	(D) O <sub>2</sub> layer
	103.	Growth harmone is p	-	•	2
-		(A) Bones		(C) Thyroid gland	(D) Adrenal gland
7	104/.	An example of non bi	•		
1	$\checkmark$	(A) Paper	(B) Cow dung	(C) Plastic	(D) None of these
	105.	Right part of human h	neart contains :		AAY
$\geq$	<	(A) Oxygenated blood	d	(B) Mixed blood	
*	1	(C) Deoxygenated blo	ood	(D) No blood	
(	106	In which medium sou	nd travels faster?	. (	1.0
		(A) Solid	(B) Liquid	(C) Gas	(D) None of these
	107	At which temperature	the density of water	r is maximum?	
_	1	(A) 100°C	(B) 0°C ·	(C) 4°C	(D) 273°C
	108.	Which rule is not rela	ted to electricity and	magnetism?	
		(A) Right hand thumb		(B) Right hand Flen	ning Rule
		(C) Left hand Fleming		(D) Octave rule	8
	109.	Magnets do not attrac			
		(A) Ferrous	(B) Cobalt	(C) Nickel	(D) Copper
	110.	A man travels a dista house to back. Then			
		(A) 30 Km	(B) 10 Km	(C) Zero Km	(D) 50 Km
	111.	Formula to calculate	potential energy:		
		(A) ma	(B) ½mv²	(C) mgh	(D) None of these
	112.	A stretched rubber ha			4
	440	(A) Potential Energy		(C) Electric Energy	(D) Heat Energy
	113.	Which of the following		(0) 14 +2	(D) AH3
	111	(A) Na	(B) Na <sup>+</sup>	(C) Mg <sup>+2</sup>	(D) Al <sup>+3</sup>
	114.	The lowest temperature (A) Melting Point	are at which a substa		alled:
		(C) Ignition Temperat	uro	(B) Boiling Point (D) Critical Tempera	aturo
	115	Yellow color of the fla		(D) Chilical Tempera	ature
	110.	(A) Outermost part	(B) Middle Zone	(C) Innermost Zone	(D) None of these
	116	In human each kidne			
		(A) Neutrons	(B) Neurons	(C) Neptune	(D) Nephrons
		(* 1) 1100000110	(D) Noutons	(S) Hoptune	(S) Nopilions

117.	The endocrine organ	present in human fe	emale but not in huma	an male is :
	(A) Testis	(B) Ovary	(C) Pituitary gland	(D) Thymus
118.	World Environment D	ay is celebrated on	:	
	(A) July 1	(B) June 5	(C) June 1	(D) July 5
119.	Chipko Andolan is as	sociated with:	. *	
	(A) Protesting agains	t pasting of posts on	wall	(B) Saving money
	(C) Using more posta	al stamps		(D) Saving forest
120	Amrita Bishnoi lost he	er life while saving fo	rest having	trees.
	(A) Teak	(B) Khejri	(C) Bamboo	(D) Segun
121	. Chlorophyll is found i	n oval shaped struct	ure called :	
	(A) Stomata	(B) Stoma	(C) Chloroplast	(D) Centrioles
122	Which gas is taken by	y plants for respiration	on?	A
M	(A) CO <sub>2</sub>	(B) N <sub>2</sub>	(C) O <sub>2</sub>	(D) None of these
123	Deficiency of iron cau	uses:		
	(A) Night blindness	(B) Goitre	(C) Anemia	(D) Beri-beri
124	. Which vitamin is prep	pared by our body in	sunlight?	
	(A) Vitamin-K	(B) Vitamin-C	(C) Vitamin-D	(D) Vitamin-A
125	. Pholoem tissue is fou	und on :		
	(A) Plants	(B) Insects	(C) Mammals	(D) All of these
126	. Find the remainder w	hen x³-ax²+6x-a is d	ivided by x-a	
	(A) 3a	(B) 4a	(C) 2a	(D) 5a
127	. The points A(2, 4), B	(-2, 3), C(-1, -1) and	D(3, 0) are the vertice	ces of a :
	(A) Rectangle	(B) Square	(C) Triangle	(D) None of these
128	. Find the angle which	is equal to its supple	ement:	
	(A) 45°	(B) 90°	(C) 30°	(D) 120°
129	Let R={(1, 3), (4, 2), (	( <mark>2, 4), (2, 3), (3, 1)} b</mark>	e a relation on the s	et A={1, 2, 3, 4}. The
	(A) a function	(B) reflexive	(C) non symmetric	(D) transitive
130	If $\left(\frac{a}{b}\right)^{x-1} = \left(\frac{b}{a}\right)^{x-3}$ , then	the value of x is:		
	(A) $\frac{1}{2}$	(B) 1	(C) 2	$(D)\frac{7}{2}$
131	. If $a^x=b$ , $b^y=c$ and $c^z=a$	a, then the value of x	ryz is :	1
	(A) 0	(B) 1	(C) $\frac{1}{abc}$	(D) abc

132.	If $x=5+2\sqrt{6}$ , then $\frac{(x-1)}{\sqrt{x}}$	is equal to :		
	(A) √2	(B) <sub>2√2</sub>	(C) √3	(D) <sub>2√3</sub>
133.	The angle of elevation the height of the tree		ne length of the shad	ow of a tree is $\sqrt{3}$ times
	(A) 30°	(B) 45°	(C) 60°	(D) 90°
134.	$\tan \frac{\pi}{2}$ is equal to:			
	(A) 1	(B) 0	(C) not defined	(D) √3
135.	$1+\cot^2\theta=\csc^2\theta$ is a			
	(A) Trigonometric ratio	0	(B) Trigonometric Id	lentity
136	(C) Both (A) and (B) First step in graphing	linear equation is to	(D) none of these	
,100.	(A) Identify and plot of		(B) Connect two po	ints
	(C) Extend straight lin		(D) Substitute value	
137.	Solve simultaneous e	equation: 29-6		
	13x̄-6y=20 ⊬			
	7x+4y=18	<b>(D)</b>		75
120	(A) x=2, y=1		(C) x=6, y=1	
130.	Roots of quadratic ed (A) b²-4ac=0	(B) b <sup>2</sup> -4ac>0	(C) b <sup>2</sup> -4ac<0	(D) b²-4ace"0
139	$\sqrt{2}$ is a polynomial of		(0) 5 400 40	(5) 5 4000 0
100.	V2 10 a polynomiai of	r dogree .		
	(A) 2	(B) 0	(C) 1	(D) $\frac{1}{2}$
140,	The angles of a triang	gle are in the ratio 1	: 2 : 3. The largest a	ngle is :
	(A) 60°	(B) 90°	(C) 120°	(D) 150°
141.	Flat surface in which	two points are joined	by using straight lin	e is classified as :
	(A) line	(B) ray	(C) intersecting line	(D) plane
142.	In this figure AB=BC	and AD=BD=DC. Th	e number of isoscele	es triangles in the figure is
	A			
	D			
	ВС			
	, ,	(B) 2	(C) 3	(D) 4
143.	A rectangular field is		/	
	(A) 200m	(B) 180m	(C) 160m	(D) 140m
144.	How many sides doe	POSTAGE AND	(0) 4	(D) F
	(A) 2	(B) 4	(6)//	(D) 5

145/A	parallelogram	whose a	Il sides	are equal	is called .
149. 7	parallelogram	WIIDSE	III SIUCS	are equal	is called.

- (A) Square
- (B) Rhombus
- (C) Rectangle
- (D) Both (A) & (B)

It is called:

- (A) Roaster method (B) Set builder form (C) Power set
- (D) Symmetric

# 147. Domain of $f(x) = \frac{x}{2+x^2}$ is :

- $(A) R-\{2\}$
- (B)  $R-\{-2\}$
- (D) R

## 148. Two functions f and g are said to be equal iff:

- (i) The domain of f=domain of g
- (ii) f(x)=g(x) for every x belonging to their common domain
- (A) Statement (i) is true

(B) Statement (ii) is true

(C) Both (i) and (ii) are true

(D) none of these

- 149. Write in Roman numeral: 92.
  - (A) XeV
- (B) XCIII
- (C) XCIV
- (D) XCII
- 3, 4} then total number of subsets of A:

- (B) 8
- (C) 12
- (D) 16





- 3. Candidates are not allowed to carry any papers, tes, books, calculators, cellular phones, phones, scanning devices, pagers, log tables etc. the Examinbaiton Hall. Any candidate found using, or in possiession of such unauthorized material or involved in copying or impresonation or adopting unfair means or behaviors will be disqualified and may be subjected to penal action.
- 4. This examination is of objective type. The Question Booklet consists of two secitons: Section I and Section II. Both section are compulsory. Section I contains 50 questions from General English, Educaiton, General Awareness, Reasoning and Teaching Aptitude. Section II constist of 100 questions from English language, Odia language, History and Political Science and Geography.
- 5. There are a total of 150 quesitons and the total time allotted is 2.30 hours. All quesitons and the total time allotted is 2.30 hours. All quesitons are compulsory and carry 1 marks each. Every correct answer will get 1 marks and 0.25 marks will be deducted for every wrong answer.
- 6. The candidates must check that the Question Booklet has 150 quesitons with multiple choice answers. If any discrepancy is found, immediately report to the invigilator, so that Quesiton Booklet may be replaced.
- 7. Each objective question is followed by four answes out of which one is correct. Your task is to choose the correct answer and mark our answer on the OMR Answer Sheet, Not on Question Booklet.

8. Completely darken the CIRCLE so that the alphabet inside the CIRCLE is not visible. Darken only one circle for each answer. The CORRECT and the WRONG method of darkening the CIRCLE on the OMR answer sheet are given in the example below:



- 9. Use blue/black ink ball point pen only for filling the boxes and darkening the circle on OMR Answer Sheet. Do not use pencil.
- 10. Folding/wrinkling or putting any unwanted mark or damaging the OMR Answer sheet is prohibited. The candidate will be responsibile for invalidation of the OMR Answer sheet for doing such deeds.
- 11. Space has been provided at the end of the Question Booklet for rough work.
- 12. The candidates are not allowed to leave the examination hall before the OMR answer sheets are colleced and counted by the invigilator.
- 13. Ganidates are provided with carbonless OMR answer sheet. They must submit the original copy to the invitilator and take away the carbon copy with them.