This Question Paper contains 12 Printed Pages. S.

SI. I	No. 9	03830	<b>N-10(</b> (MARCH, 2		Question	Paper
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	5.	Arrange the celebration da	ys in a proper order and select the cor	rect option
E		(a) 21 March	- (1) World Bio-diversity Day.	reet option
(*		(b) 4 October	- (2 The World Environment Day	J
1		(c) 29 December	- (3) The World Animal Welfare D	
		(d) 5 June	- (4) World Forestry Day.	aj.
10		(A) a-4, b-3, c-2, d-1		
17		(B) $a-3$ , $b-2$ , $c-4$ , $d-1$		
17.	Sam			
18.			is low and irrigation facilities are ina	
			it there is known as	
		(A) Shifting agriculture	(B) Wet -farming	
	ini	(C) Dry farming	(D) Biological farming	
		bush		
	7.	Which matter is necessary	for Plantation Agriculture ?	
		(A) Technical knowledge.		
6	12.36 19.00	(B) Machines, irrigation,	fertilizer.	(6.1 (A)
		(C) Transport facility.		
		(D) All the three above m	entioned matters.	
<u>Only</u>				
18. A	8.	In which district, groundnut	t is grown in maximum quantity in Guj	arat?
8		(A) Jamnagar	(B) Amreli	
(1		(C) Rajkot	(D) Junagadh	
8 (2				
(3	9.	Which region differs on the	basis of crops and regions in the below	
(4		(A) Wheat - Bhal region.		
		(B) Cotton - Golden leaf r	region.	
(5)		(C) Tobacco - Charotar re	gion.	
		(D) Sugarcane - South Gu	ijarat and Saurashtra.	
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-	10.	Whie	ch disadvantage is there due	to eco	onomic liberalization ?
		(A)	There is rise in foreign exch		
		(B)	Industrial production is inc	aver lines	(B) The Indian Art is always by I
		(C)	Our capacity to compete is	streng	thened in the World trade.
		(D)	There is rise in economic in	.07	ils avawis a thA nather sell (U)
				-	
	· 11.		ne planning for growth of eco n a responsibility ?	nomic	e development, which sector is
		(A)	Private sector	(B)	Public sector
		(C)	Joint sector	(D)	Co-operative sector
	-				Mutch the correct option from the
	12.	Whie	ch fuel should be used to con	trol P	
		(A)	Natural gas	(B)	Petrol
		(C)	Diesel	(D)	Kerosene
	13.		which commodity the Govern	ment	
			e prices ?	$(\mathbf{D})$	(P) e-4, 9-3, e-1, d-3
		(A)	Petroleum products	(B)	Vegetables
		(C)	Electricity	(D)	Natural gas
	14.	Whi	ch international organization	corti	fies edible articles ?
	1.1.		FAO (Food & Agriculture C		
		(H) (B)	WHO (World Health Organ	-	
		(D)	ISI (Indian Standards Instit		in .
		(D)	CAC (Codex Alimentarius C		ission)
		(D)			mailing rist man and horm Arr
	15.	In w	which institutions 33% seats	aro re	eserved for women ?
	10.	(A)	All Educational organizatio		eserved for women :
		(A) (B)			
		(D) (C)			
		(C) (D)			
			i done bector mistitutions.		
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1	16.	India is spirituality of	riented country, so	diadvantage is therewas
(		(A) The Indian Art	is always non secu	lar.
T.		(B) The Indian Art	is always based on	religion.
1		(C) The Indian Art	is always dynamic.	
		(D) The Indian Art	is always alive.	un canacity to competerfy bere in rise in Voundmit'h
1'	17.	Where are the remain	s of perfect town p	lanning found in Gujarat
		(A) Mohenjo-Daro	(B)	Harappa
17		(C) Dholaveera	( <b>C</b> ) Public sec	Siddhpur
	18.	Match the correct opt	tion from the below	v given pairs.
18.		(a) Rani Sippri Mos	eque - (1) Pat	an.
		(b) Hira Bhagol	- (2) Sid	dhpur.
		(c) Rudra Mahal		ohoi.
		(d) Ranki Vav		davad
		(A) a-4, b-2, c-3,	d-1 ton mo mom	
		(B) a-4, b-2, c-1,		
3		(C) a-4, b-1, c-3,	<i>d</i> -2	
		(D) <i>a</i> -4, <i>b</i> -3, <i>c</i> -2,	<i>d</i> -1 100 <i>d</i> 100	
Only	19.	In which Article are ( Constitution ?	0 0	s included in the Indian
18.		(A) Fifth		Sixth
ê. (		(C) Eighth		Seventh
E (11-32 (- 34) <sup>34</sup>	20.	A noted Western criti Medical Science says	c Sir William Hun	ter, speaking on Indian
(4		(A) "The Indian me science."		s the whole topic of medie
(£			detail about makir	ng of medicines."
				nstruction about their use
10(E				are covered.
				л. — — — — — — — — — — — — — — — — — — —
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21.	Whi	ch city in Punjab is not the ce	entre	of Woolen Textile Industry ?
	(A)	Amritsar	(B)	Dhariwal
	(C)	Gurgaon	(D)	Ludhiana
22.	Whi	ch industry is irrelevant to th	le cen	tre of production ?
	(A)	Textile Industry - Amdavad.		
	(B)	Fertilizer Industry - Sindri.		17. Hindushi ? (web., dow)
	(C)	Ship building - Vadodara.		mentablish (A)
	(D)	Cement Industry - Chennai	ci)ne	
		and the second states in the second states and stat		
23.	Whi	ch one is not rail-line on the l	basis o	of width of Gauge ?
	(A)	Metro-rail	(B)	Broad-guage
	(C)	Metre-guage	(D)	Narrow-guage
24.		and the second		vided by the total population, then n individual is known as
	(A)	Annual income	(B)	Per capita income
	(C)	Daily income	(D)	Family income
25.		he below given group of cou n agriculture ?	ntries	s, which group has minimum income
	(A)	India, Nepal, Sri Lanka.	(B)	
	(C)	Brazil, Argentina, Chile.	(D)	America, Britain, Japan.
26.		ch one of the following staten de Organization on Indian eco		is wrong in context of effect of World
	(A)			g export of Indian clothes and

(B) India's contribution will rise in the World trade.

(X)

- (C) Efficiency will increase due to new technology.
- (D) Export of agricultural product will decrease.

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- 27. Which is an obstacle for the development of an individual, a society and a country ?
  - (A) Goodwill
- (B) Secularism
- (C) Communalism (D) National integration
- 28. In which other religion, untouchability was observed besides Hinduism?
  - (A) Buddhism (B)
  - (C) Sikhism

(B) Jainism

Christianity

to surned botton from the botton grind faith in

(D)

- 29. Which factor is not suitable in the establishment of National Commission for the Scheduled Castes and Scheduled Tribes ?
  - (A) To supervise the matter regarding their protection.
  - (B) To enquire the complaints regarding their rights.
  - (C) To guide for planning schemes for social and economic development.
  - (D) To report to the P.M.

## 30. What kind of problem is Terrorism?

(A) Local problem(B) Global problem(C) Regional problem(D) National problem

- **31.** What is the inevitable characteristic of a Citizen ?
  - (A) Duty (B) Rights
    - (C) Communalism (D) Re
      - (D) Regionalism

32. What is the main reason for the Child labour ?

- (A) Unemployment (B) Population growth
- (C) Poverty (D) Corruption

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33.	advo	ocate the use of all	opathy along	g witl	ddhist Acharya Nagarjun n herbal medicines ?	
	(A)	Takshashila			Vallabhi	-
	(C)	Vikramshila				
34.	Who	built the largest o	loor Buland	Darv	vaja of the World ?	
	(A)	Babar		(B)	Humayun	
	(C)	Akbar		(D)	Shah Jahan	
35.		ple with a pure he ere this saying is ir		ome	in the garden of paradise."	
	(A)	On the arch of th				
	(B)	On the Humayur	i-tomb.			
	(C)	On the wall of Pe	arl Mosque	(Mot	i masjiu).	
	(D)	On the grave of M	Aumtaz in th	ne Ta	j Mahal.	
36.	Who	was the last rule	of the Vijay	anag	ar empire ?	
	(A)	Ramraya		(B)	Krishnadevraya	
	(C)	Harihar Rai		(D)	Bukkarai	
37.	Whi	ch of the following	pairs is wro	ng?		
	(A)	Pongal - Tamilna				
	(C)	Onam - Kerala		(D)	8	
38.	Whi cave	- 9				
	(A)	The English		(B)	The French	
	(C)	The Portuguese		(D)	The Danish	
39.		which department s any ancient or a			n if any citizen suddenly	
	(A)	The department	of Archeolog	y.		
2	(B)	The deptt. of mu	seums.			
	(C)	The Mines and M	linerals dept	t.		
	(D)	Consumer forum	s.0104120_00			
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**40.** Which one of the following statements is wrong ?

(A) Punjab and Haryana are ahead in field of irrigation.

- (B) Wells and tube-wells are the main sources of irrigation.
- (C) After independence, irrigation area in the country is developed ten times more.
- (D) In Eastern and Southern states, pond irrigation is a major source.

41. Which mineral is not valuable mineral?

- (A) Titanium (B) Platinum
- (C) Silver (D) Gold

42. For manufacturing of which vehicle, Bauxite is used ?

- (A) Railway Engines (B) Aeroplanes
- (C) Cycles (D) Buses

**43.** From the below given options, which one is not a type of Coal ?

- (A) Anthracite (B) Bituminous
- (C) Lignite (D) Haematite

44. Identify me : One statement given below is wrong.

- (A) I am white Coal without smoke Hydro-electricity.
- (B) I am available in the area of Pandhro in the Kachchh region — Mineral oil.
- (C) I am the main source of energy on the Earth Solar energy.
- (D) I am the State getting maximum Solar energy Gujarat.
- **45.** One sector is different from the sectors divided on the basis of Ownership.
  - (A) Private sector (B) Public sector
  - (C) Partnership

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(D) Joint sector

**46.** Which industry does not spread water pollution ?

- (A) Chemical Industry
- (B) Textile Industry
- (C) Paper Industry (D) Electronic Industry

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	(a)	Hemchano Prince of '				A 12200-1		Bhopal.			
	(b)				IIII	Comment -	(2) (3)	Hyderab Mumbai.		1 10 (8)	
	(c) (d)	Salarjung Rashtriya			maha	lovo	(3)	Patan.			
		alweithe ras			31 4114	laya -	C	I atali.		e: 2 Ho	
		a-4, b-3,									
	(B)									ruction	
		a-4, b-3,		u-2							
		a-4, b-1,						medt ern s	question		
48.	Find	out the co	mont	ontion	from	the hele			question		
40.		Meghalaya			(1)	Doy Ra	hti	la quilla di	n No. 18		
		Jharkhand		- 000,001	(2)	Lyngdo					
	1.553.57	Maharasht		-	(3)			n from .oo			
		Kerala		10 Arr	(4)			Jeheras.			
		a-2, b-3,	c-1	d A		CTION	SE				
		<i>a</i> -2, <i>b</i> -3, <i>a</i> -2, <i>b</i> -1,									
		a-2, b-1, a-2, b-4,									
	(0)									10 B B B B B B B B B B B B B B B B B B B	
49.	The	a-2, $b$ -4, rocks on w	c-1, vhich t	<i>d-</i> 3 he soi	ls are	formed	consi		es, clay a	nd sand	
49.	The part ther	a-2, b-4, rocks on w icles. It is l e.	c-1, vhich t known	d-3 he soi as Re	ls are goliti	formed h, in the	consi begir	ist of stone nning of w	es, clay a hich, י	nd sand was/were	
49.	The part ther (A)	a-2, b-4, rocks on w icles. It is l e. only mine	c-1, which t known erals	d-3 he soi as Re	ls are goliti	e formed h, in the (B) a	consi begir air	ist of stone nning of w	es, clay a hich, י	nd sand was/were	
49.	The part ther	a-2, b-4, rocks on w icles. It is l e. only mine organic su	c-1, which t known erals ubstan	d-3 he soi as Re ces	ls are goliti	e formed h, in the (B) a (D) y	consi begin air water	ist of stone nning of w	es, clay a hich, י	nd sand was/were	
<b>49.</b> <b>50.</b>	The part ther (A) (C) Arra	a-2, b-4, rocks on w icles. It is l e. only mine organic su	c-1, which t known erals ubstan	<i>d-</i> 3 he soi as Re ces	ls are golit	e formed h, in the (B) a (D) y	consi begir air water	ist of stone nning of w	es, clay a hich, v	nd sand was/were	
4	The part there (A) (C) Arra perc	a-2, b-4, rocks on w icles. It is l e. only mine organic su ange the dis entage).	c-1, which t known erals ubstan stribut	d-3 he soi as Re ces tion of	ls are golit	e formed h, in the (B) a (D) s sts in des	consi begir air water scend	ist of stone nning of w	es, clay a hich, י	nd sand was/were	
4	The part there (A) (C) Arra perc (A)	a-2, b-4, rocks on w icles. It is l e. only mine organic su ange the dis entage). Andaman	c-1, which t known erals ubstan stribut and N	d-3 the soi as Re ces tion of Vicoba	ls are golit fores r, Hir	e formed h, in the (B) a (D) v sts in des nalaya m	consi begin air water scend	ist of stone nning of w ing form ( ain region	es, clay a hich, v based on s, Gujara	nd sand was/were	
4	The part there (A) (C) Arra perc	a-2, b-4, rocks on w icles. It is l e. only mine organic su ange the dis entage). Andaman	c-1, which t known erals ubstan stribut and N	d-3 the soi as Re ces tion of Vicoba	ls are golit fores r, Hir	e formed h, in the (B) a (D) v sts in des nalaya m	consi begin air water scend	ist of stone nning of w	es, clay a hich, v based on s, Gujara	nd sand was/were	
4	The part there (A) (C) Arra perc (A)	a-2, b-4, rocks on w icles. It is l e. only mine organic su organic su ange the dis entage). Andaman Mountain	c-1, which t known erals ubstan stribut and N region and N	d-3 the soi as Re ces tion of Vicoba n of H	ls are golit fores r, Hir imala	e formed h, in the (B) a (D) v sts in des nalaya m ayas, Har	consi begin air water scend nount	ist of stone nning of w ing form ( ain region , Gujarat,	es, clay a hich, v based on s, Gujara Andama	nd sand was/were at, Harya an and	
4	The part there (A) (C) Arra perc (A) (B)	a-2, b-4, rocks on w icles. It is l e. only mine organic su organic su ange the dis entage). Andaman Mountain Nicobar. Andaman Himalaya	c-1, which t known erals ubstan stribut and N region and N s.	d-3 the soi as Re ces tion of Vicoba n of H Vicoba	ls are golit fores r, Hir imala r, Gu	e formed h, in the (B) a (D) v sts in des nalaya m ayas, Han ayas, Han	consi begir air water scend rount ryana ryana	ist of stone nning of w ing form ( ain region , Gujarat, a, Mounta	es, clay a hich, v based on s, Gujara Andama in regior	nd sand was/were at, Harya at, Harya an and	ana.
50.	The part there (A) (C) Arra perc (A) (B) (C) (D)	a-2, b-4, rocks on w icles. It is l e. only mine organic su organic su ange the dis entage). Andaman Mountain Nicobar. Andaman Himalaya	c-1, which t known erals ubstan stribut and N region and N s. Gujar	d-3 the soi as Re ces tion of Vicoba n of H Vicoba at, Hin	ls are golit fores r, Hir imala r, Gu malay	e formed h, in the (B) a (D) v sts in des nalaya m ayas, Har jarat, Ha	consi begin air water scend scend ryana ryana tain r	ist of stone nning of w ing form ( ain region , Gujarat, a, Mounta	es, clay a hich, y based on s, Gujara Andama in regior daman a	nd sand was/were at, Harya in and i of nd Nicob	ına. ar.
50.	The part there (A) (C) Arra perc (A) (B) (C) (D)	a-2, b-4, rocks on w icles. It is l e. only mine organic su ange the dis entage). Andaman Mountain Nicobar. Andaman Himalaya Haryana,	c-1, which t known erals ubstan stribut and N region and N s. Gujar	d-3 the soi as Re ces tion of Vicoba n of H Vicoba at, Hin	ls are golit fores r, Hir imala r, Gu malay	e formed h, in the (B) a (D) v sts in des nalaya m ayas, Har jarat, Ha	consi begin air water scend scend ryana ryana tain r	ist of stone nning of w ing form ( ain region , Gujarat, a, Mounta	es, clay a hich, y based on s, Gujara Andama in regior daman a	nd sand was/were at, Harya at, Harya a of nd Nicob	ına. ar.
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		PART - B	Salatiung Mitepumu Bushtriya Manav Sa	
<u>Tin</u>	ie : 2 Hours]			
Ins	tructions :-			
(1)	There are <b>four</b> section <b>1</b> to <b>18</b> questions are the	s in this part of the que here.	stion paper and total	
(2)	All the questions are c	compulsory. Internal op	ptions are given.	
(3)	Question No. 18 is Maj	p-filling. Separate questi	ions are given for	
	Blind Students.			
(4)	Start new section from	new page.		
1.		ivers remained reverent		
	Why have the Indian resince ancient time? Write on the drainage s	ivers remained reverent system of Mohenjo-Daro	ial as 'Lokmata' ).	
1.	Why have the Indian risince ancient time ? Write on the drainage s	ivers remained reverent system of Mohenjo-Daro <b>OR</b>	ial as 'Lokmata' ).	
1.	Why have the Indian risince ancient time? Write on the drainage s Write a few lines on th	ivers remained reverent system of Mohenjo-Daro	ial as 'Lokmata' ).	
1. 2.	Why have the Indian risince ancient time ? Write on the drainage s Write a few lines on the What is the contribution	ivers remained reverent system of Mohenjo-Daro <b>OR</b> e Khajuraho temples. on of the citizens in the p	ial as 'Lokmata' ). protection of our herit	
1. 2. 2.	Why have the Indian risince ancient time ? Write on the drainage s Write a few lines on the What is the contribution	ivers remained reverent system of Mohenjo-Daro <b>OR</b> e Khajuraho temples. on of the citizens in the p	ial as 'Lokmata' ). protection of our herit	
<ol> <li>2.</li> <li>3.</li> </ol>	Why have the Indian risince ancient time? Write on the drainage a Write a few lines on the What is the contributio What is Soil erosion?	ivers remained reverent system of Mohenjo-Daro <b>OR</b> e Khajuraho temples. on of the citizens in the p	ial as 'Lokmata' ). protection of our herit	age
<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	Why have the Indian risince ancient time? Write on the drainage a Write a few lines on the What is the contribution What is Soil erosion? Give reasons : There is	ivers remained reverent system of Mohenjo-Daro <b>OR</b> e Khajuraho temples. on of the citizens in the p	ial as 'Lokmata' ). protection of our herit	age e.
<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>5.</li> </ol>	Why have the Indian risince ancient time? Write on the drainage a Write a few lines on the What is the contribution What is Soil erosion? Give reasons : There is	ivers remained reverent system of Mohenjo-Daro OR e Khajuraho temples. on of the citizens in the p	ial as 'Lokmata' ). protection of our herit	age e.

# **SECTION - B**

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Answer the following questions as required : 2 marks each.         6. State the method for rainwater harvesting.       2         7. Write the difference between Anthracite and Bituminous coal.       2         8. Write a short note on Sugar Industry.       2         9. Show the difference between Capitalistic and Socialistic system of economy.       2         10. Write about the Fundamental Rights of the citizen.       2 <b>SECTION - C</b> Answer the following questions as required :         (3 marks each).       3         11. Write on Weaving and Embroidery in ancient India.       3         12. Write on the heritage of Science in ancient India.       3         13. Write on the importance of Forests.       3         14. Write about Black-money, Smuggling and Hoarding.       3         15. Mention various criteria for measuring Human Development.       3         OR       3         15. What steps are taken in Gujarat regarding women empowerment ?       3	6. State the method for rainwater harvesting.       2         7. Write the difference between Anthracite and Bituminous coal.       2         8. Write a short note on Sugar Industry.       2         9. Show the difference between Capitalistic and Socialistic system of economy.       2         10. Write about the Fundamental Rights of the citizen.       2 <b>SECTION - C</b> Answer the following questions as required :         (3 marks each).       1         11. Write on Weaving and Embroidery in ancient India.       2         12. Write on the heritage of Science in ancient India.       2         13. Write on the importance of Forests.       2         14. Write about Black-money, Smuggling and Hoarding.       2         15. Mention various criteria for measuring Human Development.       2         OR			
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12. Write on the heritage of Science in ancient findia.         OR         12. Write a short note on Vastu-shastra.         13. Write on the importance of Forests.         14. Write about Black-money, Smuggling and Hoarding.         15. Mention various criteria for measuring Human Development.         OR	12. Write on the heritage of Science in alcient finda.       0R         12. Write a short note on Vastu-shastra.       13.         13. Write on the importance of Forests.       14.         14. Write about Black-money, Smuggling and Hoarding.       15.         15. Mention various criteria for measuring Human Development.       16.         16. What steps are taken in Gujarat regarding women empowerment ?       17.		A REAL PROPERTY AND A REAL	
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<ul> <li>14. Write about Black-money, Smuggling and Hoarding.</li> <li>15. Mention various criteria for measuring Human Development.</li> <li>OR</li> </ul>	<ul> <li>14. Write about Black-money, Smuggling and Hoarding.</li> <li>15. Mention various criteria for measuring Human Development.</li> <li>OR</li> <li>15. What steps are taken in Gujarat regarding women empowerment ?</li> </ul>	12.	Write a short note on Vastu-shastra.	
15. Mention various criteria for measuring Human Development. OR	<ul> <li>15. Mention various criteria for measuring Human Development.</li> <li>OR</li> <li>15. What steps are taken in Gujarat regarding women empowerment ?</li> </ul>	13.	Write on the importance of Forests.	6.9
15. Mention various criteria for measuring Human Development. OR	<ul> <li>15. Mention various criteria for measuring Human Development.</li> <li>OR</li> <li>15. What steps are taken in Gujarat regarding women empowerment ?</li> </ul>	14.		
15. What steps are taken in Gujarat regarding women empowerment?			Mention various criteria for measuring Human Development.	6.9
	N-10(E)/9	15.	What steps are taken in Gujarat regarding women empowerment?	

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# SECTION - D

	wer the following questions as required : arks each).	
16.	Write in short on Gupta, Buddhist and Gujarati literature in	đ
200	ancient India.	5
17.	Write a short note on World Labour Market. OR	5
17.	Planning of Human labour.	
18.	Mark the following details at proper places by proper symbols in the	
	outline map of India given to you.	5
	(1) One region growing Sugarcane.	
	(2) One area where Copper is found.	
	(3) The Bhakranangal Dam Multipurpose project.	
	(4) One centre of Iron and Steel industry. (Show along with name)	
	(5) Delhi to Mumbai railway route. (Via Amdavad).	
Onl	y for Blind candidates :	
18.		
	(1) Which is the leading sugar growing state in India ?	
	(2) Name any one state producing Copper.	
	(3) Which states do get benefit of irrigation due the Bhakranangal proje	ect?
	(4) Name one centre of Iron and Steel industry.	
	(5) Name two junctions on the rail route between Delhi and Mumbai.	

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NUMBER OF

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1.	Who	invented the s	simple batter	y first?			
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	A						
	(C)	Volta		(D)	Alva Edison		
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	(C) Whi (A) (C) Wha (A)	ch of the follow CO H <sub>2</sub> O at is IUPAC nar Propanal	ving oxide is	not a neu (B) (D) ne ? (B)	tral oxide ? N <sub>2</sub> O SO <sub>2</sub> Propanone		
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3.	<ul> <li>(C)</li> <li>Whi</li> <li>(A)</li> <li>(C)</li> <li>What</li> <li>(A)</li> <li>(C)</li> </ul>	ch of the follow CO H <sub>2</sub> O at is IUPAC nar Propanal Propanol	ving oxide is me of Aceton	not a neu (B) (D) ne ? (B) (D)	tral oxide ? N <sub>2</sub> O SO <sub>2</sub> Propanone Propanoic acid	Theory of Theory of the space of chirdson A Colombia I measury I	
	(C) Whi (A) (C) Wha (A) (C) Wha	ch of the follow CO H <sub>2</sub> O at is IUPAC nar Propanal Propanol at is the diam	ving oxide is me of Aceton	not a neu (B) (D) ne ? (B) (D)	tral oxide ? N <sub>2</sub> O SO <sub>2</sub> Propanone	Theory of Theory of the space of chirdson A Colombia I measury I	
3.	(C) Whi (A) (C) Wha (A) (C) Wha Can	ch of the follow CO H <sub>2</sub> O at is IUPAC nar Propanal Propanol at is the diam cerous cells ?	ving oxide is me of Aceton	not a neu (B) (D) ne ? (B) (D) o-shells v	tral oxide ? N <sub>2</sub> O SO <sub>2</sub> Propanone Propanoic acid	Theory of Theory of the space of chirdson A Colombia I measury I	
3.	<ul> <li>(C)</li> <li>Whi</li> <li>(A)</li> <li>(C)</li> <li>Wha</li> <li>(A)</li> <li>(C)</li> <li>Wha</li> <li>Can</li> <li>(A)</li> </ul>	ch of the follow CO H <sub>2</sub> O at is IUPAC nan Propanal Propanol at is the diam cerous cells ? 400 nm	ving oxide is me of Aceton eter of nan	not a neu (B) (D) ee? (B) (D) o-shells v (B)	tral oxide ? N <sub>2</sub> O SO <sub>2</sub> Propanone Propanoic acid which are attac 200 nm	t thed only t	0
3.	(C) Whi (A) (C) Wha (A) (C) Wha Can	ch of the follow CO H <sub>2</sub> O at is IUPAC nar Propanal Propanol at is the diam cerous cells ?	ving oxide is me of Aceton eter of nan	not a neu (B) (D) ne ? (B) (D) o-shells v	tral oxide ? N <sub>2</sub> O SO <sub>2</sub> Propanone Propanoic acid which are attac 200 nm	thed only t	0
3.	<ul> <li>(C)</li> <li>Whi</li> <li>(A)</li> <li>(C)</li> <li>Wha</li> <li>(A)</li> <li>(C)</li> <li>Wha</li> <li>Can</li> <li>(A)</li> </ul>	ch of the follow CO H <sub>2</sub> O at is IUPAC nar Propanal Propanol at is the diam cerous cells ? 400 nm 100 nm	ving oxide is me of Aceton eter of nan	not a neu (B) (D) ee? (B) (D) o-shells v (B)	tral oxide ? N <sub>2</sub> O SO <sub>2</sub> Propanone Propanoic acid which are attac 200 nm	d shed only t	0

	(A)	Copper	(B)	Lead	00100
	(C)	Manganese	(D)	Mercury	
6.	Wha	at is the chemical formula of	Silver gl	ance ?	
	(A)	AgCl	(B)	$Ag_2S$	
		SiO <sub>2</sub>	(D)	AgNO <sub>3</sub>	ructions ; There are 50 of
7.		ch organic compounds contai			The questions i
a dhe	(A)				
	(C)	Aldehyde			
	1995 19	elast the correct alcomates			Tross the follow
8.	Wha	at is the atomic number of Tr			
	(A)	Z = 92	(B)		
	(C)	Z > 92	(D)	$Z \leq 92$	
				4	
9.	Give	e the name of theory propose	d by Eri	nst Haeckel.	
	(A)	Theory of germplasm		Theory of mut	
	(C)	Theory of recapitulation	(D)	Theory of nati	iral selection
10.		ch space shuttle met with a ch Indian Astronaut Kalpana			ry 2003?
	(A)	Colombia	(B)	Challenger	
	(C)	Discovery	(D)	PSLV	
11.	Whi	ch compound is condensation	n polyme	T :	
	(A)	Nylon	(B)	PVC	
	(C)		(D)	Teflon	

100				[3]	
1	12.	Wha	at will be produced in a	reduction rea	action of Methanal with H <sub>2</sub>
No.		gas i	in the presence of Pd cat	alyst?	A new and include
		(A)	CH <sub>3</sub> OH	(B)	C <sub>2</sub> H <sub>5</sub> OH
		(C)	C <sub>3</sub> H <sub>7</sub> OH	(D)	C <sub>4</sub> H <sub>10</sub> OH
	13.		ch structure is develop rition to foetus ?		wall of Uterus to provide
143		(A)	Amnion	(B)	Fallopian tube
		(C)	Umbilical cord	(D)	Placenta
	14.		s connects which two org ves ?	gans with the	e help of transverse band of
		(A)	Nerves of brain and spi	inal cord.	and the second second second
1 mail		(B)	Both the cerebral hemi	spheres.	
1.		(C)	Cerebellum and Centra	l nervous sy	stem.
		(D)	Sympathetic and Paras	ympathetic.	and the second s
	15.		ch of the following hormolants ?	ones is respo	nsible for shedding of leaves
		(A)	Abscisic acid	(B)	Gibberellin
		(C)	Cytokinin	(D)	Auxin
	16.	Whi	ch metal of the following	g metals is m	ore active ?
		(A)	Mg	(B)	Zn
		(C)	Са	(D)	Al might in and it give
		In w	vhich plant, vegetative p	ropagation b	y leaf takes place ?
103	17.				
	17.	(A)	Sweet potato	(B)	Potato
	17.		Sweet potato Phalsa	(B) (D)	Potato Bryophyllum
	17.	(A) (C)		(D)	Bryophyllum
		(A) (C)	Phalsa	(D)	Bryophyllum

CUANT -

				[4]							
	19.		en current passes through a l is produced ?	conducto	r, in which direction magnetic						
		(A)	(A) In a direction of current.								
		(B)	(B) In the opposite direction of current.								
	in,	(C)	(C) Circular around the conductor.								
		(D)	(D) Perpendicular to the direction of current.								
	20.		Which organism normally shows asexual reproduction by fragmentation ?								
		(A)	Oscillatoria	(B)	Amoeba						
		(C)	Paramoecium	(D)	Penicillium						
			A Martin Martin	an i	Compared and services of the services						
	21.	Whi			support to cells of trachea ?						
		(A)	Prothrombin	(B)	Cellulose						
		(C)	Lignin	(D)	Pectin						
	22.	How	y many Light-year away, the	Sun is loc	ated from the galactic centre ?						
		(A)	250	(B)	30,000						
		(C)	22.5	(D)	15,000						
1 1			And the second second								
	23.	In w	which material, Sulphur is s	oluble ?							
1		(A)	Carbon disulphide	(B)	Bromine						
		(C)	Heavy water	(D)	Distilled water						
11			Ber opingline .	Marine .							
	24.	Give	e the chemical formula of C	alcium sul	lphate hemihydrate.						
		(A)	$\rm CaSO_4{\cdot}2H_2O$	. (B)	$CaSO_4 \cdot \frac{1}{2}H_2O$						
N-1		(C)	$CaSO_4 \cdot 10H_2O$	(D)	$CaSO_4 \cdot H_2O$						
No.	N-1	1(E)/9	)								
	a de la		and a second								
19			A .		1						
					the second s						

.

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and the second

	(A)	Blue and yellow	(B)	Green and yellow
	(C)	Red and magenta	(D)	Blue and magenta
	1-1			his Lawle and Stronduct
26.	Wha	at is the formula for Electric	Power?	
	(A)	$P = I^2 Rt$	(B)	$\mathbf{P} = \frac{\mathbf{W}}{t}$
		$P = VI \times t$	(D)	t = VQ
				Which compared is used for b
27.				ons in the small intestine of
	(A)	Vermiform Appendix	(B)	Villi Tobern Lyncholl, CO
	(C)	Gizzard	(D)	Food vacuole
28.	Who			e for industrial and sewage
	(A)	NEERI	(B)	NACO
	(C)	WHO	(D)	ISRO
29.	Whi	ch metal oxide is used to ob	tain blue	coloured glass ?
	(A)	Ferric oxide	(B)	Chromium oxide
	(C)	Manganese oxide		Cobalt oxide
	1171 .			tting?
30.		ch mineral is necessary for l		
		Calcium multeringent		
	(0)	Phosphorus	(D)	Iron
31.	By v	vhich, hormones are circula		
	(A)	Water	(B)	Nerve
	(C)	Blood	(D)	Cytoplasm

1

[5]

				[0	6]			
32.	Whi	ch catalyst is use	d for the	indus	strial j	production of Hydrogen ?		
	(A)	Iron			(B)	Nickel		
	(C)	Vanadium pento	oxide		(D)	Palladium		
33.	Whi	ch satellite is lau	nched by	India	a for I	Direct to Home (DTH) ?		
	(A)	INSAT-4A			(B)	IRS-1		
	(C)	METSAT			(D)	CARTOSAT		
						$\mathbf{P} = \nabla \mathbf{I} \times I$		
34.	Whi	ch compound is u	used for b	leach	ing cl	oths in laundry ?		
	(A)	Bleaching Powd	er		(B)	Washing Powder		
	(C)	Baking Powder			(D)	Plaster of Paris		
			Fixed ye					
35.	Whi	ch planet has atm	osphere 1	up to	1% of	the atmosphere of the Earth	h?	
	(A)	Mars			(B)	Venus		
	(C)	Jupiter			(D)	Saturn		
36.	Give	e the unit of rate	of reactio					
	(A)	Molar			(B)	Second		
	(C)	Second/Molar			(D)	Molar/Second		
37.	Whi	ch plant shows th	nigmonas	tic re	spons	e ?		
	(A)	Sunflower			(B)	Mimosa		
	(C)	Periwinkle			(D)	Bryophyllum		
38.	Whi	ch chromosome h	nas satelli	ite?				
	(A)	Telocentric			(B)	Metacentric		
	(C)	Acrocentric			(D)	Sub-metacentric		
	( <b>0</b> )							

		10 Drinted Page	es. 5	cience & tech
		TA Durnight I wa		
			[7]	
SI,	145.			<ol> <li>Which organs perform the same</li> </ol>
0	39.	Which scientist gave the law of		
		(A) Goldberg and Waag.	(B)	Lowry and Bronsted.
		(C) Boyle and Arrhenius.	(D)	Lewis and Sorensen.
	40.	Who gave the principle of Elect	romagnet	tic induction ?
		(A) Volta	(B)	Ampere
		(C) Faraday	(D)	Oersted
	41.	Which elements are present in	the alloy	of Solder ?
		(A) Copper and Zinc	(B)	Copper and Tin
		(C) Nickel and Chromium		Lead and Tin
		Instanting on final of Spaced	institution	
	42.	In spectrum obtained with prise	m, which	colour is deviated maximum ?
		(A) Red	( <b>B</b> )	Yellow
		(C) Violet	(D)	Blue
	43.	If 0.3 A current passes through	a lamp,	how many electrons will pass
		in 60 seconds ? ( $e = 1.6 \times 10^{-19}$	)	
		(A) $2.88 \times 10^{20}$	(B)	$1.125  imes 10^{20}$
		(C) $2.25 \times 10^{20}$	(D)	$1.8 imes 10^{20}$
				A) Control alla vecalla
	44.	Which device is used to conv		ric energy into a mechanical
		amoner 2		
		(A) Electric generator	(B)	Solenoid
		(C) Electric motor	(D)	Electric iron
			Y ALL	
	N-11	1(E)/9		EWSELLS-

45.	Whi	ch organs perform the same fu			
	(A)	Homologus organs.			
	(B)	Analogus organs.			
	(C)	Vestigial organs.			
	(D)		gans.		
<b>46.</b>		w much the temperature of Se perature of the body ?	erotun		
	(A)	0° C	(B)	3° C	
	(C)	34° C	(D)	37° C	
47.	of g	s of light are entering from glas lass and glycerine are respectiv ex of glycerine with respect to g	ely 1.5		
	(A)	0.03	(B)	1.02	
×	(C)	2.20	(D)	0.98	
		while (a)			
48.		which place in eye, image sightedness (hypermetropia) ?	is fo	rmed of a person having	
	(A)	On retina	(B)	Behind retina	
	(C)	Infront of retina	(D)	On lens of eye.	
		00 1120 × 10 <sup>10</sup>			
49.	In S	ponges, which structure is used			
	(A)	Contractile vacuole	(B)	Flame cells	
	(C)	Nephridia	(D)	Osculum	
				Which device is used to con-	

50. At which depth, we get necessary temperature for OTEC in oceans ?

- (A) 0 m to 20 m
- (C) 400 m to 600 m

N-11(E)/9

- ÷.
- (B)
  - (D)

- 100 m to 300 m
  - 700 m to 900 m

# N-11 (E) (MARCH, 2012)

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[Maximum Marks: 50

# PART - B

# Time : 2.00 Hours]

#### **Instructions** :-

- (i) There are total **four** sections in this part.
- (ii) All questions are compulsory.
- (iii) Draw neat labelled diagram as per instructions.
- (iv) There are internal options in some questions. Pay attention to them.
- (v) Figures to the right indicate marks.

# **SECTION - A**

Give short answer (in limit of 30 words) of the following questions.

At which temperature range; Petrol, Diesel, Kerosene and lubricating 1. oil is obtained in fractional distillation of Petroleum ? 2 What is Molarity ? Give its unit. 2 2. OR 2. What is slow and fast reaction ? Give example. Why Carbon is important in development of Nano-technology ? 3. 2 Give the definition of Solar constant and its value. 4. 2 OR Write the name of various types of Coal and give the percentage of 4. Carbon in each. Give short information about Mercury. 2 5.

N-11(E)/9

# **SECTION - B**

2

2

2

2

3

3

3

3

N

[10]

Write short answer (in the limit of 30 words) of the following questions.

- 6. Calculate the pH of 0.04 M aqueous solution of NaOH.  $(\log_{10} 4 = 0.6021)$
- 7. Write uses of Baking powder (NaHCO<sub>3</sub>).
- 8. How pure water can be obtained by sewage treatment?
- Write the process of making Ethyl acetate by esterification with equation. 2
   OR
- 9. Write difference between Soap and Detergent.
- 10. Give short information regarding Spinal cord of human.

#### **SECTION - C**

Write answers in short (in the limit of 50 words) of the following questions.

- 11. Explain the work of an Electric Generator with diagram.
- 12. Explain allotropes of Sulphur.

# OR

12. Complete the following chemical reactions :

- $(i) \quad \mathrm{S}_{(s)} + 2\mathrm{H}_2\mathrm{SO}_{4(aq)} \ \rightarrow \label{eq:solution}$
- (ii)  $SO_{2(g)} + 2H_2S_{(g)} \rightarrow$
- $(iii) \hspace{0.1 cm} \mathrm{H_2S_2O_{7(l)} + H_2O_{(l)} \rightarrow}$

13. Describe Erythrocyte (RBC) in short.

14. Explain Sex determination.

N-11(E)/9

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N

#### [11]

15. Explain Electroplating with suitable example.OR

**15.** Explain series connections of Resistors and derive the formula of equivalent resistance.

# SECTION - D

Write the answer of the following questions in detail (in the limit of 100 words).

**16.** Derive lens formula  $\frac{1}{v} - \frac{1}{u} = \frac{1}{f}$ .

17. What is concentration or enrichment of Ore ? Explain the method of enrichment of ore containing Sulphide with diagram.

# OR

17. Explain Bayer's method for obtaining Alumina from Bauxite with equations.

Write short note : Aerobic respiration and Anaerobic respiration.
 OR

18. What is Nutrition? Describe nutrition in Amoeba. (Draw diagram).

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N-11(E)/P

3

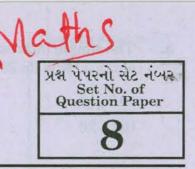
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This Question Paper contains 16 Printed Pages.

Sl. No.

N-12(E) 80352(MARCH, 2012)



# PART - A

# [Maximum Marks : 50

# Time : 75 minutes] Instructions :

- (1) There are **50** objective type questions in this part and **all** are **compulsory**.
- (2) The questions are serially numbered from 1 to 50 and each carries 1 mark.
- (3) You are supplied with separate OMR sheet with the alternatives (A) ○, (B) ○, (C) ○, (D) against each question number. For each question, select the correct alternative and darken the circle as completely with the pen against the alphabet corresponding to that alternative in the given OMR sheet.
- From the following 1 to 50 questions, select the correct alternative from the given four answers and darken the circle with pen against the alphabet, against the number in OMR sheet.
- Each question carries 1 mark.

1.	rectangle can n (A) Complem	entary angles. entary angles. t angles.	rilater	al which is	also a	[Space for Rough	Work]
2.	If $\odot(\mathbf{P}, 4)$ and $\odot$	Q(Q, 2) touch each	other	internally,			
	then $PQ = \dots$				Sec. 1	of the con	
	(A) 1	(B)	5		10-1-1		
	(C) $\sqrt{13}$	(D)	2				
3.	The volume of	a hemisphere havi	ing rad	ius 3 cm is	cm <sup>3</sup> .	Avun quadra	
	(A) 12π		(B)	14π	n il		
	(C) 18π		(D)	21π	1-31		
4.	The formula to	find volume of a C	one is		0-0-		
	1 21			4 2,	1 - 1 -		
	(A) $\frac{1}{3}\pi r^2 h$		(B)	$\frac{4}{3}\pi r^2h$	1		
	(C) $\pi r^2 h$		(D)	$\frac{1}{3}\pi r^3$			
	$(0) \pi r n$		(D)	3			
NT T	2(E)/8		[1]				

5.	The simple interest on Rs. 20,000 for 1 month at the rate	
	of	

[Space for Rough Work]

(5)

Bult-Sub-arthur

(A)	12	(B)	18	
(C)	20	(D)	24	

6. The full amount which is to be paid at the time of purchase is called the .....

- (A) Instalment
- (B) Interest
- (C) Cash price
- (D) Profit

7.  $9 + 19 + 29 + \dots + 99 = \dots$ 

(A)	460	(B)	450	
(C)	540	(D)	455	

- 8. The cash price of a watch is Rs. 525. In an instalment scheme, cash down payment is Rs. 225, followed by a monthly instalment of Rs. 310. The interest earned by the shopkeeper is ......
  - (A) Rs. 300
  - (B) Rs. 10
  - (C) Rs. 20
  - (D) Rs. 30

9. The quadratic equation  $\dots$  has its roots 3 and -2.

- (A)  $x^2 + x + 6 = 0$
- (B)  $x^2 + 5x 6 = 0$
- (C)  $x^2 + x 6 = 0$
- (D)  $x^2 x 6 = 0$

N-12(E)/8

[2]

	similarity. If $m \angle P : m \angle Q : m \angle R = 2 : 3 : 4$ , then $m \angle A : m \angle B : m \angle C = \dots$	18.67 (5)	
		14 40 16	
	(A) 2:3:4	1 no 200 131	
	(B) 3:2:4	US ON LOT	
	(C) 4:3:2		
		n polestanta en la polestanta en la polestanta en la polestanta en	
11.	In the formula of Mean, $\overline{x} = A + \frac{\sum f_i d_i}{n} \times c$ ,	Report Cose ()	
		1	
	then $c = \dots$		
	(A) Deviation	-01	
	(B) Class		
	(C) Class length	ha contribute en	
	(D) Assumed mean		
12.	The sum of frequencies of a frequency distribution is 50 If $\sum f_i x_i = 122$ , the value of mean is	e standy it.	
	(A) 2.44	a nation for the	
	(B) 24.4	a provinsi pr	
	(C) 1.22		
	(D) 12.2	1	
13.	The mean of given data is 50. If each observation is increased by 10 and then divided by 6, is the value o new mean.	Sec. 2	
	(A) 10		
	(B) 60		
	(C) 5.6		
	(D) 50		
N-12	2(E)/8 [3]		

...

- 14. The co-ordinates of the midpoint of the line segment joining the points (12, 10) and (0, 8) are .....
  - (A) (9, 6)
  - (B) (6, 9)
  - (C) (12, 0)
  - (D) (10, 8)

15. A pole stands erect on the ground. A wire tied to the top of the pole is affixed at a point on the ground. If the length of the wire is 7m and the wire makes an angle of measure 30° with the ground, then the height of the pole is .....

- (A) 7 m
- (B) 3.5 m
- (C) 14 m
- (D) 3 m
- 16. As observed from the top of the Light house, the angles of depression of two ships A and B anchored in the sea are found to be 25° and 40° respectively, then from the Light house ......
  - (A) A and B are at equal distance.
  - (B) The distance of B is more than A.
  - (C) The distance of A is more than B.
  - (D) The relation about the distances of A and B can not be determined.

17. If A and B are acute angles and  $\tan A = 1$  and  $\sin B = \frac{1}{\sqrt{2}}$ ,

then  $\cos(A+B) = \dots$ 

- (A) 0
- (B) 1
- (C)  $\sqrt{2}$
- (D)  $\frac{1}{\sqrt{2}}$

N-12(E)/8

[4]

[Space for Rough Work]

	Law 2	sin <sup>4</sup>	$\theta - \cos^4 \theta$				Space for Rough Wo	rk]
	18.		$\frac{\theta - \cos^2 \theta}{\theta - \cos^2 \theta} = .$			- the solution		
6								
		(A)	1					
		(B)	2					
		(C)	3	×				
		(D)	4			·		
						- 7. L I		
	19.	1	$\overline{\frac{1}{2}\theta}$ + 1 =			in it in the		
		(A)	$\csc^2 \theta$			× 168		
		(B)	$\sec^2 \theta$			Jeda		
		$(\mathbf{C})$	$\cot^2 \theta$					
					And a second	Sec. 1. 1.		
		(D)	$\cos^2 \theta$					
	20.	The	surface area o	f a football ha	ving radius 10	) cm is		
		(A)	$400 \pi \text{ cm}^2$			м		
			$52 \pi \text{ cm}^2$			1		
		(C)	$103 \pi \text{ cm}^2$					
		(D)	$414 \ \pi \ cm^2$					
						1.1.1.1.1		
	21.	1 lit	$re = \dots cm^3$					
		(A)	10					
		(B)	1000					
			100					
		(D)	10000					
	N-1	2(E)/	/8		[5]			
			8				X	

0

4 1

...

[Space for Rough Work]  $(2x-2)^2$ 22. = m, then  $m = \dots$  $(1-x)^2$ (A) – 2 (B) 2 (C) - 4 (D) 4 **23.** (0, 0), (3.1, 0) and (0, 4.5) are the vertices of a ..... triangle. (A) Equilateral (B) Right angled (C) Isosceles (D) Acute angled **24.** (-3, -2) is in ..... quadrant. (A) first (B) second (C) third (D) fourth **25.** Tangents  $\overline{PA}$  and  $\overline{PB}$  are drawn from P to O(O, 5)and PA = 5, then  $PB = \dots$ (A) 4 (B)  $\sqrt{10}$ (C) 5 (D) 10

N-12(E)/8

[6]

26. The solution set of 2x + 3y + 5 = 0 and 4x + 6y + 10 = 0 [Space for Rough Work]

....

22

is ...... (A) {(2, 3)}

- (B) Empty set
- (C) infinite
- (D)  $\{(3, 5)\}$

27.

0

N

If x + 4 is one factor of polynomial  $x^2 + 7x + m$ ,

- then *m* = ...... (A) 3 (B) 12
- (C) 4
- (D) 7

28.

- How is the equation 5y = -2x + 3 written in standard form?
- (A) 2x + 5y + 3 = 0
- (B) 2x + 5y 3 = 0
- (C) 2x 5y = 3
- (D) 2x 5y 3 = 0

29. In a two digit number, if the digit at its unit's place is (2x - 1) and the digit at its ten's place is (2x+1), then the number is .....

- (A) 22x + 9
- (B) 19 + 22x
- (C) 22x 9
- (D) 9x 22

N-12(E)/8

[7]

**30.**  $\Sigma(x_i - \overline{x}) = \cdots$ 

(A) 10

- (B)  $\overline{x}$
- (C)  $\sum x_i$
- (D) 0

31.

• At the end of the year if more tax is paid from the income of a person, then he gets the money back in the form of .....

[Space for Rough Work

- (A) T.D.S.
- (B) Surcharge
- (C) Refund
- (D) Education Tax
- **32.** The investment in ..... is not exempted from income under section 80C.
  - (A) PF
  - (B) GPF
  - (C) Mediclaim
  - (D) LIC

**33.** Every taxpayer has to pay ......% of income tax as education cess.

- (A) 2
- (B) 10
- (C) 20
- (D) 30

N-12(E)/8

[8]

**34.** If  $\triangle XYZ \sim \triangle FDE$ , then sides  $\overline{XY}$ ,  $\overline{DF}$ ,  $\overline{XZ}$  and ...... are in proportion.

[Space for Rough Work]

and the state

(A)  $\overline{DE}$ 

IN

0

- (B)  $\overline{\rm EF}$
- (C)  $\overline{\rm DF}$
- (D)  $\overline{YZ}$

**35.** For  $\triangle DEF$  and  $\triangle PQR$ , if  $m \angle D = m \angle R$  and ....., then the triangles are similar.

(A)	$\frac{\mathrm{DE}}{\mathrm{PQ}} = \frac{\mathrm{EF}}{\mathrm{QR}}$	(B)	$\frac{\mathrm{DE}}{\mathrm{PQ}} = \frac{\mathrm{DF}}{\mathrm{PR}}$
(C)	$\frac{\mathrm{DE}}{\mathrm{QR}} = \frac{\mathrm{EF}}{\mathrm{RP}}$	(D)	$\frac{\mathrm{DE}}{\mathrm{PR}} = \frac{\mathrm{DF}}{\mathrm{RQ}}$

**36.** If for  $\triangle XYZ$  and  $\triangle MNO$ ,  $\frac{XY}{MN} = \frac{XZ}{NO} = \frac{YZ}{MO}$ ,

then ..... is similarity.

- (A)  $XYZ \leftrightarrow MNO$
- (B)  $XYZ \leftrightarrow NMO$
- $(C) \quad XYZ \leftrightarrow OMN$
- $(D) \quad XYZ \leftrightarrow MON$

37. Lengths of diagonals of a Rhombus are 10 and 24. Lengths of its sides are ......

- (A) 26
- (B) 13
- (C) 52
- (D) 34

C

N-12(E)/8

[9]

**38.** The reduced form of 
$$\frac{x^3}{x-2} + \frac{8}{2-x}$$
 is .....  
(A)  $x^2 + 2x + 4$  (B)  $x^2 - 2x + 4$   
(C)  $x - 2$  (D)  $2 - x$ 

**39.** The H.C.F. of  $p(x) = x^2 - 1$ ,  $q(x) = x^2 + x$  and  $r(x) = (x + 1)^2$  is ...... (A)  $(x + 1) (x^2 - x)$  (B)  $(x + 1)^2$ (C) (x + 1) (D)  $(x^2 - x) (x^2 + x)$ 

**40.** In the following, ..... is not a polynomial in x.

(A)	$4x^2 + \sqrt{7}$	(B)	$3x^2 - x - 1$
(C)	$3x^2 - 5\sqrt{x} + 2$	(D)	3x - 1

**41.** The L.C.M. of  $(2x^2)^2$ ,  $12x^3 \div 4x^2$  and  $\sqrt{2x^2 \times 8x^4}$  is ...... (A)  $4x^4$  (B) 3x

(C)  $4x^2$  (D)  $12x^4$ 

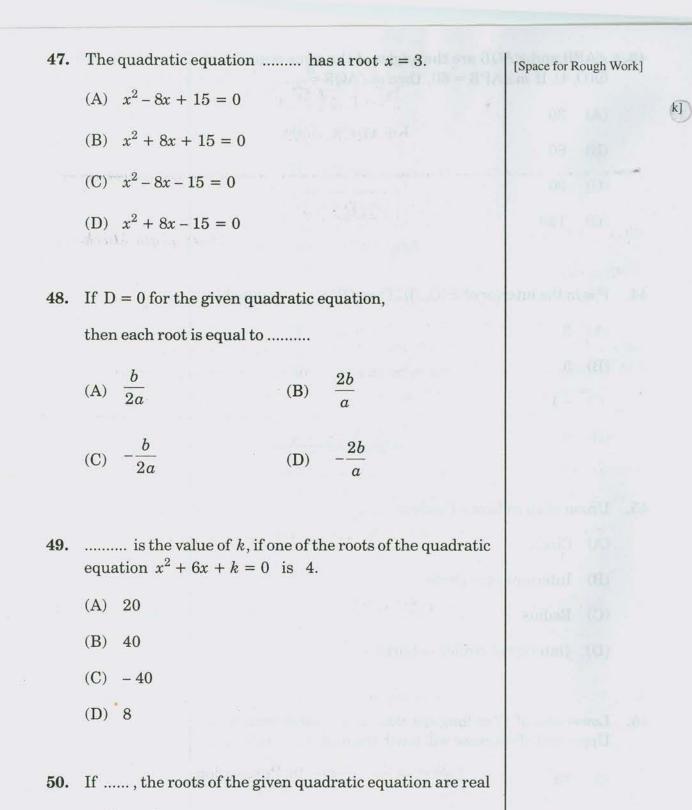
42.  $\frac{x^3 - 1}{p(x)} = \frac{x^2 + x + 1}{x - 1}$ , then  $p(x) = \dots$ (A) 1 (B)  $x^2 - 1$ (C) x + 1 (D)  $(x - 1)^2$ 

N-12(E)/8

[10]

[Space for Rough W

	(D)	144						1	
	(C)	15							
	(B)	18							
	(A)	12	l inte			-	gui d'a		
46.			17 m long staircase w						
						đ		. 01	
	(D)	{interior	r of circle}	$\cup$ {circle	e}				
	(C)	Radius					100	80.12	
	(B)	Interior	of the circ	le					
	(A)	Circle					A Tareb		
45.	Uni	on of all ra	adii of a Ci	rcle is			-		
							1		
	(D)	2							
	(C)	- 1							
	(B)	5							
	(A)	3					ining i		
44.	P is	in the inte	erior of ⊙(	O, 3). Th	en OP =	is po	ossible.		
	(D)	120					0.633		
	(C)	90					0-3		
	(B)	60					0 - 4	My	
	(A)	30			A del		0		



and equal.

(A)	$\mathbf{D} = 0$	(B)	D = 1	
(C)	D > 0	(D)	D < 0	

N-12(E)/8

[12]

# N-12(E)

(MARCH, 2012)

PART - B

[Maximum Marks : 50

(8)

Time : 2 Hours]

# Instructions :-

- There are four sections in this part of the question paper and total
   1 to 17 questions are there.
- (2) All the questions are compulsory. Internal options are given.
- (3) Draw figures wherever required. Retain all the lines of construction.
- (4) The numbers at right side represent the marks of the question.

# SECTION - A

Answer the following questions from 1 to 8 in short. Each question carries 2 marks. 1. Find the solution set of the following pair of linear equations. 2 x + 4y = 3; 3x = 2y + 22. Find H.C.F. of the given polynomials 2  $p(x) = x^4 - 4x^3 + 4x^2$  $q(x) = x^3 - 4x$ Find the L.C.M. of the polynomials 3.  $3x^2 + 5x - 2$  and  $3x^2 - 7x + 2$ 2 4. How many terms are there in the Arithmetic Progression 2 14, 21, 28, ....., 98? OR 4. Find  $T_{15} - T_{10}$  for the Arithmetic Progression  $35\frac{1}{2}, 45\frac{1}{2}, 55\frac{1}{2}, \dots$ [13] N-12(E)/8

IN

- 5. In  $\triangle ABC$ ,  $m \angle B = 90$ . BM is an altitude. BM = x + 2, AM = x + 7 and 2 CM = x. Find x.
- ∠APB is an angle inscribed in a semi-circle. AP = 9 and PB = 40.
   Find the radius of the circle.
- **7.** Prove that :

 $(\sec \theta + \cos \theta) (\sec \theta - \cos \theta) = \tan^2 \theta + \sin^2 \theta.$ OR

7. Prove that :

 $\frac{\tan 38^{\circ}}{\cot 52^{\circ}} + \frac{\csc 20^{\circ}}{\sec 70^{\circ}} = 2 \ .$ 

8. The distance between the points (3, a) and (4, 1) is  $\sqrt{10}$ . Find the possible values of a.

## **SECTION - B**

Answer the following questions from No. 9 to 12 with calculations. (Each question is of 3 marks).

9. Simplify :

$$\left(\frac{x}{x-4} - \frac{4}{x+4}\right) \div \frac{x^3 - 64}{x^2 + 4x + 16} \times \frac{(x-4)^2}{x^2 + 16}$$
**OR**

9. Obtain the reduced form

 $\frac{x^2 - 3x + 2}{x^3 - 8} \div \frac{x^2 - 9}{x^2 + 7x + 12} \times \frac{x^3 + 2x^2 + 4x}{x^2 + 3x - 4}$ 

5

N

4

- 10. The denominator of a non-zero ratio is 1 less than twice the numerator. 3 If the sum of the ratio and its reciprocal is  $2\frac{4}{15}$ , find the ratio.
- 11. The cost of a Mixture-grinder is Rs. 1000. In an instalment scheme, cash down payment is Rs. 250, followed by four monthly instalments of Rs. 200 each. Find the rate of interest in instalment scheme.

N-12(E)/8

# [14]

3

3

2

 $\mathbf{2}$ 

12. The distance between two poles of equal height is 200 m. From a point situated on the line-segment joining their bases, the angles of elevation of their tops are found to be 60 and 30. Find the height of the pole.

## SECTION - C

Answer the following questions from No. 13 to 15, as directed with the calculations. (Each question is of 4 marks).

 The mean of the following frequency distribution is 27. Find the missing frequency.

x <sub>i</sub>	5	15	25	35	45
$f_i$	20	10	f	30	20

- OR
- 13. Marks obtained by 140 students are given in the following distribution. Find the mean by the method of assumed mean.

Class	0-10	10-20	20-30	30-40	40-50
Frequency	20	24	40	36	20

- 14. A solid is composed of a cylinder with hemispherical both ends. If the total 4 height of the solid is 78 cm and radius of the cylinder is 12 cm, find the capacity of gas filled in it.
- Prove that "Opposite angles of a Cyclic quadrilateral are supplementary 4 angles".

#### SECTION -D

Answer the following questions from No. 16 to 17. (Each question carries 5 marks).

**16.** Prove that "If for  $\triangle ABC$ ,  $BC^2 = AB^2 + AC^2$ , then  $\angle A$  is right angle".

OR

- **16.** Prove that "Areas of two similar triangles are proportional to squares of corresponding sides."
- 17. Draw  $\triangle ABC$  such that AB = 7 cm, BC = 8 cm and CA = 5.5 cm. Draw its circumcircle and write the steps of construction.

N-12(E)/8

R

# [15]

3

4

5