कुल मुद्रित पृष्ठ संख्या /Total No. of printed pages: 10



परमाणु ऊर्जा शिक्षण संस्था Atomic Energy Education Society आवधिक परीक्षा / Periodic Test II (2024-25)

कक्षा/ Class :X

अवधि/Duration :3 घंटे/Hours

विषय/Subject :English

अधिकतम अंक/Maximum Marks :80

सामान्य निर्देश / General Instructions:

Details and instructions:

- 1. 15-minute prior reading time allotted for Q-paper reading.
- 2. The Question Paper contains FOUR sections-READING SKILLS, WRITING SKILLS, GRAMMAR and LITERATURE TEXTBOOK.
- 3. Attempt questions based on specific instructions for each part.

SECTION A: READING SKILLS (22 Marks)

I. Read the following passage

- A. Can you imagine a college without walls, professors or classrooms? Educator Bunker Roy can. More than 40 years ago, Roy, now 79, founded the Barefoot College in Tilonia, Rajasthan. His school admits rural women, often grandmothers and teaches them the basics of solar engineering and freshwater technology. His efforts have yielded enormous benefits. When the women return to their homes, they are trained enough to provide their communities, some of the world's most lonely places, with electricity and clean water. They also gain something important: a newfound self-confidence.
- B. The Barefoot model has already been used to empower women throughout Asia, Africa, and Latin America. Former President, Bill Clinton presented Roy with a Clinton Global Citizen Award, which honours leaders who are solving the world's problems in effective ways. If you go all over the world, to very remote villages, you will often find only very old people and very young people. The men have already left. So two ideas were put into practice in order to make the Barefoot Model work.

- C. First it was declared that men are untrainable, restless, always ready to move, ambitious, and they all want a certificate to show for their efforts. And the moment you give one of them a certificate, he leaves the village looking for a job in the city. That is how, the simple, practical solution of training grandmothers came up. They are sympathetic, tolerant, willing to learn, and patient. All the qualities you need are there. And the second idea was not to give out certificates. Because the moment a certificate is given, a woman, like a man, will see it as a passport for leaving rural areas and going to urban areas to find a job.
- D. Barefoot College follows the lifestyle of Mahatma Gandhi: Students eat, sleep, and work on the floor. They can work for 20 years or they can go home the next day. As of today, 604 women solar engineers from 1083 villages in 63 countries have been trained. The engineers have given solar power to 45,000 houses. These were done by women who had never left their homes before. They hate the idea of leaving their families and getting on a plane. When they reach India, sometimes after 19 hours of travel, they are faced with strange food, strange people, and a strange language. All the training is done in sign language.
- E. Yet in six months, they will know more about solar engineering than most university graduates. Some women face problems at home for attending college. Most of the husbands do not like their wives going to these colleges and tell them not to come back if they do so. But, on her return when she is able to help provide her village with solar electricity, her husband wants her to get back home. The respect she now has is enormous and she considers herself no less than solar engineers. Bunker Roy dreams of providing the world's 47 least-developed countries with Barefoot College-trained grandmothers and also to solar-electrify more than 1,00,000 houses.

Answer the following questions, based on the passage above.

- i. Why did the promoter of Barefoot Model decide to train grandmothers? (1)
 - (a) Men do not want to be trained.
 - (b) Grandmothers were patient, willing to learn and tolerant.
 - (c) Men are lazy, want to make money.
 - (d) Men and women are not skilled.
- ii. How is Barefoot College different from other colleges? Whom do they admit in the college?
- iii. What did the women gain from the college apart from technology? (1)

:4.

iv.		
• • •	what are the difficulties the women have to fee	
	What are the difficulties the women have to face during their travel and their	je.
V.	Find a word from the passage which means the same as the following:	G
	(i) many/great in size (para A)	
vi.	Find a word from the passage which is an antonym of 'enalave/subjugate' (para	(
	B) B)	
vii.	The original and a second of the control of the con	
	The attitude of the husbands to their wives on their return from training is	
	different because	(
	(i) of the respect they gain from the villagers	
	(ii) they were away for a long time	
	(iii) they will again be looked after	
	(iv) they will not go back	
viii.	What is the parreter's	
ix.	What is the narrator's dream about solar electrification?	,
X.	do the women consider themselves professions	(
	COLLEGE HINNAL ATTACK	(
	Salvaring and Hennwater tool - 1	()
	The man with the state of the s	ř
	Reasoning: The Barefoot College trains grandmothers instead of younger men because grandmothers are more likely	
	because grandmothers are more likely	
	because grandmothers are more likely to remain in their villages and use their skills locally, avoiding the community of the	
	skills locally, avoiding the common problem of trained men leaving for city jobs.	
	172	
	Choose the correct option:	
	A. Both Assertion and Reasoning are true, and the Reasoning is the	
	correct explanation for the Assertion.	
The second	B. Both Assertion and Reasoning are true, but the Reasoning is not the	
	correct explanation for the Assertion.	
	C. The Assertion is true, but the Reasoning is false.	

D. The Assertion is false, but the Reasoning is true. 2. Read the following passage and answer the questions that follow.

A. Reduction in green areas has caused various environmental problems. People squeezed between concrete structures are looking for various ways to meet their longing for green. One of the ways to do so is through vertical gardens and green walls. Vertical gardening is a unique method of gardening where plants are grown in a vertical position or upward,

- rather than in the traditional method of planting them on the ground. B. The purpose of vertical gardens and green walls, which arises from the studies of different disciplines (landscape architects, architects, engineers, etc.), is to close the cold image of concrete and increase its visual value. In these systems, nature and structures are integrated, and thus, urban areas and the desired environment have become intertwined.
- C. Vertical garden case studies often show that, though functionality should be in the foreground, when vertical gardens are planned, they are generally made as aesthetic elements in the city's underpasses and city squares, and decorative elements in residences,
- D. Experts support that the visual quality and evaluation of landscape architecture is determined based on the satisfaction of the users. Hence, a survey questionnaire was prepared for residents of varied age groups from of a metropolitan city. The given Table 1, displays these responses:

Table 1- Total number of participants :400

No.	Survey Statements	Strongly	Agree	Neutral	Disagree	Strongly
		agree	7.54 B	, gi + ,,m	sie gra. T	Disagree
1	Improve quality of life of	191	138	43	9	19
	people in urban areas	numarr m	gradi s		gmoden.	gan, T
2	Reduce noise pollution	128	164	.77. di gal	25	6
3	Increase air quality	172	147	51	28	2
	indoors and outdoors			rendejo.	mangan rel	Marie 1
4	Reduce energy and water	58	47	125	68	2
	consumption	agraition o		n thyda	i toamo	
5	Positively impact global	114	144	106	30	6
	warming	r do e direct	.5-3	Megay	នគត់ ហេ	
	Have a calming and	161	177	44	7. (5)	11
	relaxing effect	was dies			rod vo	
-	Cost too much	86	107	152	42	13
2000年	Make plants look	195	139	44	6	16
e medit.	beautiful	air ing o		i u kon	ži ' "e	
) in i	Add naturals to the	135	173	55	25	12
gravit d	environs	or the fire	715	V. geran da	6,0 18 _ 11 _ 11	

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10	Determining factor to	59	133	141	54	13
	visit a place			416	A STATE OF THE PARTY.	
11	Are inconvenient indoors	9	84	123	126	48
12	Can be applied in any place	71	132	97	77	23
13	Have a functional feature	81	207	100	10	2
14	Distract drivers	34	101	106	131	28
15	Funds are best used for	57	72	100	130	41
	social issues	onir an	error (+ Ta Dij	Walte C	30 a.u 182 li	11/

Answer the following questions, based on the table above.

i. Complete the following analogy appropriately, based on your understanding of paragraphs 1 &2.

We can say that the situation of people living in concrete structures is

We can say that the situation of people living in concrete structures is comparable with a fish living in a fishbowl, and the need for vertical gardens to the need for decorations in the fishbowl because_____.

ii. Justify the following, in about 40 words.

While the survey results suggest that vertical gardens may be effective in improving the quality of life in urban areas, further research and evaluation may be necessary to fully understand their effectiveness and potential drawbacks.

iii. Select the option that correctly displays what 'intertwined' signifies. (reference – (1)

		1		
(i)	(ii)	(iii)	(iv)	(v)

- 1. (i), (iv) and (v)
- 2. Only (ii)
- 3. Only (iii)
- 4. (ii) and (v)
- iv. Fill in the blanks with the appropriate option from those given in brackets, based (2) on your understanding of para 2.

	tement that urban spaces have become more closely connected with the natural surroundings through the incorporation of nature and structumes of the contraction of th
in verti	cal gardens and green walls is a(fact/opinion) because it is
	(subjective judgement/ objective detail).
Which	of the following is the main takeaway from the study mentioned in the
passage	?
Α,	Vertical gardening has minimal impact on the environment or human $_{\mathbf{W}}$
B.	Vertical gardening is a sustainable practice that can transform urban spaces into green areas.
C. '	The impact of vertical
1	The impact of vertical gardening on the environment and human well being has already been thoroughly explored.
r ne stud	ly needs to include
recomm	Ly needs to include experts from horticultural firms to offer any
-ased of	the survey
Info-	the survey results, which concern should a city government, looking to strical gardens, address? (any one concern)
-	OCHEUL on T
The ant-	benefit and one drawback of vertical gardening in comparison to other such as community gardens or parks. (40 words)
anto	of the word 'agrarian or minute:
TT.	SECTION B: WRITING SKILLS (22 Marks)
Write an	e-mail to the principal of
requesti	e-mail to the principal of your school, seeking permission and g for Resources and Support for 10th Grade Farewell Celebration.
Fra	Profit for 10th Grade Farewell Celebration.
From:	
To:	
To:	dpsoffice@school.com
To: Cc: Date:	dpsoffice@school.com Sept 13, 2024, 07:03 PM
To: Cc: Date:	dpsoffice@school.com Sept 13, 2024, 07:03 PM
To: Cc: Date:	dpsoffice@school.com Sept 13, 2024, 07:03 PM
To: Cc: Date:	dpsoffice@school.com Sept 13, 2024, 07:03 PM
To: Cc: Date: Subject:	dpsoffice@school.com Sept 13, 2024, 07:03 PM
To: Cc: Date:	dpsoffice@school.com Sept 13, 2024, 07:03 PM

4. Write a brief description of your best friend in minimum 100 words using the following hints.

Daniel Samson - belongs to a noble family - father Professor - mother - Principal - well behaved - respectful - ready to help -intelligent - an orator - trustworthy - popular - among class fellows - feel pride - associated with him.

You are the Librarian at Devi charitable school, Lucknow. Place an order of (7)

5a. school books and other story books for the school library with Chitrakoot book shop, Mall road, Lucknow. (word limit -120 words).

OR

5b. You are Rajat, Rani, a student of Class XII and wants to pursue a course in Mass Communication. Write a letter in 120-150 words to the Dean, Institute of Mass Communication, University of Delhi, seeking information about the course admission procedure, eligibility criteria, fee structure, hostel facilities, placement opportunities, etc.

6a. High-tech devices in modern society has revolutionized communication and productivity. However, the potential negative effects, such as health concerns and environmental impacts are alarming.
Using your own ideas and those taken from the unit "Science", write an article in 180 words, describing both the benefits and harms of using these high-tech devices. Conclude with suggestions on how to mitigate these harms and promote the responsible use of technology.

OR

6b. On the occasion of World Health Day, write an article in about 150 words for the school news-letter on the topic, 'Importance of Physical Health in Our Lives', using the clues given below.

Hints:

- Healthy mind lives in a healthy body.
- Lack of time for physical activity because of the demands of modem lives.
- Ignoring the health increases the risk of many diseases.
- Discipline is the key to resolving these concerns.

SECTION C: GRAMMAR (10 Marks)

7.	Con	plete the tasks A-C, as directed.		a sa ta tha br	ackets.	(3)	
A.	Fill t	the blanks (i) -(iii) with the appropriate op	tion from	those in the or	lan dom	• •	
Two	friend	s were walking (a) (through)	from / by) a desert. Dur	ing bonn	s point of	
the j	oumey	y they had an argument, one friend slap	ped the	(b)(anomer	, outer ,	
neith	er) o	ne on the face. The one who got slappe	d (c)	(were / is	/ was)	hurt, but	
		ring any thing wrote in the sand.	Talk or	.,		171	
B.	In the	e following passage one word has been	omitted	in each line .	Write the	e (4)	
	missii	ng word, in any four sentences of the give	n paragra	ph, along with	the word	i	
	that co	omes before and the word that comes after	r it in the	space provided	平 76	167 67.	
	No.	Text	Before	Missing word	After	. J	
	(i) 1	Himachal Pradesh a good place for Eco Camp.	iti.lo v	naturalist of oak	JAJOR	V. fr. j	
	(ii)	Pine Hill Eco Camp is one of ecotourism	and diffe	finales prostate inte	nolasii	da	
	(11)	resorts		, , 27 , 82	Market	. j	
	(iii)	near Barog Himachal Pradesh. Ecotourism is	Jan cust	เพราะกล่า สุดภัณฑ์เ	Assert	E SA .	
	(iv)	gaining popularity each passing day as more	ผูปสรากก	od sevewall t	ni samurah		
	(v)	and more people want to get away from the	fationsie		8946 UN 230		
C.	Dogs	hectic schedules. directed.	MATTER 121	or ranging in	Parkaci Series		
				at 1 things		(3)	
(i)	Reari	range the following jumbled words/ph	rases in	the given dial	ogue to	(1)	
		e a meaningful sentence.	Vanlete	ala din seria da di din seria.	2 33313	All Inc.	
	factor.	use of renewable energy sources can s	ignifican	tly reduce our	carbon	911.	
	10010	rint. I agree. What are some examples o	f renewa	ble energy sour	ces?"		
		AR ENERGY / WIND ENERGY			VER /		
(**)		MPLES / ARE / OF / RENEWABLE EN					
(ii)		rt the following dialogue to complete the		-		(1+1)	
		ger: "We need to discuss the new project r		nts in detail."	3 m. C. F. C. B.		
		oyee: "When should we schedule this mee	71 16 - 17				
		ger: "We can meet tomorrow afternoon."				•	
		lete the paragraph by reporting the dialog					
	The n	nanager stated that they (a) T	he emplo	yee inquired who	en they		
	should	d schedule that meeting. The manager repl	ied that (l	o)t	he .		
	follow	ving afternoon.			M .		
	TOTTO						

SECTION D: LITERATURE TEXTBOOK (26 Marks)

	Read the given excerpts and answer the questions briefly, for ANY TWO	(4+4)
8.	excerpts, of the three, given.	
A.	Neither stones nor prayers nor sticks,	
A.	Insults or complaints or bricks	
	Stilled the frog's determination	
	To display his heart's elation. (The Frog and the Nightingale)	
		(1)
•	At whom the stones were thrown?	(1)
i. 	The frog is determined to	(1)
ii. 	Which figure of speech is used in Line 1?	(1)
iji.	What is the rhyme scheme of the above extract?	(-)
iv.		
	ninching it before Aunt Elizabe	th
В.	VICTORIA: (after a moment's thought.): Are we pinching it before Aunt Elizabe	2.14
	comes? HENRY: (shocked) No, my child. Grandpa gave it to your mother before he died.	<i>l</i> . , , , ,
	HENRY: (shocked) No, my child. Grandpa gave it to year	
	VICTORIA: This morning?	
	HENRY: Yes.	(1)
i.	What does 'it' refer to here?	(1)
ii.	What does 'it' refer to here? How does Vicky get to the conclusion that her parents are 'pinching it'? What does it say about the disparity between Vicky's attitude and that of the	(1)
iii.	What does it say about the disparity between	
	elders?	(1)
iv.	The phrase 'pinching in' here means The two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who propped up to the two boys were seated at the bedside of a girl of about 20, who are the be	n
C.	The two boys were seated at the bedside of a girl of a control of their chatter, her eyes soft a pillows wearing a pretty lace jacket, was listening to their chatter, her eyes soft a	and
	tender.	(1)
i.	Who are the two boys referred to here?	(1)
ii.	Where are the boys at present?	(1)
iii.	Who is the girl?	(1)
iv.	Why was she propped up on the pillows?	

	Answer ANY FIVE of the following six questions in about 30-40 words		
9.			
1	each the pedestal reflect about	(2)	
i.	Who was Ozymandias? What do the words written on the pedestal reflect about		
	Ozymandias?	(2)	
ü.	What does the writer wish to convey via the use of the metaphor for a false	9.	
	friend in the given line from The Letter?		
	the cold used sleep to extend its sway over all things even as a false friend		
	lulls his chosen victim with caressing smiles.	(4)	
iii.	What does Mrs Jordan describe as a fatal mistake? What is the irony in the	(2)	
	comment she makes on Mrs Slater's defence?		
iv.	Why did Mrs. Packletide decide to give a party in honour of Loona Bimberton (2)	
	? What did she plan to present Loona on her birthday?		
v.	How will the poet's friend and patron find a permanent place in the hearts of	2)	
	coming generations and lovers? (Not Marble Nor the Gilded Monuments)		
vi.	Whom did the mariners blame for such an omen condition? How did they punish him?	2)	
10.	Answer ANY ONE of the following two questions in about 150 words.	8)	
A.	In both "The Dear Departed" by Stanley Houghton and Vikram Seth's poem "T	he	
	Frog and the Nightingale," the themes of manipulation and exploitation are central	al.	
	Compare and contrast how manipulation is depicted in both works.		
	OR TO A CONTROL OF THE PROPERTY OF THE PROPERT		
В.	"Only the wearer knows where the shoe pinches". Elucidate the statement with		

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परमाणु ऊर्जा शिक्षण संस्था Atomic Energy Education Society आवधिक परीक्षा / Periodic Test-II (2024 – 25)

कक्षा / Class : 10

दोनों को ही शीलता प्रदान की।

अवधि / Duration : 3 घंटे

विषय /Subject- हिंदी (द्वितीय भाषा)

अधिकतम अंक / Max. Marks : 80

सामान्य निर्देश / General Instructions:

- 1. इस प्रश्नपत्र में चार खण्ड है -खण्ड 'क' ,'ख' , 'ग' और 'घ ।
- 2. प्रश्नपत्र के चारों खण्डों में कुल प्रश्नों की संख्या 15 है और सभी प्रश्न अनिवार्य हैं |
- 3. यथासंभव सभी प्रश्नों के उत्तर क्रमानुसार दीजिए |

खंड-क (अपठित बोध)

(प्रश्न -1) निम्नितिखित गद्यांश को पढ़कर नीचे दिए गए प्रश्नों के उत्तर लिखिएकबीर ने समाज में रहकर समाज का बड़े समीप से निरीक्षण किया। समाज में फैले बाह्याडंबर, भेदभाव, साम्प्रदायिकता आदि का उन्होंने पुष्ट-प्रमाण लेकर ऐसा दृढ़ विरोध किया कि किसी की हिम्मत नहीं हुई जो उनके अकाट्य तर्कों को काट सके। कबीर का व्यक्तित्व इतना ऊँचा था कि उनके सामने टिक सकने की हिम्मत किसी में नहीं थी। इस प्रकार उन्होंने समाज तथा धर्म की बुराइयों को निकाल-निकालकर सबके सामने रखा। ऊँचा नाम रखकर संसार को ठगने वालों के नकली चेहरे सबको दिखाए। दीन-दिलतों को ऊपर उठाने का उपदेश देकर ,अपने व्यक्तित्व को सुधार कर सबके सामने एक महान आदर्श प्रस्तुत कर सिद्धांतों का निरूपण किया। कर्म, सेवा, अहिंसा तथा निर्गुण मार्ग का प्रसार किया। कर्म-काण्ड तथा मूर्तिपूजा का विरोध किया। अपनी साखियों, रमैनियों तथा सबदों को बोलचाल की भाषा में रचकर सबके सामने एक विशाल ज्ञानमार्ग खोला। इस प्रकार कबीर ने समन्वयवादी दृष्टिकोण अपनाया और कथनी-करनी की एकता पर बल दिया। वे महान युगदृष्टा, समाज-सुधारक तथा महान किये। उन्होंने हिन्दू-मुस्लिम के बीच समन्वय की धारा प्रवाहित कर

- (अ) गद्यांश पर आधारित नीचे लिखे बहुविकल्पी प्रश्नों के उत्तर लिखिए । (1×3=3) 1. कबीर किस भक्ति-मार्ग का प्रसार करते थे?
 - (क) <mark>सगुण (ख)</mark> निर्गुण (ग) सगुण व निर्गुण (घ) इनमें कोई नहीं

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- 2. कबीर ने हिन्दू-मुस्तिम के मध्य कौन सा दृष्टिकोण अपनाया? (क) समाजवादी (ख) धार्मिक (ग) समन्वयवादी (घ) ऐतिहासिक
- 3. कर्म, सेवा, अहिंसा एवं निर्गुण मार्ग के पक्षधर इनमें से कौन थे? (क) तुलसीदास (ख) कबीरदास (ग) सूरदास (घ) मीराबाई
- (ब) गद्यांश पर आधारित नीचे लिखे प्रश्नों के उत्तर लिखिए। (2×2=4)

 1.कबीर ने समाज में रहकर किसका दृढ़ विरोध किया?

 2-कबीर कौन थे?

(प्रश्न-2.) नीचे दिये गए पद्यांश को ध्यानपूर्वक पढ़कर उस पर आधारित प्रश्नों के उत्तर दीजिए।

> हे ग्राम देवता ! नमस्कार ! सोने-चाँदी से नहीं किंतु त्मने मिट्टी से किया प्यार । हे ग्राम देवता ! नमस्कार ! जन-कोलाहल से दूर कहीं एकाकी सिमटा-सा निवास, रवि-शशि का उतना नहीं कि जितना प्राणों का होता प्रकाश । श्रम-वैभव के बल पर करते हो, जड़ में चेतन का विकास, दानों-दानों में फूट रहे, सौ-सौ दानों के हरे हास । यह है न पसीने की धारा, यह गंगा की है धवल धार । हे ग्राम देवता ! नमस्कार ! अधख्ले अंग जिनमें केवल है

> > Page 2 of 10

करो हुए कुछ अस्थि-खंड
जिनमें दधीचि की हड्डी है,
यह वज्र इंद्र का है प्रचंड!
जो है गतिशील सभी ऋतु में
गर्मी, वर्षा हो या कि ठंड!
जग को देते हो पुरस्कार,
देकर अपने को कठिन दंड!
झोंपड़ी झुकाकर तुम अपनी,
ऊँचे करते हो राज-द्वार!
है ग्राम देवता। नमस्कार!

(i) किसान को कवि ने 'देवता' क्यों कहा है?

(1)

- (क) गर्मी-सर्दी सभी ऋतुओं में कठोर परिश्रम करने के कारण।
- (ख) ऊँचे-ऊँचे राज-प्रासादों में रहने वालों का पेट भरने के कारण।
- (ग) सोने-चाँदी के स्थान पर मिट्टी से प्रेम करने के कारण।
- (घ) अपने श्रमबल से अन्न उपजा कर संसार का पेट भरने के कारण।
- (ii) किसान के परिश्रम का परिणाम है-

(1)

- (क) गंगा की धारा का धवल होना
- (ख) खेतों में चहल-पहल होना
- (ग) ऊसर भूमि का हरे-भरे खेतों में बदलना।
- (घ) पसीने का वर्षा में बदलना
- (iii) 'किसान स्वयं छोटे-से घर में संतुष्ट रहता है' यह भाव किन पंक्तियों में आया है? (1)
 - (क) सोने-चाँदी से नहीं किंतु तुमने मिट्टी से किया प्यार।

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(प्रश्न-5) निम्नतिखित वाक्यों में से किन्हीं चार रेखांकित पर्दों का पद-परिचय दीजिए -(1x4=4)

- (1) <u>भीरा</u> पाँचवी कक्षा में पढ़ती है।
- (2) हम बाग में गए किन्तु वहाँ कोई आम नहीं मिला ।
- (3) रंग-बिरंगे फूल देखकर मन प्रसन्न हो गया।
- (4)घोड़ा तेज दौड़ रहा है।
- (5) 'बच्चे मैदान में खेल रहे थे।

(प्रश्न-6) निर्देशानुसार अलंकार पर आधारित किन्हीं <u>चार प्रश्नों</u> के उत्तर दीनिए। (1x4=4)

- (i) 'पीपर-पात सरिस मन डोला' में कौन-सा अलंकार है?
- (ii) 'मानो माई घनघन अंतर दामिनी' में कौन-सा अलंकार है?
- (iii) 'प्रातिह जगावत गुलाब चटकारी दे' में कौन-सा अलंकार है?
- (iv) उपमा अलंकार के कितने अंग हैं?
- (v) 'पानी परात को हाथ छुयो नहीं, नैनन के जल से पग धोए' में कौन-सा अलंकार है?

खंड-ग (पाठ्यपुस्तक एवं पूरक पाठ्यपुस्तक)

(प्रश्न-7) निम्नितिखित पठित गद्यांश पर आधारित बहुविकल्पी प्रश्नों के सर्वाधिक उपयुक्त विकल्प तिखिए - (1 x 5 =5)

कार्तिक आया नहीं कि बालगोबिन भगत की प्रभातियाँ शुरू हुई,जो फाल्गुन तक चला करतीं |इन दिनों वह सवेरे ही उठते| न जाने किस वक्त जगकर वह नदी-स्नान को जाते, गाँव से दो मील दूर| वहाँ से नहा-धोकर लौटते और गाँव के बाहर ही पोखरे के ऊँचे भिंडे पर अपनी खंजड़ी लेकर बैठ जाते और अपने गाने टेरने लगते| मैं शुरू से ही देर तक सोनेवाला हूँ किन्तु, एक दिन माघ की उस दाँत किटिकटानेवाली भोर में भी उनका संगीत मुझे पोखरे पर ले गया था | अभी आसमान के तारों के दीपक बुझे नहीं थे| हाँ पूरब में लोही लग गई थी जिसकी लालिमा को शुक्र तारा और बढ़ा रहा था | खेत,बगीचा,घर सब पर कुहासा छा रहा था | सारा वातावरण अजीब रहस्य से आवृत मालूम पड़ता था | उस रहस्यमय वातावरण में एक कुश की चटाई पर पूरब मुँह, काली कमली ओढ़े, बालगोबिन भगत अपनी खंजड़ी लिए बैठे थे | उनके मुँह से शब्दों का ताँता लगा था,उनकी अंगुलियाँ खंजड़ी पर लगातार चल रही थीं |

(42

The second secon	Mark at which is to think a fifth and is from the
(i) प्रभातियाँ किस समय गाया जाने	रे वाला गीन है 2
(क) भोर	
(ग) संध्या	(ख) मध्याहन
	(प) अपराहन
(ii) 'उनके मुँह से शब्दों का ताँता ह (क) वह एक के बाद एक गीत गाए (ग) वह लोगो को आशीर्वचन दे रहे (iii) गद्यांश में किस ऋतु का उल्ले	जा रहे थे। (ख) वह लगातार प्रवचन दिए जा रहे थे। थे। (घ)वह किसी से लगातार बातें किए जा रहे थे।
(क) वसंत ऋतु (ग) ग्रीष्म ऋतु	(ख) शीत ऋतु (घ) वर्षा ऋतु
(iv) बालगोबिन की प्रभातियाँ कब त (क) फाल्गुन से कार्तिक तक (ग) फाल्गुन से आषाढ़ तक (v) भगत गाँव के बाहर पोखरे के ले (क) शांत और प्राकृतिक वातावरण (ग) गाँव में अधिक शोर की मनाही	(ख) कार्तिक से फाल्गुन तक (घ) कार्तिक से चैत्र तक
(प्रश्न-8) गद्य पाठों के आधार पर लगभग 25 से 30 शब्दों	निम्निलिखित चार प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर में लिखिए - (2x3=6)

ii) वो लँगड़ा क्या जाएगा फ़ौज में। पागल है पागल!"
 कैप्टन के प्रति पानवाले की इस टिप्पणी पर अपनी प्रतिक्रिया लिखिए।

- iii) पाठ के आधार पर बालगोबिन भगत के गायन की विशेषताएँ लिखिए।
- iv) लेखक को नवाब साहब के किन हाव-भावों से महसूस हुआ कि वे उनसे बातचीत करने के लिए तनिक भी उत्सुक नहीं हैं?

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(प्रश्न-9) निम्नतिखित पठित पव्यांश पर आधारित बहुविकस्पी प्रश्नों के उपयुक्त उत्तर तिखिए- (1X5=5)

बिहसि लखनु बोले मृदु बानी। अहो मुनीसु महा भटमानी।।
पुनि पुनि मोहि देखाव कुठारु। चहत उड़ावन फूँकि पहारु।।
इहाँ कुम्हड़बतिया कोउ नाहीं। जे तरजनी देखि मिर जाहीं।।
देखि कुठारु सरासन बाना। मैं कछु कहा सिहत अभिमाना।।
भृगुसुत समुझि जनेउ बिलोकी। जो कछु कहहु सहउँ रिस रोकी।।
सुर मिहसुर हरिजन अरु गाई। हमरें कुल इन्ह पर न सुराई।।
बधें पापु अपकीरति हारें। मारतहूँ पा परिअ तुम्हारें।।
कोटि कुलिस सम बचनु तुम्हारा। ब्यर्थ धरहु धनु बान कुठारा।।
जो बिलोकि अनुचित कहेउँ छमहु महामुनि धीर।
सुनि सरोष भृगुबंसमिन बोले गिरा गंभीर।।

- (I) निम्नलिखित पंक्तियों में से किस पंक्ति से लक्ष्मण के शक्तिशाली होने का पता चलता है:
 - (क) बिहिस लखनु बोले मृदु बानी। अहो मुनीसु महाभट मानी।।
 - ्र (ख) पुनि पुनि मोहि देखाव कुठार। चहत उड़ावन फूँकि पहारू।।
 - (ग) देखि कुठारु सरासन बाना। मैं कछु कहा सहित अभिमाना।।
 - ে (ঘ) इहाँ कुम्हड़बतिया कोउ नाहीं। जे तरजनी देखि मरि जाहीं ।।
- (II) लक्ष्मण ने परशुराम के किस स्वभाव पर व्यंग्य किया है?
 - (क) चाटुकारिता

(ख) आलसीपन

(ग) मधुरता

(घ) बड़बोलापन है है है है है है है है

(III) 'बिहिस लखन बोले मृदु बानी। अहो मुनीसु महाभट मानी' यह कथन किसका उदाहरण है -

1 人名英格兰斯特特斯特 15-16 · 16-16 · 16-16 · 16-16 · 16-16 · 16-16 · 16-16 · 16-16 · 16-16 · 16-16 · 16-16 · 16-16 · 16

(क) व्यंग्य

(ख) हास्य

(ग) क्रोध

(घ) वैराग्य

(iv) लक्ष्मण का यह कथन 'एक फूँक से पहाड़ उड़ाना' परशुराम के किस गुण को दर्शाता है?

(क) योद्धा

(ख) कायर

(ग) आलसी

(घ) मूर्खता

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- (v) रघुकुल में किल-किम के प्रति अपनी वीरता का प्रदर्शन नहीं किया जाता है? (क) देवता, ब्राहमण, ईश्वर भक्त और गाय पर

 - (ख) स्त्रियों, बच्चों, ईश्वर भक्त और गाय पर
 - (ग) देवता, राजा, वीर योद्धा और स्त्रियों पर
 - (घ) स्त्रियों, बच्चों, राजा और गाय पर

(प्रश्न-10) पद्य पाठों के आधार पर निम्नलिखित चार प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर $(2 \times 3 = 6)$ दीजिए।

- 1. गोपियों द्वारा उद्धव को भाग्यवान कहने में क्या व्यंग्य निहित है?
- 2. मरजादा न लही' के माध्यम से कौनसी मर्यादा न रहने की बात की जा रही है-?
- 3. परशुराम के क्रोध करने पर राम और लक्ष्मण की जो प्रतिक्रियाएँ हुई उनके आधार पर दोनों के स्वभाव की विशेषताएँ अपने शब्दों में लिखिए।
- 4. साहस और शक्ति के साथ विनम्नता हो तो बेहतर है। इस कथन पर अपने विचार लिखिए। (1) विस्तानिकार प्रतिकार में से किया प्रापंत

मध्यम् राष्ट्र अध्यम् आंक्षे अस् स्टाना अपूर्व (क) (प्रश्न-11) पूरक पाठ्यपुस्तक पर आधारित निम्नलिखित तीन प्रश्नों में से किन्हीं दो प्रश्नों के $(4 \times 2 = 8)$

- 1. भोलानाथ और उसके साथियों के खेल और खेलने की सामग्री आपके खेल और खेलने की सामग्री से किस प्रकार भिन्न है?
- 2. गंतोक को 'मेहनतकश बादशाहों का शहर' क्यों कहा गया?
- 3. 'कटाओ' पर किसी भी दुकान का न होना उसके लिए वरदान है। इस कथन के पक्ष में अपनी राय व्यक्त कीजिए?

खंड-घ (रचनात्मक लेखन)

(प्रश्न-12) निम्नलिखित तीन विषयों में से किसी एक विषय पर लगभग 120 शब्दों में सार गर्भित अनुच्छेद लिखिए। (6)

- 1) बच्चों की शिक्षा में माता-पिता की भूमिका
 - शिक्षा और माता-पिता
 - शिक्षा की महता
 - उत्तरदायित्व
 - शिक्षाविहीन नर पशु समान।

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THE THE

2) विज्ञान की अव्भुत खोज: मोबाइस फ़ोन

- विज्ञान की अद्भृत खोज
- फ़ोनों की बदलती दुनिया में
- संचार क्षेत्र में क्रांति
- स्ता और सुलभ साधन
- लाभ और हानियाँ।

3) मानव जीवन पर विज्ञापनों का असर

- विज्ञापन का अर्थ एवं प्रचार-प्रसार
- विज्ञापनों की लुभावनी भाषा
- विज्ञापन का प्रभाव
- विज्ञापन के लाभ-हानि।

(प्रश्न-13) किसी एक विषय पर लगभग 100 शब्दों में औपचारिक /अनौपचारिक पत्र लिखिए: (5)

(ख) जिला स्तर पर आयोजित विज्ञान प्रदर्शनी में आपके द्वारा तैयार मॉडल को प्रथम पुरस्कार प्राप्त हुआ । अपने मित्र को इसकी जानकारी देते हुए और अपनी खुशी साझा करते हुए लगभग 100 शब्दों में एक पत्र लिखिए ।

अथवा

आप नमित नमिता हैं।/जिला अस्पताल में उचित चिकित्सा सुविधाएँ उपलब्ध कराने का अनुरोध करते हुए अपने जिले के मुख्य चिकित्सा अधिकारी को एक पत्र लिखिए।

(प्रश्न-14) (क) आप अनन्य/अनन्या हैं। दवाइयों की कंपनी में लेखापाल (अकाउन्टेंट) का पद रिक्त है। आप उक्त पद की योग्यता बी. कॉम (ऑनर्स) धारण करते हैं। निदेशक को आवेदन भेजने के लिए लगभग 80 शब्दों में स्ववृत लिखिए। (5)

अथवा

आप ग्रीन वेल अपार्टमेंट, मुंबई में रहते हैं। आपके इलाक़े में एक सीवर का पाइप टूट गया है जिसके कारण नाले का गंदा पानी सड़क पर आ गया है और ज्यादा गंदगी फैल रही है। नगर निगम अधिकारी को abc@efg.com पर ई -मेल लिखकर-सीवर की मरम्मत करवाने का अनुरोध कीजिए।

Page 9 of 10

(प्रश्न-15) (क) आप रूपेंद्र/रूपा हैं। आप अपनी पुरानी साइकिल बेचना चाहते हैं। उससे संबंधित जानकारी देते हुए एक आकर्षक विज्ञापन लगभग 40 शब्दों में तैयार कीजिए।

अथवा

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केंग्रह पहाले केंद्र विकास प्रति का तरह प्रकारकार शेक्य कि सामि क्रिक्र (प्राप्त कार्य क्रिक्र)

का केंद्र के करतार में स्वीत कार केरी अजीत में कामण है पर में। है प्राप्त पर अपीत पर

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हाता स्टेस्ट प्रस्त मध्येष्ट के क्षेत्र हैं जिसके हालांकी है क्षेत्र क्षेत्र के प्रस्ति कर प्रदेश हैं है। बाजा में 13 मान सरस्य आने का उत्तर स्वामी सरसार पर उस सर्वाम **क्षेत्र असे अस्ति** के क्षेत्र

क्षेत्र प्रकारिक के विकास के प्राप्त के अप मान किया है। जिस्सी के विकास के बार के किया है कि है।

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(ख) आप शिक्षा/विदित हैं। अपनी मित्र स्नेहा को बैडमिंटन के लिए राष्ट्रीय स्तर पर चयनित होने के लिए लगभग 40 शब्दों में एक बधाई-संदेश लिखिए।

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परमाणु ऊर्जा शिक्षण संस्था

Atomic Energy Education Society

आवधिक परीक्षा / Periodic Test-II (2024 – 25)

कक्षा / Class : X

अवधि/Duration : 3 HOURS

विषय / Subject : Mathematics

अधिकतमअंक/Maximum Marks: 80

सामान्य निर्देश/General Instructions:

- 1. This Question Paper has 5 Sections A-E.
- 2. Section A has 20 MCQs carrying 1 mark each.
- 3. Section B has 5 questions carrying 2 marks each.
- 4. Section C has 6 questions carrying 3 marks each.
- 5. Section D has 4 questions carrying 5 marks each.
- 6. Section E has 3 case based integrated units or assessment (04 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.
- 7. All Questions are compulsory. However, an internal choice in 2 Qs of 5 marks, 2 Qs of 3 marks and 2 questions of 2 marks has been provided. An internal choice has also been provided in the 2marks questions of Section E.
- 8. Draw neat figures wherever required. Take $\pi = 22/7$ wherever required, if not stated.

SECTION A (1X20)

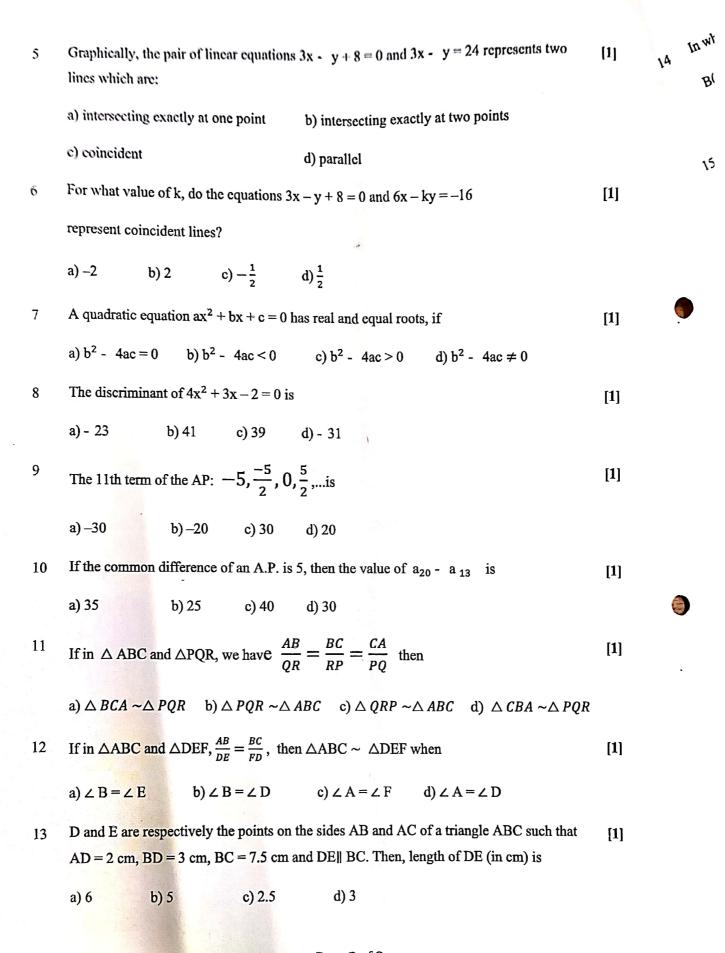
- The exponent of 2 in the prime factorisation of 144, is

 a) 4 b) 2 c) 6 d) 1

 If the HCF of 65 and 117 is expressible in the form 65m 117, then the value of 'm' is

 a) 3 b) 1 c) 2 d) 4
- The zeroes of the quadratic polynomial $x^2 + 5x + 6$ are [1]
 - (a) both negative (b) one positive and one negative
- (c) both positive (d) both equal
- 4 A quadratic polynomial, whose zeros are 5 and 8 is [1]

a) $x^2 + 4x - 3$ b) $x^2 + 3x - 40$ c) $x^2 + 13x - 40$ d) $x^2 - 3x - 40$



Page 2 of 8

In what ratio does x - axis divide the line segment joining the points A(2, -3) and [1] B(5, 6)?

- a) 1:2
- b) 3:5
- c) 2:1
- d) 2:3

The distance between the points (c, 0) and (0, -c) is: 15

[1]

- a) 2c units
- b) c units
- c) $c\sqrt{2}$ units d) $2\sqrt{c}$ units

If the distance between the points A(4, p) & B(1, 0) is 5 units, then the value(s) of p is/are 16 [1]

- a) 0
- b) 4 only
- c) 4 only

The zeroes of the polynomial the $3x^2 - 5x - 2$ are 17

[1]

- a) $\frac{1}{3}$, 2
- b) $\frac{-1}{3}$, 2 c) $\frac{-1}{3}$, -2 d) $\frac{1}{3}$, -2

The LCM of the smallest odd composite number and the smallest prime number is 18 [1]

- a) 1
- b) 10
- c) 18
- d) 4

19 Assertion (A): The graphic representation of the equations x + 2y = 3 and 2x + 4y + 7 = 0[1] gives a pair of coincident lines.

Reason (R): The graph of linear equations $a_1 x + b_1 y + c_1 = 0$ and $a_2 x + b_2 y + c_2 = 0$ gives a pair of coincident lines if $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

Assertion (A): Common difference of the AP - 5, - 1, 3, 7, ... is 4. 20 [1]

Reason (R): Common difference of the AP a, a + d, a + 2d, ... is given by $d = 2^{nd}$ term- 1^{st} term.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

SECTION B (2X5)

21 Explain why $7 \times 11 \times 13 + 13$ is a composite number. [2] Find

Find out whether the following pair of linear equations are consistent or inconsistent: 22

If th [2]

$$5x - 3y = 11$$
, $-10x + 6y = -22$

OR

The difference between two numbers is 26 and one number is three times the other. Find the numbers.

Solve the quadratic equation using quadratic formula: 23

[2]

$$3x^2 - 2\sqrt{6}x + 2 = 0$$

In the figure, altitudes AD and CE of \triangle ABC intersect each other at the point P. Show 24 that: $\triangle AEP \sim \triangle ADB$

[2]

- Find the value(s) of y for which the distance between the points A(3, 1) and B(11, y) is 25 [2] 10 units.

OR

In what ratio does the point P(-4,6) divide the line segment joining the points A(-6,10) & B(3,-8)?

SECTION C (3X6)

26 Show that. $5 - \sqrt{3}$ is irrational.

[3]

- Find the zeroes of the polynomial $4x^2 + 5\sqrt{2}x 3$ by factorisation method and verify the 27 [3] relationship between the zeroes and coefficient of the polynomial.
- 28 The sum of two numbers is 27. If their product is 182, find the numbers.

[3]

One root of the quadratic equation $2x^2 - 8x - k = 0$ is $\frac{5}{2}$. Find the value of k. Also, find 29 [3] the other root.

OR

Find two consecutive odd positive integers, sum of whose squares is 970.

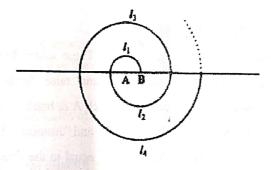
- The sum of the 4th and 8th terms of an AP is 24 and the sum of the 6th and 10th terms is 44. [3] Find the first three terms of the AP.
- 31 If the point C(-1, 2) divides internally the line segment joining A (2, 5) and B(x, y) in the ratio 3:4, find the coordinates of B.

OR

Find the co-ordinates of the point on y- axis which is equidistant from the points A (5, -2) and B (-3, 2).

SECTION D (5X4)

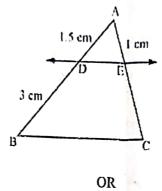
- Draw the graphs of the pair of linear equations x y + 2 = 0 and 4x y 4 = 0. Calculate [5] the area of the triangle formed by the lines so drawn and the x-axis.
- A train travels 360km at a uniform speed. If the speed had been 5km/h more, it would have taken 1 hour less for the same journey. Find the speed of the train.
- A spiral is made up of successive semicircles, with centres alternately at A and B, starting with centre at A, of radii 0.5 cm, 1.0 cm, 1.5 cm, 2.0 cm, . . . as shown in figure below. What is the total length of such a spiral made up of thirteen consecutive semicircles? (Take $\pi = \frac{22}{7}$)



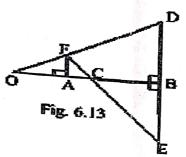
OR

The sum of four consecutive numbers in an AP is 32 and the ratio of the product of the first and the last terms to the product of the two middle terms is 7: 15. Find the numbers.

State and prove Basic Proportionality Theorem and hence find EC in given figure if 35 DE || BC.



In the fig 6.13, OB is the perpendicular bisector of the line segment DE, FA \perp OB and FE intersects OB at the point C. Prove that $\frac{1}{OA} + \frac{1}{OB} = \frac{2}{OC}$



SECTION E (4X3) 36 An alumni association is an association of former students. These associations often organize social events, publish newsletters or magazines and raise funds for the organisation. The alumni meet of two batches of a college - batch A & batch B were held on the same day in the same hotel in two separate halls "Rose" and "Jasmine". The rents were the same for both the halls. The expense for each hall is equal to the fixed rent of each hall and proportional to the number of persons attending each meet. 50 persons attended the meet in "Rose" hall, and the organisers had to pay₹ 10000 towards the hotel charges. 25 guests attended the meet in "Jasmine" hall and the organisers had to pay ₹ 7500 towards the hotel charges. Denote the fixed rent by ₹x and proportional expense per person by ₹ y.

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 Represent algebraically the situation in hall "Rolling of the	Former het
2 D. algebraically the situation in hell "D	
2. Represent algebraically the site of milall "Ro	ose".
2. Represent algebraically the situation in hall "Road." 3. What is the fixed rent of the halls?	Smine". [1
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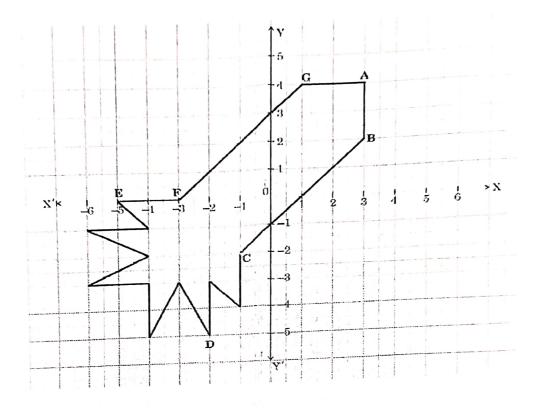
3. What is the fixed rent of the halls? 1] [1]

[2]

Find the amount the hotel charged per person.

151

Ryan, from a very young age, was fascinated by the twinkling of stars and the vastness of space. He always dreamt of becoming an astronaut one day. So he started to sketch his own rocket designs on the graph sheet. One such design is given below.



Based on the above, answer the following questions:

(i) Find the mid-point of the segment joining F and G.

[1]

(ii) Write the coordinates of D.

[1]

(iii) (a) What is the distance between the points A and C?

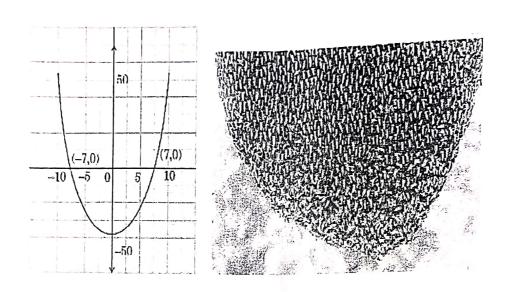
[2]

OR

(b) find the coordinates of the point which divides the line segment joining the points A and B in the ratio 1:3 internally.

While playing in a garden, Samaira saw a honeycomb and asked her honey bees to store honey. Also, she told her that the shape of the honeycomb formed is a mathematical structure. The mathematical representation of the honeycomb is shown in the graph.

Based on the above information, answer the following question



- (i) How many zeroes are there for the polynomial represented by the given graph ? [1]
- (ii) Write the zeroes of the polynomial. [1]
- (iii) (a) If the zeroes of a polynomial $x^2 + (a + 1) x + b$ are 2 and 3, then [2]

determine the values of a and b.

OR

(b) If the square of difference of the zeroes of the polynomial $x^2 + px + 45$ is 144, then find the value of p.



परमाणु ऊर्जा शिक्षण संस्था

Atomic Energy Education Society आवधिक परीक्षा / Periodic Test II (2024-25)

कक्षा/ Class: X

अवधि/Duration: 3 घंटे/Hours

विषय/Subject: SCIENCE

अधिकतम अंक/Maximum Marks:80

सामान्य निर्देश / General Instructions:

Read the following instructions very carefully and strictly follow them:

- (i) This question paper comprises 39 questions. All questions are compulsory.
- (ii) This question paper is divided into five sections A,B,C,D and E
- (iii) Section A-Questions No. 1 to 20 are Multiple Choice Questions. Each question carries 1 mark.
- (iv) Section B-Questions No. 21 to 26 are Very Short Answer type questions. Each question carries 2marks. Answer to these questions should be in the range of 30 to 50 words.
- (v) Section C-Questions No. 27 to 33 are Short Answer type questions. Each question carries 3 marks. Answer to these questions should be in the range of 50 to 80 words.
- (vi) Section D-Questions No. 34 to 36 are Long Answer type questions. Each question carries 5 marks. Answer to these questions should be in the range of 80 to 120 words.
- (vii) Section E-Questions No. 37 to 39 are of 3source based / case-based units of assessment carrying 4 marks each with sub-parts.
- (viii) There is no overall choice. However, an internal choice has been provided in some sections. Only one of the alternatives has to be attempted in such questions.

SECTION A $(1 \times 20 = 20)$

Select and write the most appropriate option out of four options given for each of the question no. 1 to 20. There is no negative marking for incorrect response.

1. $Fe_2O_3 + 2 Al$ -----> $Al_2O_3 + 2Fe$

The above reaction is an example of a

- (A) combination reaction
- (C) decomposition reaction

- (B) double displacement reaction
- (D) displacement reaction

Page 1 of 9

2,	In order to balance the following chemical equation, the values of the coefficients						
	respectively are:		1 - 1 - 1				

$$^{\text{XPb(NO}_3)_2}$$
 +Heat \rightarrow 2PbO + yNO₂ + O₂

(A) 2, 4

(B) 2,2

(C) 2, 3

(D) 4, 2

3. When zine reacts with sodium hydroxide, the product formed is:

(A) Sodium oxide

(B) Sodium zincate

(C) Zinc hydroxide

(D) Zinc oxide

4. Select the correct option from the following:

	Salt Sodium acetate	Parent Acid	Parent base	Nature of salt
	Sodium carbonate	CH₃COOH	NaOH	Neutral
_	Sodium chloride	H ₂ CO ₃	NaOH	Basic
_	Sodium nitrate	HCl	NaOH	Acidic
	To the second	HNO ₃	NaOH	Acidic

5. 10 mL of a solution of NaOH is found to be completely neutralised by 8 mL of a given solution of HCl. If we take 20 mL of the same solution of NaOH, the amount HCl solution (the same solution as before) required to neutralise it will be

(A) 4 mL

(B) 8 mL

(C) 12 mL

(D) 16 mL

6. Sphincter muscles are present at the exit of:

(A) Stomach and small intestine

(B) Stomach and anus

(C) Small intestine and large intestine

(D) Oesophagus and stomach

7. During vigorous exercise, the occurrence of cramps in the outer muscles of an athlete is due to the conversion of pyruvate to:

(A) Glucose

(B) Ethanol

(C) Lactic acid

(D) Lactose

8. Plants which bear unisexual flowers are:

(A) Mustard and Papaya

(B) Hibiscus and Watermelon

(C) Mustard and Hibiscus

(D) Watermelon and Papaya

9. A plant growth inhibitor hormone which causes wilting of leaves is called:

(A) Auxin

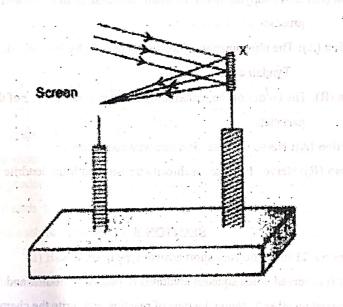
(B) Cytokinin

(C) Abscisic acid

(D) Gibberellin

10. The anther contains (C) carpels (D) pollen grains (B) ovules (A) sepals 11. Colour of sky appears blue, due to the (B) presence of plants in water (A) atmospheric refraction (D) none of these (C) scattering of light 12. Which of the following controls the amount of light entering the eye (C) comea (D) lens (B) iris (A) pupil 13. If an object is placed at Focus of concave lens, the image is formed due to concave lens (D) twice the focal length (C) beyond focus (B) within focus (A) at infinity 14. The change of focal length of eye lens is caused by the action of the (D) pupi! (C) comea (B) iris (A) ciliary muscles 15. Name the type of image that can be obtained on the retina (D) virtual and inverted (A) Real and erect (B) Virtual and erect (C) Real and inverted 16. A student determines the focal length of a device X, by focusing the image of a far off object on

the screen positioned as shown in the figure below:



The device X is a:

(A) Convex lens (B) Concave mirror (C) Concave lens (D) Convex mirror

Page 3 of 9

For Questions Numbers 17 to 20, two statements are given - one labelled Assertion (A) a_{nq} the other labelled as Reason (R). Select the correct answer to these questions from the c_{ode_q} (A), (B), (C) and (D) as given below:

- (A) Both Assertion (A) and Reason (R) are true, and Reason (R) is the correct explanation of Assertion (A).
- (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).
- (C) Assertion (A) is true, but Reason (R) is false.
- (D) Assertion (A) is false, but Reason (R) is true
- 17. Assertion (A): Hydrochloric acid helps in the digestion of food in the stomach.
 Reason (R): Hydrochloric acid creates an acidic medium to activate protein digesting enzymes.
- 18. Assertion (A): When a bacterium divides into two, and the resultant two bacteria divide again, the four bacteria produced would be almost similar...
 - Reason (R): DNA copying involves small inaccuracies in the reproduction process.
- Assertion (A): The phenomenon of scattering of light by the colloidal particles gives rise to Tyndall effect.
 - Reason (R): The colour of the scattered light depends on the size of the scattering particles.
- 20. Assertion (A): Nerve impulse is a one way conduction.Reason (R): Nerve impulse is directly transmitted from dendrite to axon terminals.

SECTION B (2 x6= 12)

Questions no. 21 to 26 are very short answer type questions.

21. (a) What is observed when aqueous solutions of potassium iodide and lead nitrate are mixed together? Name the type of reaction and write the chemical equation for the reaction that occurs.

OR

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(b)

(b) When copper powder is heated in a watch glass, a black substance is formed.	
(i) Why is this black substance formed? Name it.	
(ii) How can this black substance be reversed to its original form?	
22. A solution of a substance "X" is used for white washing.	Mar 18
(i) Name the substance "X" and write its formula.	
	2)
23. (a) We need to water the soil in plants on a regular basis. But it ultimately reaches the	leaves of
	2)
OR	
(b) Name the type of nutrition exhibited by Amoeba. Explain how food is taken in and	l digested
by this organism.	
	(2)
(i) Maintaining posture and balance	4
(ii) Beating of heart	
(iii) Thinking	
(iv) Blood pressure	
25. With the help of a diagram, show recombination of the spectrum of white light. (2) ₍₎
26. Why do we prefer a convex mirror as a rear-view mirror in vehicles? (2	
SECTION C (3 x7=21)	
Questions no. 27 to 33 are short answer type questions.	
27. (a) Why does distilled water not conduct electricity whereas rain water does?	
(b) Why do acids not show acidic behaviour in the absence of water?	
(c) Plaster of Paris should be stored in a moisture -proof container. Explain why?	(3)
28. What are the three products of 'Chlor-akaliprocess'? Write one commercially or ind	ustrially
important material each that can be prepared from each of these products?	(3)
29. Write two examples each of Sexually Transmitted Diseases (STD) caused by	
(i) Virus (ii) Bacteria	
Explain how the transmission of such diseases be prevented.	(3)
OR	
(a) Describe in brief the functions of the following parts in human male reproductive sy	stem:
(i) Testes (ii) Seminal vesicle (iii) Vas deferens (iv) Urethra	
(b) Why are testes located outside the abdominal cavity?	3

Page 5 of 9

30. What are the different pathways by which break-down of glucos	e take place to provide energy
in various organisms? Explain.	• k-7
31. If the image formed by a lens for all positions of an object placed	
and diminished, what is the nature of this lens? Draw a ray diagra	
the numerical value of the power of this lens is of 10 D, what is it	The state of the set of the late of the set
system.	on nedge is seen at the
oz. Expidit wily:	
(a) stars twinkle (b) planets do not twinkle	
() Parado do 200 tivilizado,	
(c) the sky appears dark instead of blue to an astronaut	(3)
33. A person has been advised by a doctor to reduce his sugar intake:	reserg gustanostalist di
(i) Name the disease he is suffering from and name of the hormondeficiency causes it.	
(ii) Identify the gland that secretes it and mention the function of	this hormone.
(iii) Explain how the time and amount of secretion of this hormon	
	(3)
OR (IT = Tall) IN MESS TAR	` ,
Which part of nervous system controls reflex action? With the	help of a diagram trace the
sequence of events which occur when we touch a hot object. Ment	ion the part of the neuron that
acquires information and the form in which information travels.	n de tribe to general vivo en egen egen en e
Tyde un il anistration parent i garage	
SECTION D (5 x 3=15)	
Question no. 34 to 36 are long answer type questions.	
34. (a) With the help an activity explain that hydrogen and oxygen as current is passed through water.	re released when an electric
(b) What change in colour observed when white silver chloride is	left exposed to sun light?
State the type of chemical reaction in this change.	(5)
OR individual to the second of	
Marca let in our at 9 a condition	L'Anoni sono mayaW .d.

- (a) What is the difference between displacement and double displacement reactions? Write examples for these reactions.
- (b) Oil and fat containing food items are flushed with nitrogen . Why?
- 35. (a) A student suffering from myopia is not able to see distinctly the objects placed beyond 5 m.

 List two possible reasons due to which this defect of vision may have arisen. With the help of ray diagrams, explain:
 - (i) Why is the student unable to see distinctly the objects placed beyond 5 m from his eyes?
 - (ii) The type of the corrective lens used to restore proper vision and how this defect is corrected by the use of this lens.
 - (b) If, in this case, the numerical value of the focal length of the corrective lens is 5 m, find the Power of the lens as the new Cartesian sign convention. (5)

OR

- (a) What is meant by the term 'power of accommodation'? Name the component of eye that is responsible for the power of accommodation.
- (b) A security mirror used in a big showroom has radius of curvature 5 m. If a customer is standing at a distance of 20 m from the mirror, find the position, nature and size of the image formed in the security mirror.
- 36. (a) Draw excretory system in human beings and label the following organs of excretory system which perform following functions:
 - (i) Form urine
 - (ii) Is a long tube which collects urine from kidney.
 - (iii) Store urine until it is passed out.
 - (b) How is urine produced? Explain the process of urine formation.

our of the

(a) (i) Write one structural difference between the composition of artery and vein.

OR

- (ii) Trace the movement of oxygenated blood in the body.
- (iii) Write the function of valves present in between atria and ventricles.
- (b) Why is it necessary to separate oxygenated and deoxygenated blood in mammals and birds?

Page 7 of 9

(5)

SECTION E (3x4=12)

The following questions are source-based/ case based questions. Read the case carefully and answer the questions that follow.

37. When a ray of light incident on a prism it will split in seven colours that is called dispersion of light. A prism is a transparent refracting body bounded by plane faces which are inclined to each other at a particular angle called angle of prism. When a ray of light passes through a prism, it suffers refraction twice and hence the ray deviates through a certain angle from its original path. The angle between the incident ray and emergent ray is called angle of deviation.

- (a) For which colour, the angle of deviation is minimum? (1)
- (b) When a white light falls on a prism, the ray at its surface suffers: (1)
 - (A) Refraction only (B) dispersion only (C) deviation only (D) all of above
- (c) What is the cause of dispersion of light? **(2)**

(c) Define Spectrum of white light & write the colour of spectrum in ascending order with respect

38. Acids, bases and salts are three main categories of chemical compounds. These have certain definite properties which distinguish one class from the other. The acids are sour in taste while bases are bitter in taste. Tasting a substance is not a good way of finding out if it is an acid or a base. Acids and bases can be better distinguished with the help of indicators. Indicators are substances that undergo a change of colour with a change of acidic, neutral or basic medium. Many of these indicators are derived from natural substances. Litmus, a purple dye is extracted from the lichen plant. Some indicators are prepared artificially. For example, methyl orange and phenolphthalein .Given below is a table of indicators and their colour change in acidic and basic

Colour in A : 1	a 35 % 1
Colour in Acid	Colour in Alkali
Red	A STATE OF THE STA
Pinleigh and	Blue
T IIIKISH TEQ	Yellow
Colourless	Pink
	Pinkish red

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(a) Give two examples each of natural and artificial indicators.	(1)
(b) An aqueous solution turns red litmus solution blue. Excess addition of which solution would reverse the change - ammonium hydroxide or hydrochloric acid?(c) What will be the change in colour when a few drops of phenolphthalein is added	(1) (2)
to a solution having pH 8.5 ? OR	(2)
 (c) What are universal indicators? 39. All the reproductive methods of living organisms are broadly categorized into two type Asexual reproduction and 2. Sexual reproduction Asexual reproduction involves the participation of a single parent without the formation gametes, fertilisation and transfer of genetic material. This method is a common mea rapidly increasing offsprings under favorable conditions. (a) Name the type of fission that occurs in Leishmania and Plasmodium. (b) Write one advantage of sexual mode of reproduction over asexual reproduction 	of of of (1)
(c) Give reasons why:(i) Colonies of yeast fail to multiply in water but multiply in sugar solution.(ii) Rhizopus individuals do not grow on a dry slice of bread.	(2)
OR (c) Name the filamentous structures a student could identify when he collected was a pond that appeared dark green. How do these organisms multiply? Explain.	ter from

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परमाणु ऊर्जा शिक्षण संस्था

Atomic Energy Education Society

आवधिक परीक्षा / Periodic Test-II (2024 - 25)

कक्षा /Class : X

अवधि/Duration :3 Hours

विषय/Subject :Social Science

अधिकतम अंक/Maximum Marks :80

सामान्य निर्देश/General Instructions:

- This question paper comprises Five sections A,B,C,D,E and F. There are 3 questions in this question paper
- Section A- Questions from serial number 1 to 20 are MCQs of 1 mark each.
- Section B -Question no 21 to 24 are Very Short Answer Type Questions, carrying2 marks each. Answer to each question should not exceed 40 words
- Section C Question no 25 to 29 are Short Answer Type Questions, carrying 3 marks each. Answer to each question should not exceed 60 words
- Section D Question no 30 to 33 are long Answer Type Questions, carrying 5 marks each. Answer to each question should not exceed 80 words.
- Section E- Question no 34 to 36 are case based questions with four sub questions and are of 4 marks each
- Section F Question no 37 is map based carrying 5 marks
- There is no overall choice in the question paper. However, an internal choice has been provided in a few questions. Only one of the choices in such questions has to be attempted.
- In addition to this, separate instructions are given with each section and question, wherever necessary.

SECTION-A (MULTIPLE CHOICE QUESTIONS)

(1x20=20)

1. From which of the following countries Giuseppe Garibaldi belonged to?

(1 mark)

Austria

(c) Italy

(b) Greece (d) Spain

2. Two Statements are given below. They are assertion (A) and Reason (R). Read both the (1 mark) statements and choose the correct option.

Assertion (A): The most serious source of nationalist tension in Europe after 1871 was Balkan. Reason (R): A large part of the Balkan was under the control of Ottoman Empire.

- Both (A) and (R) are true and (R) is the correct explanation of (A)
- Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (A) is true but (R) is false. (c)
- (A) is false and (R) is true.

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3.	Arrange the following events in chorological or following: 1. Treaty of Constantinople III. Unification of Italy	der and chose the correct option from the (1 mark) II. Defeat of Napoleon IV. Unification of Germany
	(a) I, II, IV and III	(b) II, I, III and IV
	(c) II, I IV and III	(d) IV, I, III and II
4.	Read the given statements and choose the correct of from the following.	
	1. Rabi crops are sown in winter.	
	2. Sown from October to December and ha	rvested from April to June.
	3. Important crops are Maize, Cotton and J	· · · · · · · · · · · · · · · · · · ·
	4. Punjab, Haryana, Uttar Pradesh are impo	· · · · · · · · · · · · · · · · · · ·
	(a) 1,3 and 4 (c) 1,2 and 4	(b) 2,3 and 4 (d) 1,2,and 3.
5.	Identify the soil with the help of the following infor	rmation. (1 mark)
	 It develops in area with high tempe It is the result of intense leaching d Humus content is low. 	vrature. ue to heavy rain.
	(a) Arid Soil	(b) Yellow Soil
	(c) Laterite Soil	(d) Black Soil
6.	Which of the following term refers to the belief in a economic equality of women?	
	(a) Patriarchy	(1 mark) (b) Matriarchy
	(c) Socialist	(d) Feminists.
7.	Per capita income refers to	(1 mark)
	(a) Whole income of the country	(b) average income of the country
	(c) Average Income of an individual	(d) income of the rich people
8.	Which of the following was the primary objective of Brussels?	of Belgium to form the separate government in (1 mark)
	(a) Promoting cultural events.	(b) Managing international relations.
	(c) Enforcing local laws	(d) Ensuring Linguistic accommodation.
9.	Production of a commodity, mostly through the nat	tural process is an activity in sector. (1 mark)
	(a) Tertiary sector	(b) Secondary sector
	(b) Information sector	(d) Primary sector

10. Suppose, th	ne monthly income of the family memi	pers is as follows respectively:	(I musta	
Mother- Rs	s. 50,000/- Father- Rs. 40,000/- Son- e income of the family would be:	Rs. 20,000/- Daughter- Rs. 20,0	(1 mark) 100/-	
	Rs. 32,000/-	(b) Rs. 30,000/-		
(c)	32,500/-	(d) 33,000/-		
11 Which one	of the following is an arrown to a C			
(a) (b) (c) (d)	of the following is an example of orgated A farmer irrigating his field A handloom weaver working in her he A headload worker carrying cement. A teacher taking classes in a government.	ouse. ent school	(1 mark)	
12. Which one	was the reason for calling off 'the Non	-Cooperation Movement' by Gand	hi? (1 mark)	
(a)	Pressure from the British Government Chauri- Chaura incident	(b) Second Round Table Con(d) Gandhi's arrest.		
13. Arrange the	e following events in the correct sequer	ace:	(1 mark)	
2. C 3. D 4. M	Mahatma Gandhi returned to India from Congress gave the support to Khilafat in Pandi March. Mahatma Gandhi travelled to Champara gainst the oppressive plantation system.	ovement. n in Bihar to inspire the peasants to	struggle	
	1,4,2,3 4,2,3,1	(b) 2,3,4,1 (d) 2,1,4,3		
14. Assertion- A Reason- Al	Alluvial soil is ideal for growth of padd luvial soil is well known for its capacit	y, wheat, cereal and pulse crops. y to hold moisture.	(1 mark)	
(c) .	Both assertion and reason are true and reason are true but reassertion. Assertion is true but reason is false. Assertion is false but reason is true	reason is the correct explanation of eason is not the correct explanation	assertion	
15. Disguised u	memployment means a situation where	people are :	(1 mark)	
(a) (b) (c) (c) (c) (d)	Unemployed employed but earning less Seems to be employed but in reality, no Unemployed for a short period of time		(1 mark)	
16. Identify the	kind of administration system:		(1 morts)	
It consists	of two level governments. One level states, USA is known for the oldest con	of government is for the whole c	(1 mark) ountry and	
(a) 1	Unitary	(b) Presidential government	чу.	
(c)	Federal	(d) None of these.		
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17. Assertion: India is a secular state. Reason: Constitution gives freedom to everyone to profess, practice and propagate any religion (1 mark) without prejudice or any discrimination. (a) Both assertion and reason are correct and reason is the correct explanation of (b) Both assertion and reason are true but reason is not the correct explanation of assertion. (c) Assertion is true but reason is wrong. (d) Reason is true but assertion is wrong. 18. Which one of the following is not a developmental goal for the landless rural labourers? (1 mark) (a) Many days of work and better wages. (b) Local school is able to provide quality education for their children. (c) There is no social discrimination. (d) They cannot become leaders in the village. 19. Which one of the following pairs is correctly matched? (1 mark) (a) Primary Sector-Money lender. (b) Secondary Sector- Priest (c) Tertiary Sector- Bank (d) Manufacturing Sector- Gardener. 20. Which of the following statement is correct. (1 mark) (a) Service sector contributes more than half of the GDP of India. (b) The scope of attracting tourists is limited as there is hardly any place of tourist attraction in India. (c) As the economy grows, first service sector grows and then agriculture and industrial sector grows. (d) None of the above SECTION -B (VERY SHORT ANSWER TYPE QUESTIONS) (2x4=8)21. Suggest any two measures for the conservation of Forest. (2 marks) OR Suggest any two measures for the conservation of wild life. 22. Why is power sharing desirable? Explain. (2 marks) 23. Differentiate between public sector and private sector. (2 marks) 24. Briefly explain the idea of Satyagrah according to Gandhiji? (2 marks) SECTION-C (Short Answer type Questions) (3x5=)25. Describe the various step that are involved in planning?

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(b) Which were the earlier political agitations of Mahatma Gandhi in India?.

26 (a) Write a note on Jallianwala Baug massacre.

(3 marks)

(3 marks)

	27. Who was Count Camilo De Cavour? Mention his contribution in the unification of Ita 28. (a) What objections have been as it is	
	28. (a) What is contribution in the unification of Italy?	
	thive occuraised against multi-	(3 marks)
	(b) What are the factors responsible for the gasetters	ny three?
	(b) What are the factors responsible for the scarcity of water in India? 29. What were the Majoritarian measures taken in Srilanka to establish Sinhala supremacy?	(3 marks)
	SECTION-D (LONG ANSWER TYPE QUESTIONS)	(3 marks)
	30. (a) Explain the process of unification of Germany.	(5x4=20)
	(b) Explain the process of formation of United Viscol	(5 marks)
)	31. Describe any five institutional and technological reforms introduced by the government interest of farmers after independence.	_
		/
	32 (a). Describe any five steps taken by the Indian Government towards decentralisation 1992.	(5 marks)
	1992.	of power in
	0-	(5 marks)
	(b) What do you mean by federalism? How can you say that India is a federal country	
	33. Tertiary sector is not playing any significant role in the development of Indian Econor you agree with this statement? Give reason in support of your answer.	?
	you agree with this statement? Give reason in support of your answer.	ny'. Do (5 marks)
	SECTION-E	
	(CASE STUDY QUESTIONS)	(4X3=12)
	34. Read the given source and answer the questions that follow This type of farming is still practiced in few pockets of India. Primitive subsistence a practiced on small patches of land with the help of primitive tools like hoe, day sticks and family/ community labour. This type of farming depends upon monse fertility of soil and suitability of other environmental conditions to the crops given.	griculture is
	The main feature of commercial farming is the use of higher doses of more e.g. High yield variety seeds, chemical fertilizers, insecticides and pesticides, obtain higher productivity. The degree of commercialisation of agriculture varieregion to another. For example, rice is a commercial crop in Haryana and Punjab but is a subsistence crop.	in order to
	 34. A. Subsistence farming use kind of tools for farming. 34. B. What does commercial farming use in order to obtain higher productivity? 34. C. Write down any two differences between subsistence farming and commercial 	(1 mark) (1 mark) farming.
		(2 marks)
	35. Read the given source and answer the questions that follow	
	Communalism was and will continue to be one of the major challenge to democountry. The makers of our constitution were aware of this challenge. That is why the model of a secular state. This choice was reflected in several constitutional provides	they choose

is no official religion for the Indian state. Our constitution does not give any special status to any religion.

All societies have some form of division of labour. In most societies, occupations are passed on from one generation to other. Caste system is an extreme form of this. Caste system is a class structure which is determined by birth. Caste system was based on exclusion of and discrimination against the outcaste groups. They were subject to the inhuman practice of untouchability. That's why leaders like Jotiba Phule, Gandhiji and B.R. Ambedkar advocated and worked to establish a society in which caste inequalities are absent.

- 35. A. What is the basic principle of secular state? (1 mark) 35. B. What do you mean by caste system? (1 mark) 35. C. Who advocated establishing a society with caste inequalities? 35. D. Name any two social reformers that worked for the upliftment of untouchables. (1 mark)
- 36. Read the given source and answer the questions that follow

A developed country is a highly industrial growth oriented country where quality of life is high, presence of developed economy and advanced technology. While the developing countries are those that are in either pre industrialization or in industrialization process. These economies are mostly relies in agrarian form of economy and there per capita income is generally less than the others. Another aspect of the developed countries are their highly dominating tertiary and Quaternary Sector. While tertiary sector provides services such as entertainment, finance and retailers quaternary sector comprises of knowledge based activities like of Information technology, research and development as well as areas of consulting services etc. There is no all-

Agencies such as the United Nations, the World Bank, the World Trade Organization, and the World Economic Forum use their indicators to club developed and developing countries. For example, the UN classifies countries into low, lower-middle, upper-middle, and high-income

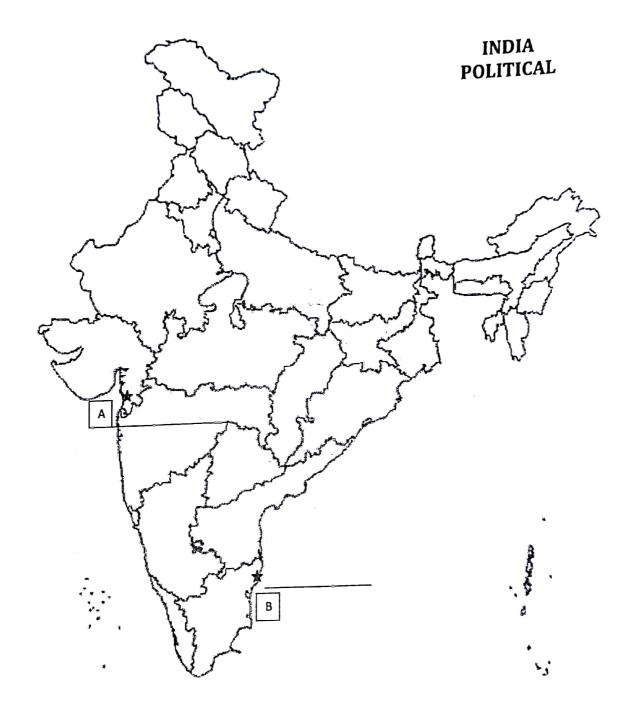
36. A. What do you understand by the term per capita income? 36. B. What is the most important attribute to compare development of the countries? 36. C. Differentiate between development and growth? (1 mark) (1 mark) (2 marks)

SECTION-F (MAP SKILL BASED QUESTIONS)

(1x5=5)

- 37 (A) Two places Aand B have been marked on the given political outline map of India. Identify with the help of the following information and write their correct names on the line drawn
 - The place where Mahatma Gandhi broke the Salt Law (a)
 - The place where Session of Indian National Congress was held in 1927
 - (B) On the same outline map of India, locate and label any three of the following with suitable
 - (a) Sardar Sarovar dam
 - (b) Hirakud Dam
 - Mark the state with Mountainous soil
 - Mark the state which is the largest producer of tea

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