

Indian School Al Wadi Al Kabir

Mid-term Examination (2025-2026)

Subject: Skill Education

Class: IX DESIGN THINKING & INNOVATION (422) Max. marks: 50

Date: 25/09/2025 Set- I Time: 2 hrs.

ANSWER KEY

- **1.** Please read the instructions carefully.
- 2. This Question Paper consists of 22 questions in two sections: Section A & Section B.
- **3.** Section A has Objective type questions whereas Section B contains Subjective type questions.
- 4. Out of the given (5 + 17 =) 22 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 2 hours.
- **5.** All questions of a particular section must be attempted in the correct order.

6. SECTION A - OBJECTIVE TYPE QUESTIONS (24 MARKS):

- i. This section has 05 questions.
- ii. Marks allotted are mentioned against each question/part.
- iii. There is no negative marking.
- iv. Do as per the instructions given.

7. SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):

- i. This section has 17 questions.
- ii. A candidate has to do 10 questions.
- iii. Do as per the instructions given.

Marks allotted are mentioned against each question/part.

$\underline{SECTION-A}$

x 4 = 4 marks)					
of A					
(d) Rahul learns from the feedback and makes his project work better					
Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)					
and is sensitive to					

3	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)
i.	(c) Creative
ii.	(d) Lens
iii.	(d) Point and shoot
iv.	(c) Shutter
v.	(a) High Shutter Speed

vi.	(c) Image processor						
4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)						
i.	(b) Megapixel						
ii.	(a) Optical Zoom						
iii.	(d) Liquid Crystal Display						
iv.	(b) Symmetry						
v.	(c) Gestalt grouping principle						
vi.	(a) Both assertion and reason are correct and the reason is the correct explanation of the assertion.						
5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)						
i.	(a) Value						
ii.	(b)Balance						
iii.	(a)Contrast						
iv.	(a)Elements of design						
v.	(a)Texture						
vi.	(b) Emphasis						

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks). Answer each question in 20 - 30 words.

6	(a)Prepare	2
	(b)Practice	
	(c)Perform	
) G 16	
7	a) Self-awareness	2
	b) Self-confidence	
	c) Self-control	
	d) Problem solving	
	e) Positive thinking	
	f) Personal hygiene and grooming	
8.	a) I am a student.	2
	b) Where are you from?	
	c) My new job is so exciting!	
	d) You should do the work now.	
9	Arrow Key	2
	One of four computer keys marked with an up, down, left, or right arrow,	
	used for moving the cursor.	
	Backspace	
	The key that you press on a keyboard to move one space backwards in a	
	document.	
	Caps Lock	
	A key on a computer keyboard that makes all the keys produce capital	
	letters.	
	Character Set	
	A complete set of letters, numbers, or symbols that can be used by a	
	computer.	
10.	Any relevant answer	2
10.	Ting rote vant answer	_
11	Design is about understanding needs and being sensitive to issues, identifying	2
11	problems that need to be solved, creating innovative, appropriate solutions and	<i>L</i>
	considering aspects of sustainability such that it makes a positive difference to life in	
	our universe.	
	our universe.	
12	Innovation involves the implementation of something new and replacing or	2
	reframing the existing mindset. Innovation is in how an invention can be used to	
	solve problems.	

13	a) Balance	2
	b) Contrast	
	c) Rhythm	
	d) Emphasis	
14	Optical Zoom is the physical zoom that camera can perform. It is better than digital zoom. Digital Zoom is the amount of zoom that camera performs digitally. Digital zoom enlarges the center of your frame by cropping.	2
15	 Advertising Industry Fashion Industry Music Industry Photo journalism Sports industry Fine art photography 	2
16	ShapeLineFormTexture	

Answer any 3 out of the given 6 questions. $(4 \times 3 = 12 \text{ marks})$

17.		4
17.	Lens: Often called the "eye" of the camera, the lens focuses light from the scene onto the image sensor. Lenses come in various types, each with a different focal length and purpose.	4
	Aperture : Located within the lens, the aperture is an adjustable opening that controls the amount of light entering the camera. It also affects the depth of field, which determines how much of the scene is in focus.	
	Shutter : This is a physical or electronic mechanism that controls the duration of time the image sensor is exposed to light. Shutter speed is a critical setting for controlling motion blur and exposure.	
	Sensor : In a digital camera, this component is responsible for converting the light that passes through the lens into electrical signals, which are then processed to form a digital image. In a film camera, this is replaced by a strip of light-sensitive film.	

18.							4
	•	Megapixel	is the number of	your pixels in th	ne sensor.		
	•	Sensor is th	he size of actual p	hysical dimensi	on in your sensor	·.	
 Megapixel alone won't give you a better image quality. Sensor size matters more than the megapixel count. More megapixel count let you print bigger sized prints. 							
	•	More mega	apixel in smaller s	sensor will result	t in more noise.		
19.							4
		•					
					>		
		-	-				
		Observe	Understand	Ideate	Build/Do	Reflect	
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	1		Cini				
		-					
		+	+			-	
		mpathise sed Finding	- Define - Analyse	- Imagine - Create	- Prototype - Give Form	- Test - Feedback	
	+1	Research - Study	- Connect - Synthesise	- Explore - Experiment	- Develop - Detail	- Outreach - Implement	
							1
20.	a) (Color: Colo	or helps establish	a mood for your	composition. W	nen light waves	4
	strike an object and reflect back to the optic nerve in a human's eyes, the						
	sensation they perceive is called color.						
	b) Point: A point is a single dot or mark that has position but is otherwise						
	limited. It is a single entity in itself and alone it can act as a focal point or a						
	stopping point in a composition.						
	c) Line: Line refers to the way that two points in space are connected. Whether						
	they're horizontal lines, diagonal lines, or vertical lines, lines can help direct						
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		•	ard a certain point			-	

- The elements of design refer to the basic building blocks of any composition. The principles of design refer to how the elements are used, like the symmetrical and asymmetrical balance, pattern, emphasis, movement, and proportion. The principles of design are a set of cardinal rules and techniques for composing the various elements of design.
- Aperture is the opening in a camera lens that controls the amount of light entering the camera, significantly affecting exposure and depth of field in photographs.

ISO stands for the International Organization for Standardization, and in photography , it indicates how sensitive your camera's sensor is to light. The ISO setting is one of t he three pillars of exposure, alongside aperture and shutter speed. Adjusting the ISO allows photographers to adapt to various lighting conditions, making it possible to ca pture well-exposed images in both bright and low-light environments.

Composition in photography is the silent language that speaks volumes through the mere placement of various visual elements within the frame. It is one of the defining techniques of visual storytelling, one that requires a delicate balance between technical precision and artistic intuition. But what is composition photography exactly? It is more than mere visual arrangement; it is the deliberate orchestration of lines, shapes, colors, and perspectives that guide the viewer's eye through a narrative, influencing emotions and perceptions.