B.Sc. (Interior Design) – First Semester COLOR IN DECOR (351.102C/351.102B)

Time: 3 hrs.

Max Marks: 50

No. of pages: 1

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART A** and **TWO** questions from **PART B**. Each question carries equal marks.

Q.1 What are primary colors? What is the difference between primary secondary and tertiary colours? Illustrate with an example. **10** 

Q.2	<ul> <li>Explain the psychology of following colors:</li> <li>a) White</li> <li>b) Purple</li> <li>c) Blue</li> <li>d) Black</li> <li>e) Yellow</li> </ul>	[CO-1][L-1] <b>2×5</b>
Q.3	<ul> <li>Where can the following colors in interiors be used?</li> <li>a) Black</li> <li>b) White</li> <li>c) Beige</li> <li>d) Teal blue</li> <li>a) Burple</li> </ul>	
	e) Purple	[UU-2][L-2] <b>2×5</b>
Q.4	Who invented color wheel? Draw and color a color wheel?	[CO-3][L-3] <b>10</b>
	<u>PART-B</u>	
Q.5	Can colors affect your mental health? Explain how?	[CO-4][L-4] <b>10</b>
Q.6	Explain any five types of color schemes.	[CO-5][L-5] <b>10</b>
Q.7	Explain the following terms: a) Value b) Hue c) Saturation d) Tints e) Shades	[CO-6][L-6] <b>2×5</b>

# End Semester Examination, Dec. 2022 B.Sc. (Interior Design) – First Semester HARD MATERIALS AND FINISHES (351.110A)

Time: 3 hrs.

Max Marks: 50

No. of pages: 1

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART A** and **TWO** questions from **PART B**. Each question carries equal marks

- Q.1 Write short notes on the following:
  - a) Paint.
  - b) Wood.
  - c) Metal.
  - d) Leather and Suede.
  - e) Radiant heat flooring.

#### 2x5

#### <u>PART-A</u>

- Q.2 Write about various flooring materials and mention any two materials in detail. **10**
- Q.3 Recommend materials that will make less impact on our environment and are made from renewable resources. **10**
- Q.4 Define 'paint'. Discuss types of paints and their impact on environment. **10**

- Q.5 a) Define 'Sustainability'. What are the three pillars of sustainability?5 b) What criteria should be considered in selecting sustainable materials?5
- Q.6 List out any two exterior materials and two interior finishing materials for a residence mentioning their components of composition.10
- Q.7 Differentiate between the following:
  - a) Ferrous and Nonferrous metals.
  - b) Leather and imitation leather and also write their impact on environment 5×2

B.Sc. (Interior Design) – Third Semester LIGHTING (351.305)

Time: 3 hrs.

Max Marks: 40

No. of pages: 1

 $2 \times 4$ 

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.

- Q.1 a) What are the facts to be considered for lighting designing by a designer?
  - b) Name different light sources used in interior designing.
  - c) How are products displayed in a showroom?
  - d) What is meant by foot candle?

### PART-A

- Q.2 What is the difference between Ambient, Accent and task light? [CO-1][L-1] 8
  Q.3 How is desired lighting quality level achieved through 2K system? [CO-2] [L-2] 8
  Q.4 Evaluate the objectives and scheme for lighting of hotels. [CO-3] [L-3] 8
  - PART-B
- Q.5 What is the importance of lighting in interior design? Why do we make a lighting plan? [CO-4] [L-4] 8
- Q.6 Explain the following: Yard light, Bollard lamp, High Mast lamp, Recessed light, Ceiling Dome.
   [CO-5] [L-5] 8
- Q.7 Draw the lighting layout for the restaurant shown as:



Required light level is 25 FC for each partition and 5 FC for corridor; each cubicle is 15\*15 sq ft. and corridor width is 6 ft. [CO-6] [L-6] **8** 

B.Sc. (Interior Design) – Third Semester LIGHTING (351.305A)

Time: 3 hrs.

Max Marks: 50

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 What is Light? Explain the lighting sources of light and different lighting fixtures. **10**

# <u>PART-A</u>

- Q.2 Enumerate difference among Ambient, Accent and task light? [CO-1][L-1] **10**
- Q.3 Write a short note on the following: Portable lights, Warm lights, Luminaires, Cool Lights, Fixed lights, Lumen.

[CO-2] [L-2] **10** 

Q.4 What do you mean by lighting fixtures? What is the difference between luminaires and lighting fixtures? [CO-3] [L-3] **10** 

# <u>PART-B</u>

- Q.5 What is the importance of lighting in interior design? Why do we make a lighting plan? [CO-4] [L-4] **10**
- Q.6 Explain the following: Yard light, Bollard lamp, High Mast lamp, Recessed light, Ceiling Dome.
  [CO-5] [L-5] 10
- Q.7 What is lighting control system, Explain the different types of light control.

[CO-6] [L-6] **10** 

B. Sc. – (Interior Design) – Third Semester **DESIGN THINKING (351.310)** 

Time: 3 hrs.

Max Marks: **40** *No. of pages: 1* 

2×4

Note: Attempt FIVE questions in all; Q.1 is compulsory. Attempt any TWO questions from PART-A and ONE question from PART-B. Marks are indicated against each question.

Q.1 Design a prototype of a study table which could be used for multipurpose, explain your prototype with help of free hand sketch and written elaborations.8

# <u>PART-A</u>

- Q.2 Express your understanding about (any four):
  - a) Creativity.
  - b) Components of creativity.
  - c) Theories of creativity.
  - d) Objectives.
  - e) Value judgments.
  - f) Defining problems.
  - g) Information gathering.
  - h) Creative incubation.
- Q.3 Explain the significance of "IDEATE" and "PROTOTYPE" in design thinking. 8
- Q.4 How do we proceed for "Basic design directions "and "themes of thinking;"in idea generation? 8

- Q.5 Why is prototype or design developing and implementation of design is so important to complete the process of design thinking?8
- Q.6 Develop a design through free hand sketch of any multi-purpose "chair" and write its concept in your understanding of design thinking.8
- Q.7 What is the definition of problem solving? What should be the nature of creative design thinking while formulating the design problem?8

B. Sc. (Interior Design) -Third Semester **DESIGN THINKING (351.310A)** 

Time: 3 hrs.

Max. Marks: 50

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Explain in detail the stages involved in design thinking process. How design thinking process helps an interior designer in designing and execution of a project.
  [CO1][L1] 10

### <u>PART-A</u>

- Q.2Discuss the importance of Brainstorming in Design Thinking Design thinking<br/>process. Support your answer with suitable examples.[CO-2][L-2] 10
- Q.3 Define the Stage 1 of Design thinking process in detail. What is the process to achieve this stage? Also, Draft a sample of empathy maps to support your answer. [CO-3][L-2] 10
- Q.4 What do you understand by the term 'Creativity' in design thinking? What re the various types of creativity. Mention any 2 theories of creativity. [CO-4][L-2] **10**

- Q.5 Design Thinking is an iterative and non-linear process. It is a problem-solving approach that has the intention to improve the end product. Justify the statement. [CO-2][L-1] **10**
- Q.6 Describe the stage of Prototyping in Design Thinking. Write short notes on:
  a) Low- fidelity prototyping.
  b) High-fidelity prototyping.
- Q.7 With the help of an example of an interior design space, prepare a framework of complete design thinking process for the proposed project (from conceptualization to final output). Sketch Bubble diagrams wherever required. [CO-6][L-1] 10

### End Semester Examination, Dec. 2022 B. Sc. (Interior Design) – Fifth Semester BUSINESS SKILL FOR DECORATORS (351.401B)

Time: 3 hrs.

Max Marks: 50

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 a) List down 10 roles of Interiors and their applications in the context of buildings?
   b) Explain the role of furniture in Interior Design.
   10x2

# <u>PART-A</u>

- Q.2 What is the various scope of work for interior designers? Name any five in depth. [CO-1][L-1] **10**
- Q.3List any five characteristics of indoor space which is the criteria for different solution<br/>in interior designing / decoration.[CO-2][L-2] 10
- Q.4 What are the various principles of composition of visual elements which are used in modulation of interior spaces? [CO-3][L-3] **10**

- Q.5 What do you understand by barrier free design? List any five in context to furniture design. [CO-4][L-4] **10**
- Q.6How can we design interior space for efficient use of lighting and cooling? List ten<br/>provisions for the same.[CO-5][L-5] 10
- Q.7 List various elements of Interior Landscape Design. Explain methods of application for any two. [CO-6][L-6] **10**

# End Semester Examination, Dec. 2022 B. Sc. (Interior Design) – Fifth Semester BUSINESS SKILL FOR DECORATORS (351.401 B)

Time: 3 hrs.

Max Marks: 50

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 a) List down 10 roles of Interiors and their applications in the context of buildings?
  b) Explain the role of furniture in Interior Design. 5x2

### <u>PART-A</u>

- Q.2 What is the various scope of work for interior designers? Name any five in depth. [CO-1][L-1] **10**
- Q.3List any five characteristics of indoor space which is the criteria for different solution<br/>in interior designing / decoration.[CO-2][L-2] 10
- Q.4 What are the various principles of composition of visual elements which are used in modulation of interior spaces? [CO-3][L-3] **10**

- Q.5 What do you understand by barrier free design? List any five in context to furniture design. [CO-4][L-4] **10**
- Q.6 How can we design interior space for efficient use of lighting and cooling? List ten provisions for the same. [CO-5][L-5]**10**
- Q.7 List various elements of Interior Landscape Design. Explain methods of application for any two. [CO-6][L-6] 10

B. Sc. (Interior Design) – Fifth Semester **ESTIMATING AND COSTING (351.510A)** 

Time: 3 hrs.		Max Marks: <b>40</b>	
Note:	Attempt <b>FIVE</b> questions in all; <b>Q.1 is compulsory</b> . Attempt any <b>TWO</b> <b>PART-A</b> and <b>TWO</b> questions from <b>PART-B</b> . Marks are indicated agains	questions from st each question.	
Q.1	<ul><li>a) What is the definition and purpose of specification writing?</li><li>b) What are estimations and what are they used for?</li></ul>	4 4	
	<u>PART-A</u>		
Q.2	What are the data requirements for a thorough estimate?	[CO-1][L-1] <b>8</b>	
Q.3	What is the method of creating specifications for the purpose of inviting	tenders? [CO-2][L-2] <b>8</b>	
Q.4	List 5-5 electrical fittings and paint kinds.	[CO-3][L-3] <b>8</b>	

- Q.5 Find an estimate for installing ceramic tiles as flooring and an 8' high dado for a 5'X9' bathroom with door and window sizes of 3'X7' and 2'X3' on one wall. Consider the usual tile pricing, labour expenses, additional materials and contingencies. [CO-4][L-4] **8**
- Q.6 Describe the following terms: contingencies, labour costs and bill of quantities. [CO-5][L-5] 8
- Q.7 Write the method for carrying out a vitrified tile flooring estimate for a 1BHK apartment with a bedroom 15'X12', a hall 18'X15', a kitchen 7'X10', and no toilet. Consider 4"skirting and regular tile prices.
  [CO-6][L-6] 8

B.Sc. (Interior Design) – Fifth Semester ESTIMATING AND COSTING (351.510A)

Time: 3 hrs.Max Marks: 40<br/>No. of pages: 1Note: Attempt FIVE questions in all; Q.1 is compulsory. Attempt any TWO questions from<br/>PART-A and TWO questions from PART-B. Marks are indicated against each question.

Q.1 a) What is the definition and purpose of estimates?b) What is the definition and purpose of writing specifications?

# <u>PART-A</u>

4x2

- Q.2 What is the procedure for writing specifications for the purpose of calling tenders? [CO-1][L-1] 8
- Q.3 List 5-5 items of Electrical Fittings and types of Paints. [CO-2][L-2] 8
- Q.4 List down the data required for carrying out a detailed estimate. [CO-3][L-3] 8

- Q.5 Describe following terminologies: contingencies, labour charges, billof quantities. [CO-4][L-4] 8
- Q.6 Write the procedure for carrying out Vitrified Tile Flooring estimate of 1BHK apartment with Bedroom size 15'X12', Hall size 18'X15', Kitchen size 7'X10' and excluding toilet. Take 4" skirting and standard price of tiles. [CO-5][L-5] 8
- Q.7 For a bathroom of size 5'X9' with door and window sizes 3'X7' and 2'X3' respectively at one wall, find the estimate for installing ceramic tiles for flooring and 8' highdado. Take standard price of tile, labor charges, other material and contingencies. [CO-6][L-6] **8**

# End Semester Examination, Dec. 2022 B.Sc. (Interior Design) – Fifth Semester ESTIMATING AND COSTING (351.510 B)

Time: 3 hrs.

Max Marks: 50

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 What is the role of estimating in interior design? What is the role of units and measurements in estimating? 10

### <u>PART-A</u>

- Q.2 Give the costing and detailing with specification for Italian marble flooring for a hall of size 18.37m × 15.48m with 100mm skirting. The same hall is having a height of 4m, and there are 02 entries of size 2m × 3m each. Also provide the estimate of false cutting (as per your choice) and wooden paneling on all four (4) walls. Put the items in BOQ.
  [CO-1] [L-1] 10
- Q.3 Explain the types of estimates:
  - a) Preliminary estimate.
  - b) Detailed estimate.
  - c) Abstract.
  - d) Revised estimate.

[CO- 2] [L-2] **2½x4** 

Q.4A cabin of size  $7m \times 5m \times 4m$  has two windows measuring  $2m \times 1.10m$  and two<br/>doors size  $1.50m \times 2.00m$  each. Prepare an estimate for interior work including,<br/>flooring, plastering and painting then put all the items in BOQ.[CO-3] [L-3] **10** 

# <u>PART-B</u>

- Q.5 Explain the "Rules of measurements" and write the "Requirement of estimation and costing".
  [CO-4] [L-4] 10
- Q.6Prepare a detailed estimate of a wall panel with PU paint and T Profiles. The Size of<br/>the panel is 8'x10'.[CO-5] [L-5] 10
- Q.7 Write short notes on the following:
  - a) Bill of quantities and abstract of Estimate.
  - b) Notice Inviting Tender.
  - c) Schedule and Non-Schedule Items.
  - d) Item of Works and products related to Interior Design.

[CO-6] [L-6] **2½x4** 

Bachelor of Architecture – Second Semester STRUCTURAL DESIGN-II (AR-205)

#### Time: 3 hrs.

Max Marks: 70

No. of pages: 2

4×7

7 7

7

7

4

Note: Attempt FIVE questions in all; Q.1 is compulsory. Attempt any TWO questions from PART-A and TWO questions from PART-B. Each question carries equal marks.

- Q.1 Explain the following terms (any seven):
  - a) Young's Modulus.
  - b) Type of stress.
  - c) Type of supports.
  - d) Type of loads.
  - e) Stress and strain.
  - f) Bending moment and shear force relationship.
  - g) Type of beam.
  - h) Moment of resistance.

#### <u>PART-A</u>

- Q.2 a) State the relationships between E, C and K.
  - b) Explain modulus of elasticity and factor of safety.
- Q.3 a) A rod of 4.5m long having diameter of 2.5m is subjected to the force as shown in the figure. If young's modulus of rod is 200Gpa then determine the deformation.



- b) State Hook's law and give all relationships between E, G, K.
- Q.4 a) Explain point of contra flexure.
  - b) Draw shear force and bending moment diagrams for the beam shown in figure given below. Indicate numerical value at all important sections.



- Q.6 a) Write the theorem of Three Moments.
  - b) A continuous beam ABC of uniform section, with span AB as 8m and BC as 6m, is fixed at A and simply supported at B and C. The beam carries a uniformly distributed load of 1 kN/m throughout its length. Find the moments along the beam and the reactions at the supports. Also draw the bending moment and shear force diagrams.

2

10



Q.7a) Explain the assumptions that are made in strength of material.7b) Explain the terminology used in strength of material.7

#### Bachelor of Architecture – Second Semester STRUCTURAL DESIGN–II (AR-205A)

#### Time: 3 hrs.

Max Marks: 40

[CO-1] [L-1]

[CO-1] [L-2]

[CO-3] [L-2]

[CO-4] [L-2]

[CO-5] [L-3]

[CO-6] [L-2]**1×8** 

No. of pages: 1

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory.** Attempt any TWO questions from **PART-A** and **TWO** questions from **PART-B.** Marks are indicated against each question.

- Q.1 Answer the following questions:
  a) Illustrate the meaning and SI Unit of Strain.
  b) State Hooke's Law.
  c) Explain the significance of Poisson's ratio in stress analysis.
  - c) Explain the significance of Poisson's ratio in stress analysis. [CO-2] [L-2]
    d) List the different types of loads acting on a beam element. [CO-3] [L-1]
  - e) Describe shear modulus of rigidity.
  - f) What do you understand by the term "Shear Force"?
  - g) With the help of neat sketches, define any two types of beams.
  - h) Differentiate between the Pratt Truss and Warren Truss.

# <u>PART-A</u>

- Q.2 Evaluate Bulk Modulus and MOR of a bar having length 2500 mm & dia. 30 mm, if the longitudinal strain in bar during a tensile stress is 4 times then the lateral strain. Find the change in volume, when the bar is subjected to a hydrostatic pressure of 100 N/mm2. Take E = 1 X 105 N/mm2. [CO-1] [L-4] 8
- Q.3 Elaborate the following terms:
  - a) Factor of safety
  - b) Relationships between E, C & K.
  - c) Young's Modulus of elasticity.

#### Q.4 For the following beam element, draw SFD and BMD:



### <u>PART-B</u>

- Q.5 A simply supported beam AB of span 4m is acted upon an UDL of 10 kN/m from a distance of 2m from left support and a point load of 20 kN acts at a distance of 1 m from right support. Analyze the beam by SFD and BMD.
- Q.6 Explain in detail the Flexural formula for a beam.
- Q.7 Illustrate the following truss by any method of analysis.



[CO-3] [L-4] **8** 

[CO-5] [L-2] 8

[CO-6] [L-2] **8** 

[CO-2] [L-2] **8** 

### End Semester Examination, Dec. 2022 B. Arch. – Second Semester SURVEYING AND LEVELLING – II (AR-210)

Time: 3 hrs.

Max Marks: 40

No. of pages: 1

Note: Attempt FIVE questions in all; Q.1 is compulsory. Attempt any TWO questions from PART-A and TWO questions from PART-B. Marks are indicated against each question.

#### Q.1 Answer the following:

- a) Define the term "Latitude" in context with traverse surveying. [CO-1] [L-1] b) Evaluate departure for a line of length 7m and bearing of 450. [CO-1] [L-4] c) Correlate the significance of "Total Station" in surveying. [CO-2] [L-2] d) Illustrate cartesian coordinates with the help of neat sketch. [CO-2] [L-3] e) What do you understand by the term "Levelling"? [CO-3] [L-2] f) Justify the importance of Reduced Level in Levelling. [CO-3] [L-2] q) What do you understand by the term "Contours"? [CO-4] [L-2] h) List the two basic remote sensing process. [CO-5] [L-1] i) Define geographic information system. [CO-6] [L-1] [CO-6] [L-2] 1×10
  - j) List the three main elements of subsystems of GIS.

# PART-A

- 0.2 If the following bearings were taken for a closed traverse, evaluate:
  - a) Corrected bearing of the lines.
  - b) Internal angles of the traverse.

Lines	FB	BB
AB	145 <sup>0</sup>	325 <sup>0</sup>
BC	23 <sup>0</sup> 15′	204 <sup>0</sup> 30′
CD	284 <sup>0</sup> 15′	104 <sup>0</sup> 30′
DE	54 <sup>0</sup> 30′	233 <sup>0</sup> 45′
EA	94 <sup>0</sup> 45′	276 <sup>0</sup>

[CO-1] [L-4] 8

- Q.3 Elaborate the various instrumental errors observed in total station. [CO-2] [L-2] 8
- O.4 Evaluate the RL of different points by "Rise and Fall Method" and show arithmetic check for the following staff readings taken from an auto level with a BM of 250 m: 3.10 m, 3.00 m, 1.60 m, 2.40 m, 1.40 m, 2.50 m, 3.90m, 1.20 m, 2.80 m, 1.65 m, 1.85 m. The instrument was shifted after 3<sup>rd</sup>, 7<sup>th</sup> and 9<sup>th</sup> reading. [CO3][L4] 8

#### PART-B

- What do you understand by "Contour Interval"? State the various properties of 0.5 "Contours" with the help of neat sketches. [CO-4] [L-3] **7**
- Q.6 What do you understand by "Remote Sensing"? Summarize the application of remote sensing in data collection and analyzing from Aerial Photogrammetry. [CO-5] [L-2] 7
- Q.7 Elaborate the significance of GIS in Surveying and Levelling. [CO-6] [L-2] **7**

### End Semester Examination, Dec. 2022 B. Arch – Third Semester STRUCTURAL DESIGN – III (AR-305)

Time: 3 hrs.

Max Marks: 60

No. of pages: 1

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.

- Q.1 Explain the following in brief *(any six):* 
  - a) Define 'pure bending' and explain it.
  - b) Write down pure bending's assumptions.
  - c) Write down all types of end condition in a column.
  - d) Define eccentric loading on a column.
  - e) What is buckling load and critical load?
  - f) What is a composite section?
  - g) Explain what is shear stress?
  - h) Explain middle-third rule.

2×6

4

### <u>PART-A</u>

- Q.2 A cast iron test beam 2 cm x 2 cm in section 1 m long is supported at the ends. It fails when a central load of 64 kg is applied. How much of uniformly distributed load will break a cantilever of same material having size 5 m wide 10 cm depth and 2 m long?
  12
- Q.3 a) Drive slope and deflection of a simply supported beam carrying an uniformly distributed load at the center using moment are method.6
  - b) A cantilever of length 2a is carrying a load of W at free end and another load W at its center. Determine slope and deflection of cantilever beam at the free end by using moment area method.
- Q.4 a) Write down equivalent length ( $I_e$ ) of:
  - i) Both end fixed.
  - ii) Both end hinged.
  - iii) One end is fixed and other end free.
  - iv) One end is fixed and other end hinged.
  - b) Determine Euler's buckling load for a column of I-section with flanges 300 mm x 10 mm and web 40 mm x 8 mm. The length of the column is 6 meter. One end is fixed and other end is hinged (take  $E = 200 \text{ kN/m}^2$ ). 8

- Q.5 A steel plate of width 100 mm and depth 300 mm is placed symmetrically below a brass plate of width 100 mm and depth 40 mm to form a composite beam. Determine the moment of resistance when the plates are allowed to bend independently and when they are glued together to bend as a composite beam.  $E_s/E_b = 2$ . Allowable stress in the steel and brass are 120 N/mm<sup>2</sup> and 60 N/mm<sup>2</sup>, respectively. **12**
- Q.6 Drive and draw the variation in shear stress of a circular section. Also compare their maximum shear stress with average shear stress.12
- Q.7 A beam is made up of channel section 100 mm x 50 mm which has a uniform thickness of 15 mm. Draw the distribution of shear stress across a vertical section if the shearing force is 100 kN. Also find the ratio between the maxi shear stress and average shear stress.

B. ARCH. – Third Semester STRUCTURAL DESIGN –III (AR – 305A)

Time: 3 hrs.

Max Marks: 40

[CO-2] [L-1]

[CO-4] [L-1]

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Answer *any four* of the following:
  - a) State the assumptions made in "Theory of Composites".
  - b) List any two advantages of Composite Beams.
  - c) Express the formula for the "Theory of Simple Bending". [CO-3] [L-2]
  - d) List any four types of cement.
  - e) What do you understand by the term "Slenderness Ratio"? [CO-5] [L-2] 2×4

### <u>PART-A</u>

- Q.2 A wooden beam 100 mm wide and 150 mm deep is simply supported over a span of 5m. If shear force at a section of the beam is 4500 N, find the shear stress at a distance of 25 mm above the neutral axis.
- Q.3 A beam of uniform rectangular section 200 mm wide and 300 mm deep is simply supported at its ends. It carries a uniformly distributed load of 9 kN/m run over entire span of 5 m. If the value of E for the beam material is 1x104 N/mm2, find:
  - a) The slope at the supports.
  - b) Maximum deflection.
- Q.4 Using Three Moment Theorem, analyse the continuous beam ABC, simply supported at A and C and continuous over support B with AB =8m and BC=6m. A uniformly distributed load of 20 kN/m is acting over the beam. The moment of inertia is "I" throughout the span. [CO-3][L-4] **8**

#### <u>PART-B</u>

- Q.5 With fixed beam AB of length 3m carries a point load of 45 kN at a distance of 2m from A. If the flexural rigidity (i.e., EI) of the beam is 1x104 kN/m2. Using Slope and Deflection Method, evaluate:
  - a) Fixed end moments at A and B.
  - b) Deflection under the load.
  - c) Maximum deflection.
- Q.6 With the help of proper representative figures, explain the term "Effective length" and express the effective length of the various end conditions for columns.

[CO-5][L-3] **8** 

Q.7 Enunciate the classification of aggregates as per construction practices. [CO-6][L-3] 8

[CO-2][L-5] **8** 

[CO-4][L-4] 8

B. Arch. - Third Semester THEORY IN ARCHITECTURE AND DESIGN -I (AR-307)

Time: 3 hrs.

Max. Marks: 60

- No. of pages: 1
- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 What are the impacts of the industrial revolution on architecture? Trace the various architects started using R.C.C. as a building material and use of technologies in architecture.
  20

### <u>PART-A</u>

- Q.2 What are spatial relationships? What are the types of relationships between spaces? **10**
- Q.3Art historian stephan Tschudi Madsen divides art noveau movement into how many<br/>classifications? Explain.10
- Q.4 Explain *any two* the famous saying and justify in architecture:
  - a) Antonio Gaudi.
  - b) F.L. Wright.
  - c) Mies Vender Rohe.

# <u>PART-B</u>

- Q.5Explain 'deconstruction movement' in detail.10Q.6Explain in brief the form, function and materialization in architecture.10
- Q.7 Compare following different theories and expressions of architects:
  - a) Art Noveau and Bauhaus.
  - b) Form follows function and function follows forms.

5×2

5×2

### End Semester Examination, Dec. 2022 B. Arch. - Third Semester THEORY OF ARCHITECTURE AND DESIGN -I (AR-307A)

Time: 3 hrs.

Max. Marks: 40

- No. of pages: 1
- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Explain the design features of the three design movements that were followed by industrial revolution with the help of sketches.8

# <u> PART – A</u>

- Q.2 What are Spatial Relationships? What are the types of relationships between spaces? 8
- Q.3 Art historian Stephan Tschudi Madsen divides Art Noveau movement into how many classifications? Explain.8
- Q.4 What are bubble diagrams? Explain any four design factors that can be dealt with during this stage. **8**

### <u>PART B</u>

- Q.5 How was the Glasgow school of art a rendition of Art Nouveau design movement? Explain with sketches.8
- Q.6 Explain in brief the form, function and materialization in architecture. 8
- Q.7 Explain the importance of the following spaces in an architectural space:a) Circulation space.
  - b) Interior space.
  - c) Activity space.

8

### End Semester Examination, Dec. 2022 B. Arch. – Third Semester PRINCIPAL OF HUMAN SETTLEMENT-I (AR-310)

Time: 3 hrs.

Max Marks: **40** *No. of pages: 1* 

8

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Discuss all river valley civilization settlements in detail.

# <u>PART-A</u>

- Q.2 What is meant by the term Prehistoric? What is Paleolithic and Neolithic style of architecture? [CO-1][L-1] 8
- Q.3 Discuss the ancient planning principles of India and present planning principles. [CO-2][L-2] **8**
- Q.4 Describe the building typologies of Mesopotamian civilization by their components. [CO-3][L-3] 8

- Q.5 What were the Salient features of Chinese architectural style? [CO-4][L-4] 8
- Q.6Why Greek architecture is known as classical architecture? Compare various<br/>classical styles with sketches.[CO-5][L-5] 8
- Q.7 Mention any four buildings of Roman style architecture with its salient features. [CO-6][L-4] **8**

# End Semester Examination, Dec. 2022 Bachelor of Architecture – Fourth Semester HISTORY OF ARCHITECTURE-II (AR-404)

Time:	3 hrs. Max Marks:	60
Note:	No. of pages Attempt <b>FIVE</b> questions in all; <b>Q.1 is compulsory</b> . Attempt any <b>TWO</b> question from <b>Part-A</b> and <b>TWO</b> questions from <b>Part-B</b> . Each question carries equal marks.	s: 1 ons
Q.1	<ul> <li>Explain the following with examples:</li> <li>a) Renaissance architecture.</li> <li>b) Early Renaissance and High Renaissance.</li> <li>c) Building materials post industrial revolution.</li> <li>d) Mies van der Rohe.</li> </ul>	3×4
Q.2	<i>PART-A</i> What is Renaissance Architecture? Explain the contribution of Renaissance architecture the domestic architecture of that period.	t in <b>12</b>
Q.3	Compare the church architectures of Romanesque and Gothic periods.	12
Q.4	Explain the various architectural features of Baroque period with the help of examples.	12
	PART-B	
Q.5	Explain a building of colonial style in New Delhi with sketches.	12
Q.6	Explain the modern architecture style and its evolution.	12
Q.7	Explain Industrial revolution.	12

Explain Industrial revolution. Q.7

#### Bachelor of Architecture – Fourth Semester STRUCTURAL DESIGN-IV (AR-405)

Time: 3 hrs

Max Marks: 60

No. of pages: 1

Note: Attempt FIVE questions in all; Q.1 is compulsory. Attempt any TWO questions from PART-A and TWO questions from PART-B. Marks are indicated against each question.

- Q.1 Explain the following:
  - a) What do you understand by the term "Limit state of collapse" and "Limit State of serviceability"? [CO-1] [L-2] b) Compare different types of forces acting on a beam. [CO-1] [L-2]
  - c) What do you understand by "Flexural Member"?
  - [CO-1] [L-1] d) With the help of a neat sketch, differentiate between simply supported beam and cantilever beam. [CO-1] [L-4]
  - e) Draw a cross sectional view of a T Beam. [CO-1] [L-2] [CO-1] [L-1]
  - f) Elaborate the various types of loads acting on a beam.
  - g) Illustrate the concept of "axially loaded and eccentrically loaded" columns. [CO1][L2] [CO-1] [L-1]
  - h) Define the term "staircase".
  - i) Differentiate between "one way and two way slab". [CO-1] [L-2] [CO-1] [L-3]**2×10**
  - i) Define slab.

# PART-A

- Explain "Stress diagram" and "Strain diagram" for a singly reinforced beam section. Q.2 [CO-1] [L-2] **10**
- Q.3 Design a reinforced concrete beam of size 300 mm X 700 mm is subjected to a bending moment of 150 KNm. Take effective cover as 40 mm. Use M20 concrete and Fe 415 steel. [CO-1] [L-3] **10**
- Plan a mechanism employed for designing of two way slabs. Q.4 [CO-1] [L-2] **10**

# PART-B

- Q.5 With the help of neat sketches, explain the various types of columns with different end conditions. [CO-1] [L-3] **10**
- Q.6 Differentiate between the design considerations adopted in the designing of square shaped column and circular – shaped column. [CO-1] [L-3] **10**
- Q.7 With the help of diagrams, classify the different types of staircases. [CO-1] [L-3] **10**

### Bachelor of Architecture – Fifth Semester **BUILDING SERVICES – II (ELECTRICAL SERVICES AND ILLUMINATION) (AR-406A)**

Time: 3 hrs.

Max Marks: 40

No. of pages: 1

- Note: Attempt FIVE questions in all; Q.1 is compulsory. Attempt any TWO questions from PART-A and TWO questions from PART-B. Marks are indicated against each question.
- Q.1 Answer the following questions:

	•	
a)	What do you understand by the term "Building Services?"	[CO-1][L-2]
b)	List different types of wiring systems.	[CO-3][L-2]

- b) List different types of wiring systems.
- c) List the factors affecting visual tasks. [CO-4][L-1]
- d) Differentiate between active and passive fire protection strategies. [CO-2][L-2] 2×4

### PART-A

- 0.2 Discuss the historical overview of water supply and how it transcends to modern context of building services. [CO-1][L-2] **8**
- Q.3 With proper diagrams, discuss the electrical distribution systems at site level.

		-	[CO-4][L-3] <b>8</b>
Q.4	Summarise the various classifications of lightings.		[CO-3][L-2] <b>8</b>

# PART-B

Q.5	Give a detailed account on active fire protection systems.	[CO-2][L-2] <b>8</b>
-----	--	----------------------

Enunciate the importance of coordination between architectural and structural layouts. Q.6

[CO-5][L-3] 8 Q.7 Discuss the design concept of modern lightings for offices and residential lightings.

[CO-3][L-2] **8** 

# End Semester Examination, Dec. 2022 B. Arch. – Third Semester

THEORIES IN ARCHITECTURE AND DESIGN-II (AR-407)

Time: 3 hrs.

Max Marks: 60

- No. of pages: 1 **ry**. Attempt any **TWO** questions from
- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1Describe the timeline of architectural movements and explain the characteristics of any<br/>two movements. Support your answers with sketches.20

# <u>PART-A</u>

Q.2 Discuss Modernism and how it manifest in architecture.
Q.3 Explain the philosophies of the following:

a) Baroque style of architecture.
b) Bauhaus style.

Q.4 Analyze the "organic architecture" of Frank Lloyd Wright by discussing his work.

Q.5	<ul><li>Discuss the works and ideologies of <i>any two</i> of the following:</li><li>a) Frank lloyd wright.</li><li>b) Walter groupis.</li></ul>	
	c) Mies vander rohe.	5×2
Q.6	Outline the typical characteristics of Neo-classical architecture.	10
Q.7	Discuss the architectural styles of St. Peter's Basilica.	10

### End Semester Examination, Dec. 2022 B. Arch. – Fifth Semester HISTORY OF ARCHITECTURE - III (AR-504)

Time: 3 hrs.

Max Marks: 60

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Explain the architectural development during Indus Valley civilization and its features?

#### 12

### <u>PART-A</u>

- Q.2 Describe the architectural features of Vedic architecture. List any two prominent site in detail. [CO-2][L-2] 12
- Q.3 Describe the characteristics and features of Buddist architecture. List any one prominent site highlighting its architectural features with the help of sketches.

[CO-3] [L-3] **12** 

Q.4 What were the Salient features of Nagara architectural style? Explain with neat sketches. [CO-4] [L-4] 12

# <u>PART-B</u>

Q.5 What are the post-independence architectural ad planning styles in India?

[CO-5] [L-5] **12** 

- Q.6 Mention the architectural feature of the Jainism style. Also, describe any one prominent site. [CO-5] [L-5] 12
- Q.7 Explain different historic architectural styles in detail. [CO-6] [L-4] **12**

### End Semester Examination, Dec. 2022 B. Arch. – Fifth Semester HISTORY OF ARCHITECTURE - III (AR-504B)

Time: 3 hrs.

Max Marks: **40** *No. of pages: 1* 

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Write short notes on the following:
  - a) Toran
  - b) Mandapa
  - c) Berm
  - d) Medhi

#### PART-A

- Q.2 Explain the architectural development during the Indus Valley civilization and its features. [CO-1][L-1] 8
- Q.3 Describe the architectural features in detail of Early and Later Vedic periods.

[CO- 2][L-2] 8

2x4

Q.4 Describe the characteristics and features of Buddhist architecture. List any one prominent site highlighting its architectural features with the help of sketches.

[CO-3][L-3] **8** 

### <u>PART-B</u>

- Q.5 What are the salient features of medieval temples? Discuss in detail the Sun Temple at Konark. [CO-4][L-4] 8
- Q.6 What are the post-independence architectural and planning styles in India?

[CO-5][L-5] 8

Q.7 Mention the architectural feature of the Jainism style. Also, describe any one prominent site. [CO-6][L-4] 8

B. Arch. – Fifth Semester STRUCTURAL DESIGN–V (AR-505B)

Time: 3 hrs.

Max Marks: 40

No. of pages: 1

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.

- Q.1 Answer the following questions:
  - a) Classify the different types of foundations. [CO-1][L-2]

b) Explain the essential requirements of a good foundation. [CO-2][L-2]

- c) Express the formula to determine "Introduced Internal Stresses" in a Prestressed Concrete Member. [CO-3][L-2]
- d) With the help of a neat sketch, illustrate the load transfer mechanism in a Two Way Slab.
   [CO-4][L-1]
- e) Differentiate between "Three Hinged Arch" and "Two Hinged Arch".

[CO-5][L-1] 2x5

# <u>PART-A</u>

Q.2 Write a note on "Site Investigation and Sub – soil Exploration" in foundation.

[CO-2][L-3] **8** 

Q.3 Evaluate the depth of the foundation for a column size of 300 mm X 450 mm, subjected to a load of 2000 kN. The width of the foundation is 4.5 m parallel to the 450 mm side of the column. Consider the Safe Bearing Capacity of the soil is 100kN/m<sup>2</sup>, M 30 Grade of Concrete and Fe 415 steel. Use Limit State Method.

[CO-1][L-5] **8** 

Q.4 With the help of a neat sketch, differentiate between the two classifications of prestressed concrete. [CO-3][L-3] 8

# <u>PART-B</u>

- Q.5 As per the guidelines of IS 456: 2000, plan a mechanism to design a Two Way Slab. [CO-4][L-3] **7**
- Q.6 Determine the Horizontal Thrust in a Two Hinged Parabolic Arch, when there is no temperature change and rib shortening is observed. [CO-5][L-5] **7**
- Q.7 As per the guidelines of IS 16700: 2017, state the general requirement of the following:
  - a) Elevation.
  - b) Plan.
  - c) Storey Stiffness and Strength.

[CO-6][L-5] **7** 

### End Semester Examination, Dec. 2022 B. Arch. - Fifth Semester BUILDING ECONOMICS AND TECHNOLOGY - I (AR-506)

Time: 3 hrs.

Max. Marks: 60

No. of pages: 1

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.

- Q.1 Explain the following *(any two):* 
  - a) Breakeven period.
  - b) Rate of return analysis.
  - c) Macro economics.

#### 10×2

# <u>PART-A</u>

- Q.2 What do you understand by building efficiency. Also write a short note on building life-cycle costs. [CO-2] [L-2] **10**
- Q.3 What do you understand by the law of demand and supply? Explain the relationship of equilibrium. [CO-1] [L-2] **10**
- Q.4 Define total initial project cost of a building and discuss the various components and their impact on cost of a building. [CO-3] [L-1] **10**

- Q.5 How cost reduction of a building is done through planning and designing specifications of building involving space optimization and structural innovations? [CO-5] [L-3] 10
- Q.6 Explain the need and the meaning of cost effective building in detail with examples. [CO-4] [L-2] **10**
- Q.7 For the given activities determines:
  - a) Critical path using PERT.
  - b) Calculate variance and standard deviation for each activity.

Activity	to	tm	tp
1-2	6	9	12
1-3	3	4	11
2-4	2	5	14
3-4	4	6	8
3-5	l	1.5	5
2-6	5	6	7
4-6	7	8	15
5-6	1	2	3

## End Semester Examination, Dec. 2022 B. ARCH – Fifth Semester BUILDING ECONOMICS AND TECHNOLOGIES- I (AR-506B)

Time: 3 hrs.

Max Marks: 40

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Explain the following *(any two):* 
  - a) Incremental Analysis.
  - b) Supply and demand analysis.
  - c) Micro economics.
  - d) Incremental Analysis.

4×2

# <u>PART-A</u>

- Q.2 Explain the concept of building economics and its importance in detail. [CO-1] [L-1] 8
- Q.3 Explain "Building as a consumers of resources and money" in details. [CO-2] [L-3] 8
- Q.4 Explain the difference between Labour intensive v/s capital intensive projects.

[CO-4] [L-2] **8** 

# <u>PART-B</u>

- Q.5 Explain important factors for comparative analysis of economics of low rise and high rise buildings.
   [CO-5] [L-1] 8
- Q.6 Describe various design factors that should be considered in economizing building economics. [CO-4][L-2] 8
- Q.7 For the given activities determine:
  - a) Critical path using PERT.
  - b) Calculate variance and standard deviation for each activity.

Activity	to	tm	$\mathbf{t}_{\mathbf{p}}$
1-2	6	9	12
1-3	з	4	11
2-4	2	5	14
3-4	4	6	8
3-5	l	1.5	5
2-6	5	б	7
4-6	7	8	15
5-6	l	2	з

[CO-6][L-5] **8** 

B. Arch. – Seventh Semester

# BUILDING SERVICES -III (LIGHTING AND ACOUSTICS) (AR-507B)

Time: 3 hrs.

Max Marks: 40 No. of pages: 1

- Note: Attempt FIVE questions in all; Q.1 is compulsory. Attempt any TWO questions from PART-A and TWO questions from PART-B. Marks are indicated against each question.
- Q.1 What is lighting design? Explain its components in detail.

# PART-A

- 0.2 Write brief notes on the following:
  - a) Halogen Lamps.
  - b) Incandescent Lamps.
  - c) C.F.L.
  - d) Sodium Vapor Lamps.
- 0.3 What is day lighting design? Explain any two methods to incorporate day lighting in ceiling design. [CO-2][L-2] 8
- Q.4 What are the three main methods of lighting a space? Explain with appropriate [CO-3][L-3] 8 diagrams.

# PART-B

- O.5 Write in detail the factors that can affect acoustics in a building. [CO-4][L-4] 8
- Q.6 Elaborate on Auditorium Design, write in brief the six main parameters for its [CO-5][L-5] 8 acoustical design.
- Q.7 Write the types of sound absorber materials used for buildings. Explain any four.

[CO-6][L-6] 8

8

[CO-1][L-1] 8

# End Semester Examination, Dec. 2022 B. Arch. – Fifth Semester LANDSCAPE ARCHITECTURE (AR-508)

Time: 3 hrs.

Max Marks: 60

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Write a brief note on 'history and evolution of environmental impact assessment'. **20**

# <u>PART-A</u>

- Q.2 Explain in details about the landscape planning principles in Mughal gardens with some examples of the gardens in the plains and the hills.10
- Q.3 Explain with illustrations, the role of patch, corridors and matrix in landscape ecology.

10

10

Q.4 What are the various green building rating systems used commonly in India? Write briefly about each. Make a comment on how green buildings are helping sustainable city development.
 10

- Q.5 'Upper spaces are components of urban landscape'- conceptualize and explain following spaces.
  - a) Streets and squares.
  - b) Gardens and ghats.
  - c) Maiden and parks.
- Q.6 Describe in detail the significance of landscape in the contemporary context. Also validation the role and responsibility of the landscape architect in this scenario. **10**
- Q.7 What is the scope of landscape in today's scenario? Why do we need to study it in architecture? 10

# End Semester Examination, Dec. 2022 B. Arch. – Fifth Semester LANDSCAPE ARCHITECTURE - I (AR-508B)

Time: 3 hrs.

Max Marks: 40

No. of pages: 1

8

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Describe the Principles and elements of Landscaping in detail.

#### <u>PART-A</u>

- Q.2
   Explain the features of various historical landscape styles with their climatic zones and terrain.

   [CO-1][L-1] 8
- Q.3 Summarize the concept of ecosystem. Also, state the Patch, Corridor and Matrix. [CO-2][L-2] 8
- Q.4 Illustrate how the landform, plant material, building design, walls, pavements, and transition spaces relate the building to the site. [CO-3][L-3] **8**

- Q.5Explain grading in context to landscaping. Also, explain the significance of<br/>landscaping on a site.[CO-4][L-4] 8
- Q.6 Justify the impact of landscape architecture on the microclimate of the site. [CO-5][L-5] **8**
- Q.7 Derive the role of landscape architect in the profession. Also, explain the major projects and scale of projects that is undertaken. [CO-6][L-6] **8**

B. Arch. – Sixth Semester

### **ESTIMATING, COSTING AND SPECIFICATIONS (AR-603)**

Time: 3 hrs.

Max marks: 60

- No. of pages: 1
- Note: Attempt FIVE questions in all; Q.1 is compulsory. Attempt any TWO questions from PART-A and TWO questions from PART-B. Marks are indicated against each question.
- Q.1 a) What is estimation w.r.t. building construction costing? Kindly explain in detail its significance from the point of view of all the stakeholders involved. 6
  - b) Explain the following in brief: i) Estimate.
    - ii) BOQ.
    - iii) Specifications. iv) Tender.
    - v) Ordinary measurement book.

# PART-A

- 0.2 Name unit of measurement of the following:
  - a) Earth filling in plinth b) Cement concrete. c) D.P.C. d) Reinforced brickwork. e) Cut stonework. f) Sawing of timber. q) Rolling shutter. h) Expansion joint. i) Mud flooring finished gobrilepping. j) Sun Yarn. 12
- Calculate the quantities of the following item of work for a two-room unit with one Q.3 bathroom, one kitchen, one store room and porch given below.
  - b) Paintwork- 3 Coats. a) Earthwork. c) Flooring (With skirting). d) External wall plaster. 12
- 0.4 a) Write general specifications of a first class building.
  - 4 b) Define rate analysis. Calculate quantity of cement, coarse sand and aggregate required for a slab of 100 cu. ft. 8

# PART-B

- Q.5 What is the significance of maintaining a material account at site? Describe steel reinforcement account in detail with table. 12
- Q.6 Write short notes on the following:
  - a) Administrative sanction
- b) Work-charged establishment
- d) Earnest money
- e) Stock account

b) Muster roll

Explain the concept of valuation. What considerations are taken while doing O.7 valuation? Explain with an example. 12

6

12

### End Semester Examination, Dec. 2022 Bachelor of Architecture - Sixth Semester HISTORY OF ARCHITECTURE-IV (AR-604)

Time: 3 hrs.

Max marks: 60

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory.** Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B.** Marks are indicated against each question.
- Q.1 Explain the following terms through sketches:
  - a) Sehan.
  - b) Minaret.
  - c) Dome.
  - d) Turret.
  - e) Pointed Arches.
  - f) Mihuab.

# <u>PART-A</u>

- 2×6
- Q.2 Explain the architectural style and features of the Qutub complex with relevant sketches.
  12
- Q.3Explain the origin and evolution of Indo-Islamic architecture in the context of Mughal<br/>Architecture.12
- Q.4 Explain the origin and evolution of colonial architecture in India in the context of the Portuguese. 12

- Q.5 Explain Mughal-Gothic Architecture using one prime example using relevant sketches. 12
- Q.6 Write in detail about the town planning of Chandigarh. 12
- Q.7 Explain B.V. Doshi`s work giving one prime example. What do you think made him Pritzker worthy? 12

### End Semester Examination, Dec. 2022 B. ARCH – Seventh Semester URBAN DESIGN (AR-703A)

Time: 3 hrs.

Max Marks: 40

No. of pages: 1

4x2

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Explain *any two* of the following with neat sketches *(if required):* 
  - a) Pod Development.
  - b) Equitable Environment.
  - c) Neighborhood unit.
  - d) Theory by Gorden Cullen.

### PART-A

- Q.2 Explain Theory of Physical Aspect- Kevin Lynch In detail with sketches. [CO-1] [L-1] 8
- Q.3Explain the buildings in space and building defining space. Justify how it impacts the<br/>urban space in totality.[CO- 2] [L-2] 8
- Q.4 Define the key attributes of the successful place. Take example of any Indian city and justify it with the attributes. [CO- 3] [L-3] 8

- Q.5Explain the term public realm. Determine different ways to improve the physical and<br/>socio cultural public realm.[CO- 4] [L- 4] 8
- Q.6 Analyze the relationship between the people and urban space in context of the social dimension.
   [CO- 5] [L-5] 8
- Q.7 Make a detailed analysis on the car free streets and squares. Formulate the ways to convert an urban space into no vehicle zone. [CO- 6] [L- 6] 8

#### End Semester Examination, Dec. 2022 B. Arch. – Seventh Semesters TRAFFIC AND TRANSPORTATION (AR-704A)

Time: 3 hrs.

Max Marks: 40

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Discuss the fundamental design consideration while designing the roads. Also state the various needs and objectives of transit oriented development.8

# <u>PART-A</u>

- Q.2 Outline the principles of traffic intersections and also elaborate the various types of intersections at grade.8
- Q.3 Differentiate the following terms:
  - a) Self explanatory roads and context based design.
  - b) Speed density and speed volume relationship.
- Q.4 Assess the various components of comprehensive urban planning and discuss the different levels of planning studies. **8**

# <u>PART-B</u>

- Q.5 Design the cross sectional elements for following roads:1 Arterial 4 lane divided roads2 Sub arterial 4 lane divided roads
- Q.6 Examine how the TOD plays a controlling force in shaping of cities? With an example of Delhi, elaborate the above statement.8
- Q.7 Outline the principle of 'rotary design'. What are the various elements of rotary intersection?

4×2

8

#### End Semester Examination, Dec. 2022 B. Arch. – Seventh Semester **TRAFFIC AND TRANSPORTATION (AR-704A)**

Time: 3 hrs.

Max Marks: 40

No. of pages: 1

- Note: Attempt FIVE questions in all; O.1 is compulsory. Attempt any TWO questions from PART-A and TWO questions from PART-B. Marks are indicated against each question.
- 0.1 Write short notes on the following:
  - a) Traffic System Management Measures.
  - b) Alignment of road and its types.
  - c) National Transit Oriented Development (TOD) Policy.
  - d) Intercity and Intra city roads.

### PART-A

- Q.2 What are the steps in Urban Transportation Planning Process? Explain with a flowchart. [CO-1][L-1] 8
- Q.3 Explain the fundamental design considerations for the design of roads. [CO2][L-2] 8
- Q.4 What are the various classifications of intersections at grade? Discuss the various types of intersections and roundabouts with sketches. [CO-3][L-3] 8

### PART-B

- Q.5 Explain the various kinds of surveys in transportation. [CO-4][L-4] 8
- Describe the characteristics of traffic flow and justify the relationship between those Q.6 parameters. [CO-5][L-5] 8
- Illustrate the major effects of mismanaged urban land sprawl on urban traffic & Q.7 transport. [CO-6][L-4] 8

2x4

B. Arch. – Seventh Semester

### HOUSING FOR URBAN POOR (AR-707A)

Time: 3 hrs.

Max Marks: **40** *No. of pages: 1* 

4x2

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.

- Q.1 Explain the following *(any two):* 
  - a) Land Pooling.
  - b) Creating slum free cities.
  - c) Theory of Location.

#### <u>PART-A</u>

- Q.2 Describe the following:
  - a) Land acquisition act, 2013.
    - b) Growth pole theory.
- Q.3 Write a brief note on Urbanization and its impact on housing statistics with current situation.
   [CO-3] [L-1] 8
- Q.4 Mention the factors affecting demand and supply of housing for urban poor.

[CO-2] [L-3] 8

[CO-6] [L-1] **4x2** 

- Q.5 List any two housing schemes currently in use for urban poor. [CO-5] [L-4] 8
- Q.6 Explain the concept of Land Economics, types of land holding and tenure systems. [CO-6][L-1] 8
- Q.7State the goal and objectives of the 'National Housing and Habitat Policy-1998'. How<br/>the governments want to create an enabling environment?[CO-4][L-1] 8

# End Semester Examination, Dec. 2022 B. Arch. – Ninth Semester SMART CITIES (AR-708A)

Time: 3 hrs.

Max Marks: 40

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 What do you understand by "SMART CITY "and explain how it works? [CO-1] [L-1] 8

#### <u>PART-A</u>

- Q.2 Discuss in detail about the core infrastructure elements in a smart city. Also, mention some of the typical features of comprehensive development in smart cities. [CO1] [L1] **8**
- Q.3Explain about the various objectives of smart city mission, India. Support your answer<br/>with an example of any one smart city of India.[CO-2] [L-2] 8
- Q.4 Describe role of energy conservation in smart cities [CO-4] [L-2] 8

- Q.5Smart cities use IoT devices such as connected sensors, lights, and meters to collect<br/>and analyze data. Explain.[CO-3] [L-2] 8
- Q.6 Discuss in detail about the national urban digital mission. Explain the various objectives of this mission which will strengthen the capacity of the urban ecosystem to solve complex problems at scale and speed. [CO-4] [L-2] 8
- Q.7Explain any pattern or trends which are being followed in different parts of<br/>in making of smart cities.the world<br/>[CO-6] [L-2] 8

### End Semester Examination, Dec. 2022 B. Arch. – Ninth Semester **TOWN PLANNING (AR-904A)**

Time: 3 hrs.

Max Marks: 40

- No. of pages: 1
- Note: Attempt FIVE questions in all; Q.1 is compulsory. Attempt any TWO questions from PART-A and TWO questions from PART-B. Marks are indicated against each question.
- Q.1 Explain the following (Attempt any two):
  - a) Urban Agglomeration.
  - b) Satellite Town.
  - c) Patrick Geddes.
  - d) C.A. Doxiadis.

### PART-A

- Q.2 Give an overview of evolution of Town planning with the help of flow charts and sketches. [CO-1][L-3] 8
- 0.3 Write a brief note on 'Slum and how is it related to urbanization'? [CO-4][L-1] 8
- Q.4 Formulate problems related to your town planning and the measure we should take.

[CO-2][L-3] 8

# PART-B

- Q.5 Classification of human settlements - based on form, use, scale, road pattern etc. [CO-4][L-1] 8
- Q.6 What do you understand by Master plan? Explain with an example. [CO-5][L-2] 8
- Q.7 Illustrate Town of India (any two):
  - a) Chandigarh.
  - b) Bhubaneshwar.
  - c) Jaipur.

[CO-6][L-6] **4x2** 

4x2

# End Semester Examination, Dec. 2022 B. Arch. – Ninth Semester DISASTER MANAGEMENT (AR-905A)

Time: 3 hrs.

Max Marks: 20

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 What is a disaster? Explain in detail types of manmade and Natural disasters. **4**

# <u>PART-A</u>

- Q.2 What are the principles of disaster management? Explain each in detail. [CO-1][L-1] 4
- Q.3 What is disaster mitigation? What task need to be accomplished for disaster preparedness for a region? [CO-2][L-2] **4**
- Q.4 What are the effects of earthquakes? Explain a shear wall with diagram. [CO-3][L-3] 4

- Q.5Elaborate on three main earthquake resistant structural techniques with appropriate<br/>diagrams.[CO-4][L-4] 4
- Q.6 What is disaster preparedness? Write about any 6 disaster response activities in brief. [CO-5][L-5] **4**
- Q.7 Elaborate on sociological and technological disasters with an example of each.
   [CO-6][L-6] 4

B. Arch. – Ninth Semester

#### **BUILDING VALUATION (AR-907A)**

Time: 3 hrs.

Max Marks: 40

No.	Of	pages:	1
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- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Explain the term valuation and principles of valuation. 8 PART-A Q.2 What is the purpose of valuation? Explain all the purposes in detail. [CO-1][L-1] 8 Q.3 Explain the law of supply and demand. [CO-2][L-2] 8 Q.4 Describe the terms in detail price, value and cost. [CO-3][L-3] **8** PA<u>RT-B</u> Q.5 Classify the types of rent in detail. [CO-4][L-4] 8 Q.6 [CO-5][L-5] 8 Illustrate the concept of net income. Q.7 Derive various types of property and the concept of lease. [CO-6][L-2] 8

# End Semester Examination, Dec. 2022 Bachelor of Architecture – Ninth Semester ADVANCE INTERIOR DESIGN (AR-910A)

Time: 3 hrs		Max Marks: 40
Note:	Attempt <b>FIVE</b> questions in all; <b>Q.1 is compulsory</b> . Attempt any <b>TWO</b> q <b>PART-A</b> and <b>TWO</b> questions from <b>PART-B</b> . Each question carries equal	<i>No. of pages: 1 questions from marks.</i>
Q.1	Illustrate the significance of interior design in house design.	8
	<u>PART-A</u>	
Q.2	List five types of paneling materials used in interior design. Explain with	details. [CO-2][L-1] <b>8</b>
Q.3	Design a roof space as terrace garden.	[CO-3][L-6] <b>8</b>
Q.4	Elaborate the cladding design for interiors.	[CO-3][L-4] <b>8</b>
	<u>PART-B</u>	
Q.5	Determine the role of lighting in interior design. Explain in detail.	[CO-4][L-3] <b>8</b>
Q.6	Summarize the principle of interior design in detail.	[CO-5][L-5] <b>8</b>
Q.7	Define role of texture in interior design.	[CO-6][L-2] <b>8</b>

### End Semester Examination, Dec. 2022 Bachelor of Architecture – Ninth Semester ADVANCE INTERIOR DESIGN (AR-910A)

Time: 3 hrs

Max Marks: **40** *No. of pages: 1* 

[CO-5][L-5] 8

8

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Each question carries equal marks.

0.1	What is r	ole of	concept	and ins	piration	in	design?
2.1	what is i		concept	unu m.	pilation		ucsigni

- Q.2 Explain the psychology of following colors:
  a) White
  b) Purple
  c) Blue
  d) Black [CO-1][L-1] 2×4

  Q.3 Explain the different types of artificial lights. [CO-2][L-2] 8
  Q.4 Explain any four interior design styles in detail. [CO-3][L-3] 8
  <u>PART-B</u>
- Q.5 Define the following terms:
  - a) Sheer Curtain
  - b) Pinch Pleats
  - c) Grommet curtains
  - d) Roman Blinds [CO-4][L-4] **2×4**
- Q.6 Explain elements of design in detail.
- Q.7 Explain the different kinds of boards available in the market for furniture making with pros and cons. [CO-6][L-6] **8**

# End Semester Examination, Dec. 2022 B. Design – First Semester COMMUNICATION - I (BDES-107/BID-DS-107)

Time: 2 hrs.

Max Marks: 50

No. of pages: 2

Note: Attempt ALL questions; **Q.1 is compulsory**. Marks are indicated against each question.

- Q.1 Choose the correct options and mark answer in the KEY.
  - 1) Please note the answers need to be marked in the answer key provided on top of the sheet ONLY.
  - 2) Use only pen (Black or Blue) to solve attempt the questions. Answer sheets with pencils will NOT be accepted.
  - 3) Each part is 1 mark each

a)	b)	c)	d)	e)	f)	g)	h)	i)	j)
----	----	----	----	----	----	----	----	----	----

ລ)	means communication w	ithout words
aj	i) Object communication	ii) Written communication
	iii) Oral communication	iv) Non- verbal communication
h)	The person who transmits the message	is called
0)	i) channel	ii) sender
	iii) receiver	iv) response
c)	aims at making people we	ork together for the common good of the
-,	organization.	gee en and
	i) communication	ii) conversation
	iii) combination	iv) connection
d)	At each stage in the process of commu	nication, there is a possibility of interference
	which may hinder the process. Such inte	erference is known as
	i) sender	ii) receiver
	iii) barrier	iv) none of them
e)	describes all forms of hu	man communication that are not verbal.
	i) prosody	ii) vocalics
	ii) haptics	iv) para language
f)	Normally communication is	_, wherein the information or message is
	transferred.	
	from one person to another.	
	i) impersonal	ii) interpersonal
	III) personal	iv) important
g)	A connects the sender to the	e receiver.
	I) Channel	II) NOISE
<b>հ</b> )	The in the usage of w	IV) TEEDDACK
1)	communication	fords may be a senious barrier to effective
	i) disturbance	ii) discrimination
	iii) disorder	iv) distortion
i)	Most of us use and	in addition to words when we speak
1)	i) words and destures	ii) destures and body language
	iii) body language and posture	iv) posture and eve gazing
i)	refers to nitch loudness du	iration intonation and tempo
J/	i) touches	ii) prosody
	iii) gestures	iv) haptics 1×10
	, ,	
		P.1.0

- Q.2 What is communication? Explain the communication process in detail. Also discuss the various barriers to communication.10
- Q.3 What is Non-verbal communication? Illustrate with examples. Explain the various components of NVC. 10
- Q.4Discuss "Words alone are not enough, our brains need visuals- The power of Visual<br/>Communication" in 200 words.10
- Q.5 Write a detailed note on presentation skills, including aspects like opening, closing, adding interest and the backstage preparation required for an effective delivery. **10**

### End Semester Examination, Dec. 2022 B. Design – First Semester ART AND DESIGN APPRECIATION - I (BDES-108)

Time: 2 hrs.

Max Marks: 50

No. of pages: 1

[CO-4] [L-2] **5×2** 

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Buddhist art refers to the rich and diverse representations of religious images, sculpture, dance, visual mythology, and symbols. Justify the statement. Support your answer with sketches.
  [CO-1] [L-1] 10

### <u>PART-A</u>

- Q.2 Explain the various features of the arts of the Indus valley civilization. Mention some examples of the famous masterpieces created during this period. [CO-2] [L-2] **10**
- Q.3Describe were the major characteristics of Greek art and the Roman arts. Write short<br/>notes on any two famous artworks of each period.[CO-3] [L-2] 10
- Q.4Discuss in detail some of the famous crafts emerged during the medieval period in the<br/>Indian history.[CO-3] [L-2] 10

- Q.5 Write short notes on *any two* of the following:
  - a) Islamic and Mughal Art.
  - b) Hindu Art.
  - c) Chinese art and Japanese Art.
- Q.6 Explain the influence of arts and architecture performed during the renaissance period on the various parts of Europe and other neighboring countries. Support your answer with examples of art creations during this periods. [CO-5] [L-2] **10**
- Q.7 Draft an artwork and write in detail about any one of the various Art forms of the different regions of Indian History. [CO-5] [L-2] **10**

# End Semester Examination, Dec. 2022 B. Design – First Semester COLOR THEORY (BDES-109)

Time: 2 hrs.

Max Marks: 50

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 "Different colors also carry different emotional symbolism." Justify the statement by expressing the meaning of following colors:
   RED, ORANGE, YELLOW, GREEN, BLUE, PURPLE, BLACK, WHITE, GREY, BROWN

[CO-3] [L-6] **10** 

# <u>PART-A</u>

- Q.2 What are the three main shapes you can use in your designs? Explain the combination of shapes and colors hold different meanings and moods. [CO-5] [L-6] **10**
- Q.3 Why was color invented by humans? Why are there only six fundamental colors: red, orange, yellow, green, blue, and violet? [CO-2] [L-6] **10**
- Q.4 Why are red, yellow, and blue the primary colors in painting but computer screens use red, green, and blue? Explain in detail with example. [CO-1] [L-6] **10**

- Q.5What is the relationship between figure-ground and positive and negative shapes?<br/>Support your answer with proper example.[CO-4] [L-6] 10
- Q.6 How do we define rhythm visually? Discuss the primary types of rhythm with example of each. [CO-4] [L-6] **10**
- Q.7 What do you understand by the term typography draw and explain the anatomy of typography? [CO-6] [L-6] **10**

B.DESIGN (Animation and VFX) – Third Semester HISTORY OF ANIMATION (BDES-AN-308)

Max Marks: 50

No. of pages: 1

Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.

- Q.1 Select the correct answer:
  - a) Who was the first person to draw cartoons to create animation?
    - i) Walt Disney ii) Emile Cohl
    - iii) William Hanna iv) Winsor Mc Kay
  - b) What is the story Board?
    - i) A perforated strip ii) A story drawn strip
    - iii) A type of Camera
- iv) An optical board

iv) The story board

- c) What was invented by the Max Fleisher in 1915?
  - i) The peg bar ii) The Movie camera
  - iii) The Rotoscope
- d) Which animation tool is used by manual drawing?
  - i) Flip book ii) 3d maya
  - iii) Adobe flash iv) Camera
- e) Which films were made by Pixar?
  - i) Cars ii) Toys story
  - iii) Sea food iv) Bugs life`

[CO-1][L-6] **2x5** 

[CO-2][L-5] **10** 

Q.2 Explain in detail about the five pioneers before Walt Disney in the field of animation. [CO-2][L-5] **10** 

### <u>PART-A</u>

- Q.3 What are the early ways of showing motions?
- Q.4How many principles the two authors of the book "The Illusion of Life Disney<br/>Animation" came up with?[CO-3][L-5] 10
- Q.5 Illustrate the Animation History and its revolution in a timeline after Walt Disney. [CO-2][L-6] **10**

#### <u>PART-B</u>

- Q.6 Explain the first law of cartoon physics. Discuss its rise and fall in your own words. [CO-4][L-5] **10**
- Q.7 Write shot notes on the following:
  - a) The Story of Indian Animation.
  - b) Remembering the Father of Indian Animation.
  - c) The rise of the industry in India.
  - d) Animation and Advertisement.
  - e) The rise of anime in India again.

[CO-5][L-6] **2x5** 

### End Semester Examination, Dec. 2022 B. DESIGN – Third Semester ANIMATION TECHNIQUES (BDES-AN-309)

Time: 3 hrs.

Max Marks: 50

- No. of pages: 1
- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 How does the size of a rubber ball affect the height of its bounce? Explain with the help of proper timeline of rubber ball bouncing with in-betweens. [CO-6][L-6] **10**

### <u>PART-A</u>

- Q.2 What does anticipation do for animation? Which is the opposite of anticipation in animation? Express in your own words. [CO-2][L-6] **10**
- Q.3 Explain the purpose of the squash and stretch principle with the help of a 'Lamp' as a character. [CO-3][L-6] **10**
- Q.4 How can we apply exaggeration in our animation? Support your answer with a Tom and Jerry cartoon scene illustration. [CO-4][L-6] **10**

- Q.5 What is the principle of timing? How does timing affect the personality and nature of an animation? [CO-4][L-6] **10**
- Q.6 What is the difference between straight-ahead and pose-to-pose? Explain with the help of a character pose and action. [CO-5][L-6] **10**
- Q.7 What is animation and its principle? Who invented the 12 principles of animation? Who made the first animation in the world? Explain in detail. [CO-1][L-6] **10**

### End Semester Examination, Dec. 2022 B. DESIGN – Third Semester ANIMATION TECHNIQUES (BDES-AN-309)

Time: 3 hrs.

Max Marks: **50** *No. of pages: 1* 

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 How does the size of a rubber ball affect the height of its bounce? Explain with the help of proper timeline of rubber ball bouncing with in-betweens. [CO-6][L-6] **10**

### <u>PART-A</u>

- Q.2What does anticipation do for animation? Which is the opposite of anticipation in<br/>animation? Express in your own words.[CO-2][L-6] 10
- Q.3 Explain the purpose of the squash and stretch principle with the help of a 'Lamp' as a character. [CO-3][L-6] 10
- Q.4 How can we apply exaggeration in our animation? Support your answer with a Tom and jerry cartoon scene illustration. [CO-4][L-6] **10**

- Q.5 What is the principle of timing? How does timing affect the personality and nature of an animation? [CO-4][L-6] **10**
- Q.6 What is the difference between straight-ahead and pose-to-pose? Explain with a help of a character pose and action. [CO-5][L-6] **10**
- Q.7 What is animation and its principle? Who invented the 12 principles of animation? Who made the first animation in the world? [CO-1][L-6] **10**

# End Semester Examination, Dec. 2022 B. DESIGN (Animation and VFX) – Fifth Semester WRITING FOR ANIMATION (BDES-AN-504)

Time: 2 hrs.

Max Marks: 50

No. of pages: 1

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 Write in detail about the entire process and methods for better story telling. **10**

# <u>PART-A</u>

- Q.2 What are the differences for telling a story for fiction or an advertisement?
- Q.3 Explain the steps for writing a fiction vs non- fiction theme & plot.
  - [CO-2][L-5] **10**
- Q.4 Explain the types of experimental story telling. [CO-3][L-6] **10**

# <u>PART-B</u>

Q.5 Create a short story out of below image and draw the storyboard. [CO-4][L-5] **10** 



Q.6 Write short on:

- a) Dialog.
- b) Sequence.
- c) Shot.
- d) Outline.
- e) Premise.

[CO-5][L-6] **10** 

Q.7Take your favorite character and a story and write dialogues for a scene. Explain<br/>every single detail of environment.[CO-6][L-6] 10

# End Semester Examination, Dec. 2022 B.DESIGN (Animation and VFX) – Fifth Semester ART OF CINEMATOGRAPHY (BDES-AN-505)

Time: 2 hrs.

Max Marks: **50** *No. of pages: 1* 

- Note: Attempt **FIVE** questions in all; **Q.1 is compulsory**. Attempt any **TWO** questions from **PART-A** and **TWO** questions from **PART-B**. Marks are indicated against each question.
- Q.1 What is cinematography and what does a cinematographer do? Explain in your own words.
  10

# <u>PART-A</u>

- Q.2 Write about all the cinematic technique used in cinematography. [CO-2][L-5] **10**
- Q.3 Justify these two phrases and express in your own words:
  - a) Photography as Art.
  - b) Images as Communication.
- Q.4 Why do filmmakers break the 180-degree rule? Explain 30 degree rule in Film.

[CO-4][L-5] **10** 

# <u>PART-B</u>

- Q.5 Explain in detail about the history of ARRI cameras in a century of cinema. [CO-3][L-6] **10**
- Q.6 Write short notes on:
  - a) The Crane shot.
  - b) The Handheld shot.
  - c) The Steadicam shot.
  - d) The Aerial shot.
  - e) Static shots.

[CO-3][L-6] **2x5** 

Q.7 How would you describe 3-point lighting? Draw and explain the workflow.

[CO-5][L-6] **10** 

[CO-1][L-5] **5x2** 

# End Semester Examination, Dec. 2022 B.Sc. (Information Technology) – Fifth Semester MANAGEMENT INFORMATION SYSTEMS (INFO712A)

Time:	B hrs. Max. Marks: 100
Note: .	No. of pages: 2 Attempt <b>FIVE</b> questions in all; <b>Q.1 is compulsory</b> . Attempt any <b>TWO</b> questions from <b>PART-A</b> and <b>TWO</b> questions from <b>PART-B</b> . Marks are indicated against each question.
Q.1	Answer the Following questions: a) Which phase is not available in software life cycle? i) Testing ii) Maintenance iii) Coding iv) Abstraction [CO1][L1] b) System development is a i) development of SRS of a system. ii) process of successive changes of system from now and changes
	<ul> <li>ii) process of successive changes of system from new and changed requirement</li> <li>iii) i) and ii)</li> <li>d) None of the above.</li> <li>[CO1][L1]</li> <li>is the process of identifying a problem, developing alternative solutions, choosing and implementing.</li> <li>i) Decision-making</li> <li>ii) Business</li> </ul>
	iii) Value iv) Re-engineering [CO2][L1] e) Using a "business performance management software" to monitor performance
	<ul> <li>i) reduces costs.</li> <li>ii) adds value.</li> <li>iii) manages risks</li> <li>iv) create a new opportunity.</li> <li>v) both i &amp; ii.</li> <li>Vi) none of the above.</li> <li>i) both i &amp; ii.</li> <li>Vi) none of the above.</li> <li>i) Data to information to knowledge.</li> <li>ii) Data to knowledge to information.</li> <li>iii) Knowledge to data to information.</li> <li>iv) Information to data to knowledge</li> <li>v) None of the above</li> </ul>
	<ul> <li>vi) None of the above.</li> <li>vi) Both A &amp; B. [CO1][L1]</li> <li>g) The first step in the systems development life cycle (SDLC) is</li> <li>i) Design</li> <li>ii) Analysis</li> <li>iii) Problem/Opportunity Identification</li> </ul>
	iv) Development and Documentation [CO1][L1] g) Which of the following is not a characteristic of good information? i) interchangeability ii) relevance
	<ul> <li>iii) cost effectiveness iv) timeliness [CO2][L1]</li> <li>n) The basic component(s) of DSS is (are)</li> <li>i) database ii) model base</li> <li>iii) dss software system iv) all of the above</li> </ul>
	<ul> <li>i) dss software system</li> <li>ii) The effectiveness of marketing information system depends to a longer extent on from market place to the firm.</li> <li>ii) advertising</li> <li>iii) feedback</li> <li>iii) marketing</li> </ul>
	<ul> <li>in) marketing (v) promoting</li> <li>The information of MIS comes from the</li> <li>i) internal source (i) external source</li> <li>iii) both internal and external source</li> <li>iv) none of the above [CO2][L1] 2×10</li> </ul>

# <u> PART – A</u>

- Q.2 a) Explain the role of Information Technology in Industry 4.0.
  - b) Differentiate between the following:
    - i) Data and Information
    - ii) Information and Knowledge
- Q.3 a) "If businesses choose not to behave ethically". An angry, not always technically Sophisticated and skeptical public will shut down legitimate use of technology. Comment on this statement using some real life examples.

[CO4][L5] 10

b) Explain with the help of real life examples where IT technologies like Cloud, Mobile computing, Data Mining etc have helped in the growth of businesses.

[CO3][L3] **10** 

Q.4 a) "Sometimes humans act as hindrance in a system implementation". Do you agree with this statement? Give reasons in support of your answer.

[CO2][L3] 10

b) Explain the benefits enjoyed by companies out of the use of Internet.

[CO3][L2] 10

# <u>PART B</u>

- Q.5 a) Explain with the help of real life examples where BI (Business Intelligence) tools have helped in the growth of businesses. [CO5][L3] **10** 
  - b) "Data Pre-Processing is the most crucial step in data mining and if not done properly may lead to incorrect decisions". Justify this statement by giving two real life examples where data mining tools are being used. [CO5][L5] 10
- Q.6 a) Give at least two tools and their applications in decision making. [CO6][L3] **10** 
  - b) Suppose you are going for some PG programme and have to decide on College/University for taking admission. Explain all the steps you will follow for Rational decision making.
     [CO6][L2] 10
- Q.7 Give the applications of information systems in the following areas:
  - a) Healthcare.
  - b) Supermarket.

[CO6][L3] **10** 

[CO1][L5] 10

[CO1][L4] 5×2