Ph.D. Entrance Exami	nation, October - 2017
SUBJECT CODE : 57	QUESTION BOOKLET NO.
Entrance Reg. No.	04412
	I BOOKLET s given in the Question Booklet)
SUBJECT : URBAN & REGIO	NAL PLANNING
MAXIMUM MARKS : 100	MAXIMUM TIME : THREE HOURS
(Including initial 10 minutes f	or filling O.M.R. Answer sheet)
<ul> <li>booklet and fill up the general information in the O.M. of alphabet and signs as instructed, you will be prescoring of your Answer Sheet.</li> <li>4. During the examination: <ul> <li>a) Read each question carefully.</li> <li>b) Determine the Most appropriate/correct answer question.</li> <li>c) Completely darken the relevant circle against the</li> </ul> </li> </ul>	nswer for Question No.8, then darken against SI. No.8 of
Question No. 8. A B 🗩 D	(Only example) (Use Ball Pen only)
	e provided in the Question Booklet. <u>Rough work should</u>
<ol> <li>If more than one circle is darkened for a given quest be given. See the example in the O.M.R. Sheet.</li> </ol>	stion, such answer is treated as wrong and no mark will
<ol> <li>The candidate and the Room Supervisor should sig</li> <li>Candidate should return the original O.M.R. Answer after the examination.</li> </ol>	n in the O.M.R. Sheet at the specified place. Sheet and the university copy to the Room Supervisor
	candidate copy of the O.M.R. Sheet.
9. Candidate can carry the question booklet and the c	succed in side the successing time half
<ol> <li>9. Candidate can carry the question booklet and the carry the calculator, pager and mobile phone are not allowed and the candidate is found committing malpractice, sure to the course and action against such candidate and the course and th</li></ol>	ich a candidate shall not be considered for admission will be taken as per rules.
<ol> <li>9. Candidate can carry the question booklet and the carry the calculator, pager and mobile phone are not allowed and the candidate is found committing malpractice, sure to the course and action against such candidate and the course and th</li></ol>	uch a candidate shall not be considered for admission will be taken as per rules. <u>L UP THE O.M.R. SHEET</u>
<ol> <li>9. Candidate can carry the question booklet and the carry the calculator, pager and mobile phone are not allowed to the course and action against such candidate is <u>INSTRUCTIONS TO FIL</u></li> <li>1. There is only one most appropriate/correct answer</li> </ol>	uch a candidate shall not be considered for admission will be taken as per rules. <u>L UP THE O.M.R. SHEET</u>



SEAL

 $[50 \times 1 = 50]$ 

### PART - A

### Each question carry one mark.

- 1) SWOT analysis is used for examining a situation's inherent
  - A) Strength, Wastefulness, Opportunity and tactfulness
  - B) Sanction, Weakness, Ownership and Threat
  - C) Strength, Weakness, Opportunity and Threat
  - D) Support, Wastefulness, Ownership and Threat
- 2) Match the concepts in Group-I with the personalities in Group-II Group I Group-II
  - P. Linear City
  - Q. Radiant City
  - R. Garden City
  - S. Arcology

- Lecorbusier
- 2. Paolo Soleri

1.

- 3. Louis Kahn
- 4. Soria Y Marta
- 5. Ebenezer Howard

- A) P-4, Q-3, R-5, S-1
- B) P-3, Q-1, R-4, S-2
- C) P-4, Q-1, R-5, S-2
- D) P-1, Q-5, R-2, S-4
- 3) Match the standard safety colour codes of Group I with their corresponding usage in Group II
  - Group I
  - P. Blue
  - Q. Green
  - R. Red
  - S. Yellow

- Group II
- 1. Biodegradable waste
- 2. Fire Protection Equipment
- 3. Recyclable waste
- 4. Stumbling against Hazards
- 5. Radiation standards

- A) P-3, Q-1, R-2, S-4
- B) P-3, Q-4, R-5, S-1
- C) P-1, Q-3, R-2, S-5
- D) P-1, Q-5, R-2, S-4
- 4) U.R.D.P.F.I stands for
  - A) Urban & Rural Development Policy Formulation & Implementation.
  - B) Urban & Regional Development Plans from India.
  - C) Union Rural Development Planning Formation & Information.
  - D) Urban & Regional Development Plans Formulation & Implementation.

- 5) Roads one over the other without intersection is called
  - A) Arterial roads
  - B) Grade separation/Flyover
  - C) Junction
  - D) Highways
- 6) Garden City Concept was introduced by
  - A) Le Corbusier B) Eben
  - C) Mumford Lewis

- Ebenezer Howard
- D) Christaller
- 7) Transfer of Development Right (TDR) is a tool used for
  - A) Human Development
  - B) Land Development
  - C) Economic Development
  - D) Infrastructure Development
- 8) In India, one of the Slum Improvement initiatives is
  - A) Special Residential Zone
  - B) Valmiki Ambedkar Malin Basti Awas Yojana
  - C) Indira Awas Yojana
  - D) Eco Housing
- 9) Alfred Meber formulated
  - A) Location of commercial growth centres
  - B) A least cost theory of industrial location
  - C) Location of gardens
  - D) Location of Commercial Business District
- 10) Central place theory was created by
  - A) Le Corbusier B) Lucio Costa
  - C) Walter Christaller D) Konigsberger
- 11) In PIEV Theory of transportation the letters 'P', 'I', 'E' & 'V' stand for
  - A) Passenger, Intermediate, Elevation & Volume
  - B) Population. Imagination, Exact location & Volition
  - C) Perception, Intelectual, Emotion & Volition
  - D) Public, Inspiration, Entertainment & Venue

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(P.T.O.)

12) 'Agora' was provided in Greek towns as a place of

- A) Worship B) Drama
- C) Sports D) Meeting
- 13) Which one of the following is biodegradable
  - A) Detergent B) Leather
  - C) Recycled plastic D) Aluminium foil
- 14) Acropolis in Greece is
  - A) Court
  - B) Citadel on a high hill
  - C) Temple or place of worship
  - D) Sports Arena
- 15) Match the schemes in Group I with the specific targets in Group II Group I Group II
  - P. JNNURM
  - Q. IAY
  - R. PURA
  - S. NREGA

- 1. Urban Amenities for Rural Areas
- 2. Infrastructure and slum upgradation
- 3. Rural Employment
- 4. Land Acquisition
- 5. Housing for BPL families

- A) P-2, Q-5, R-1, S-3
- B) P-5, Q-2, R-1, S-3
- C) P-5, Q-2, R-3, S-4
- D) P-2, Q-5, R-3, S-4
- 16) The 73<sup>rd</sup> and 74<sup>th</sup> Constitutional Amendments pertain to
  - A) Abolishing the Urban Land Ceiling Act
  - B) Providing restricted role to local courts to settle rural disputes
  - C) Providing more responsibility to municipal and local bodies for planning and development
  - D) Providing right to information for general public

- 17) A 'cul-de-sac' is a street where
  - A) Only two wheelers are permitted
  - B) Through traffic is discouraged
  - C) Pedestrians are not permitted
  - Dead end of the road D)
- 18) Development that meets the needs of the present generation without compromising the ability of future generations to meet their own needs is termed by UNDP is
  - A) **Comprehensive Development**
  - B) Equitable Development
  - C) Human Development
  - D) Sustainable Development
- 19) Identify the urban functions that are included under social Infrastructure
  - P. Schools and Colleges
  - Hospitals and Clinics 0.
  - R Roads and Footpaths
  - S. Parks and Plazas
  - Τ. Malls and Markets
  - U. **Community Centres**
  - A) P, Q, S, U
  - C) P. R. S. U

B) P. Q. S. T D) O, S, T, U

20) The correct sequence in four stage model used for transportation planning is

- Trip generation, Trip distribution, Modal split, Trip assignment A)
- B) Trip generation, Trip assignment, Modal split, Trip distribution,
- C) Trip distribution, Modal split, Trip assignment, Trip generation
- D) Trip generation, Trip distribution. Trip assignment, Modal split
- 21) The KYOTO Protocol 2003 addressed the issue of
  - A) Bio-diversity Green House Gases B)
  - C) Wetlands D)
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(P.T.O.)

- 22) The principle of Solid Waste Management involves
  - A) Reproduce, Reuse, Recycle
  - B) Recycle, Replenish, Reuse
  - C) Reduce, Reuse, Reproduce
  - D) Reduce, Reuse, Recycle
- 23) Which of the following is not included in UDPFI guidelines for urban development?
  - A) Perspective Plan B) Development Plan
  - C) City Development Plan D) Annual Plan

24) Under URDPFI Guidelines 'Megapolis' has a population range of

- A)20000-50000B)1,00,000 5,00,000
- C) 50,00,000 1,00,00,000 D) More than 1,00,00,000
- **25)** The instrument that provides standards for land development by indicating lot sizes and layouts is
  - A) Zoning Regulations
  - B) Land Use Control
  - C) Building Byelaws
  - D) Sub-division Regulations
- 26) Which of the following is NOT a criterion for defining urban areas in India
  - A) Population size
  - B) Percentage of made working population engaged in non-agricultural pursuits
  - C) Density of population
  - D) Percentage of pucca houses

- 27) Signal phasing in transportation system refers to
  - The number of combinations of traffic movements served through a A) signalised intersection
  - The distance between signalised intersections B)
  - Phase of electric power required to make the signals operational C)
  - Relative placements of red, green and amber lights on a signal post D)
- 28) Match the following

Group I

- Nile Valley Civilisation P
- Indus Valley Civilisation Q.
- Euphrates and Tigris Valley R. civilisation
- Yellow River Civilisation S.
- A) P-1, O-2, R-3, S-4
- B) P-3, Q-2, R-4, S-1
- P-4, Q-3, R-2, S-1 C)
- D) P-4, O-2, R-3, S-1

29) Neighbourhood Theory was proposed by

- Mumford Lewis B) A)
- Ullman D) **Clarence** Perry C)
- 30) Multiple nuclei theory was proposed by
  - Lucio Costa Lecorbusier B) A)
  - Homer Hoyt D) Harris and Ullman C)

[7]

Patrick Geddes

- Group II
- 1. Shang
- 2. Harappa
- 3. Akhenaton
- 4. Babylon

(P.T.O.)

- 31) Zoning Regulation does not deal with
  - A) Land Use B)
  - C) **Building materials** D) Reserved land areas
- 32) Site plan is drawn to a scale of
  - A) 1:500 1:20000 B)
  - C) 1:40000 1:100000 D)
- 33) 'RERA' in urban development stands for
  - A) **Rear Entrance Rear Access**
  - B) Real Energy Reading Agent
  - Real Estate Regulatory Authority C)
  - Rose Extract Real Estate Apparatus D)
- 34) Vice President of India is
  - A) Nirmala Sitharaman B)
  - Bandaru Dattatreya C) D)
- 35) ECBC stands for
  - A) Electrical Conduit in Building Construction
  - Energy Conservation Building Code B)
  - Electrical Credit in Building Code C)
  - Energy Credit in Building Construction D)
- 36) BRTS connected to transport system stands for
  - A) **Building Regulation Technical System**
  - B) Bus. Rapid Transit System
  - C) **Bay Recreational Transit Spaces**
  - None of the above D)

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[8]

- Manohar Parrikar
- Venkaiah Naidu

- Height

37) FSI referred to in building plan means

- A) Floor System Integration Regulations
- B) Floor Space Index
- C) Flat Space Integration
- D) Flat Space Idea

**38)** Present Urban Development Minister of India is

- A) Hardeep Singh B) Harshvardhan
- C) Rajvardhan Singh Rathore D) Arun Jaitley

39) What does AMRUT scheme stands for

- A) All Major Regional Urban Trust
- B) Ahmadabad Metropolitan Regional Union Towns
- C) Atal Mission for Rejuvenation and Urban Transformation
- D) A Mission for Rivers Under Tidal effect

40) Aerial photography is a useful tool to obtain

- A) Land contour data B) Land cover Data
- C) Land ownership data D) Land price data

41) Karnataka Town and Country Planning Act was promulgated in the year

- A) 1957 B) 1961
- C) 1975 D) 1990

#### **42)** UNDP stands for

- A) United Nations Development Programme
- B) United National Declaration Policy
- C) United National Determination Policy
- D) United National Data Policy

43) Squatter settlements are the lands belonging to

- A) Squatters Public B)
- C) Ancestors D) Relatives

44) The Bangalore Mahanagar Palika byelaws came into operation in the year

- A) 1990 B) 2000
- 2004 C) 2010 D)
- 45) Nagar Panchayats and District Planning Committees in India were introduced as a result of
  - A) National Urban Policy
  - Jawaharlal Nehru National Urban Renewal Mission B)
  - Electoral Reforms C)
  - D) Constitution (73<sup>rd</sup> and 74<sup>th</sup> Amendment) Act

## 46) Chandigarh was planned by

- A) Konigsberger Patrick Geddes B)
- C) Lecorbusier D) Mewada
- 47) Planning Commission is renamed as
  - **Planning Committee** A) Neeti Ayog B)
  - Planning Code C) None of the above D)

48) 'NHB' a subsidiary of Reserve Bank of India is stands for

- A) National Hydro Board B)
- C) National Housing Board D) None of the above

# 49) ECS in Building byelaws/Regulation Stand for

- **Equivalent Cluster Space** A)
- C) Exact Code for Structures
- 50) Camber in roads is
  - A) Cross slope
  - C) Surface of road

- Equivalent Car Space B)
- D) **Electronic Clearance Scheme**
- B) Length of road
- Street light D)

- National Housing Bank

### PART - B

 $[5 \times 10 = 50]$ 

### Answer all five questions. Each question carry ten marks.

1) Enlist the planning survey required for preparation of Master Plan. [10]

OR

Explain FAR and Coverage. What is the importance of FAR and Coverage in land use planning?

 Define concept of a "Region". What are the various steps involved in the process of Regional Planning? [10]

OR

Explain the causes of air pollution and its effect? What is its effect on global warming?

 Discuss the importance of multilevel planning for vertical and horizontal integration in India. [10]

OR

Explain the strategies of National Housing Bank in promoting housing stock in India and Explain the role of private sector housing.

 Describe various surveys necessary to undertake traffic and transportation and what are the benefits of GIS and Remote Sensing application in Transportation Planning. [10]

OR

What are the functions to be performed by ULB's as per 74<sup>th</sup> CAA and explain its implications in the State of Karnataka.

 Discuss the metropolitan Regional planning strategies with an example of any one metropolitan city of India. [10]

OR

What is urban poverty? Discuss the salient features of urban poverty Alleviation programmes in India.



[11]

	ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಸೂಚನೆಗಳು	
1.	ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆಯ ಜೊತೆಗೆ 50 ಪ್ರಶ್ನೆಗಳನ್ನು ಹೊಂದಿರುವ ಮೊಹರು ಮಾಡಿದ ಪ್ರಶ್ನೆ	
	ಪುಸ್ತಕವನ್ನು ನಿಮಗೆ ನೀಡಲಾಗಿದೆ.	
2.	ಕೊಟ್ಟಿರುವ ಪ್ರಶ್ನೆ ಮಸ್ತಕವು, ನೀವು ಪರೀಕ್ಷೆಗೆ ಆಯ್ಕೆ ಮಾಡಿಕೊಂಡಿರುವ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದ್ದೇ	
	ಎಂಬುದನ್ನು ಪರಿಶೀಲಿಸಿರಿ.	
3.	ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯ ಮೊಹರನ್ನು ಜಾಗ್ರತೆಯಿಂದ ತೆರೆಯಿರಿ ಮತ್ತು ಪ್ರಶ್ನೆಪತ್ರಿಕೆಯಿಂದ ಓ.ಎಂ.ಆರ್. ಉತ್ತರ	
	ಹಾಳೆಯನ್ನು ಹೊರಗೆ ತೆಗೆದು, ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿ ಸಾಮಾನ್ಯ ಮಾಹಿತಿಯನ್ನು ತುಂಬಿರಿ.	
	ಕೊಟ್ಟಿರುವ ಸೂಚನೆಯಂತೆ ನೀವು ನಮೂನೆಯಲ್ಲಿನ ವಿವರಗಳನ್ನು ತುಂಬಲು ವಿಫಲರಾದರೆ, ನಿಮ್ಮ	
	ಉತ್ತರ ಹಾಳೆಯ ಮೌಲ್ಯಮಾಪನ ಸಮಯದಲ್ಲಿ ಉಂಟಾಗುವ ಪರಿಣಾಮಗಳಿಗೆ ವೈಯಕ್ತಿಕವಾಗಿ	
	ನೀವೇ ಜವಾಬ್ದಾರರಾಗಿರುತ್ತೀರಿ.	
4.		
	a) ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಯನ್ನು ಜಾಗ್ರತೆಯಿಂದ ಓದಿರಿ.	
	b) ಪ್ರತಿ ಪ್ರಶ್ನೆಯ ಕೆಳಗೆ ನೀಡಿರುವ ನಾಲ್ಕು ಲಭ್ಯ ಆಯ್ಕೆಗಳಲ್ಲಿ ಅತ್ಯಂತ ಸರಿಯಾದ/ ಸೂಕ್ತವಾದ	
	ಉತ್ತರವನ್ನು ನಿರ್ಧರಿಸಿ.	
dia.	c) ಓ.ಎಂ.ಆರ್. ಹಾಳೆಯಲ್ಲಿನ ಸಂಬಂಧಿಸಿದ ಪ್ರಶ್ನೆಯ ವೃತ್ತಾಕಾರವನ್ನು ಸಂಪೂರ್ಣವಾಗಿ ತುಂಬಿರಿ.	
	ಉದಾಹರಣೆಗೆ, ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿ ಪ್ರಶ್ನೆ ಸಂಖ್ಯೆ 8ಕ್ಕೆ "C" ಸರಿಯಾದ ಉತ್ತರವಾಗಿದ್ದರೆ, ನೀಲಿ/ಕಮ್ಸ	
	ಬಾಲ್ ಪಾಯಿಂಟ್ ಪೆನ್ ಬಳಸಿ ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆಯ ಕ್ರಮ ಸಂಖ್ಯೆ 8ರ ಮುಂದೆ ಈ	
	ಕೆಳಗಿನಂತೆ ತುಂಬಿರಿ:	
	ಪ್ರಶ್ನೆ ಸಂಖ್ಯೆ 8. 🖲 🖲 🕒 🔘 (ಉದಾಹರಣೆ ಮಾತ್ರ) (ಬಾಲ್ ಪಾಯಿಂಟ್ ಪೆನ್ ಮಾತ್ರ ಉಪಯೋಗಿಸಿ)	
5.	ಉತ್ತರದ ಪೂರ್ವಸಿದ್ದತೆಯ ಬರವಣಿಗೆಯನ್ನು (ಚಿತ್ತು ಕೆಲಸ) ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿ ಒದಗಿಸಿದ ಖಾಲಿ	
	ಜಾಗದಲ್ಲಿ ಮಾತ್ರವೇ ಮಾಡಬೇಕು (ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿ ಮಾಡಬಾರದು).	
6.	<u>ಒಂದು ನಿರ್ದಿಷ್ಟ ಪ್ರಶ್ನೆಗೆ ಒಂದಕ್ಕಿಂತ ಹೆಚ್ಚು ವೃತ್ತಾಕಾರವನ್ನು ಗುರುತಿಸಲಾಗಿದ್ದರೆ, ಅಂತಹ ಉತ್ತರವನ್ನು </u>	
	ತಪ್ಪು ಎಂದು ಪರಿಗಣಿಸಲಾಗುತ್ತದೆ ಮತ್ತು ಯಾವುದೇ ಅಂಕವನ್ನು ನೀಡಲಾಗುವುದಿಲ್ಲ. ಓ.ಎಂ.ಆರ್.	
and a	ಹಾಳೆಯಲ್ಲಿನ ಉದಾಹರಣೆ ನೋಡಿ.	
7.	ಅಭ್ಯರ್ಥಿ ಮತ್ತು ಕೊಠಡಿ ಮೇಲ್ವಿಚಾರಕರು ನಿರ್ದಿಷ್ಟಪಡಿಸಿದ ಸ್ಥಳದಲ್ಲಿ ಓ.ಎಂ.ಆರ್. ಹಾಳೆಯ ಮೇಲೆ	
	ಸಹಿ ಮಾಡಬೇಕು.	
8.	ಅಭ್ಯರ್ಥಿಯು ಪರೀಕ್ಷೆಯ ನಂತರ ಕೊಠಡಿ ಮೇಲ್ವಿಚಾರಕರಿಗೆ ಮೂಲ ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆ	
	ಮತ್ತು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಪ್ರತಿಯನ್ನು ಹಿಂದಿರುಗಿಸಬೇಕು.	
9.	ಅಭ್ಯರ್ಥಿಯು ಪ್ರಶ್ನೆ ಮಸ್ತಕವನ್ನು ಮತ್ತು ಓ.ಎಂ.ಆರ್. ಅಭ್ಯರ್ಥಿಯ ಪ್ರತಿಯನ್ನು ತಮ್ಮ ಜೊತೆ ತೆಗೆದುಕೊಂಡು	
400	ಹೋಗಬಹುದು.	
10.	ಕ್ಯಾಲ್ಕುಲೇಟರ್, ಪೇಜರ್ ಮತ್ತು ಮೊಬೈಲ್ ಫೋನ್ ಗಳನ್ನು ಪರೀಕ್ಷಾ ಕೊಠಡಿಯ ಒಳಗೆ	
	ಅನುಮತಿಸಲಾಗುವುದಿಲ್ಲ.	
11.	ಅಭ್ಯರ್ಥಿಯು ದುಷ್ಕತ್ಯದಲ್ಲಿ ತೊಡಗಿರುವುದು ಕಂಡುಬಂದರೆ, ಅಂತಹ ಅಭ್ಯರ್ಥಿಯನ್ನು ಕೋರ್ಸ್ಗೆ	
	ಪರಿಗಣಿಸಲಾಗುವುದಿಲ್ಲ ಮತ್ತು ನಿಯಮಗಳ ಪ್ರಕಾರ ಇಂತಹ ಅಭ್ಯರ್ಥಿಯ ವಿರುದ್ಧ ಕ್ರಮ ಕೈಗೊಳ್ಳಲಾಗುವುದು.	
1	<u>ಓ.ಎಂ.ಆರ್. ಹಾಳೆಯನ್ನು ತುಂಬಲು ಸೂಚನೆಗಳು</u>	
	ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೆ ಒಂದೇ ಒಂದು ಅತ್ಯಂತ ಸೂಕ್ತವಾದ/ಸರಿಯಾದ ಉತ್ತರವಿರುತ್ತದೆ.	
2.	ಪ್ರತಿ ಪ್ರಶ್ನೆಗೆ ಒಂದು ವೃತ್ತವನ್ನು ಮಾತ್ರ ನೀಲಿ ಅಥವಾ ಕಪ್ಪು ಬಾಲ್ ಪಾಯಿಂಟ್ ಪೆನ್ನಿನಿಂದ ಮಾತ್ರ	
2	ತುಂಬತಕ್ಕದ್ದು. ಉತ್ತರವನ್ನು ಮಾರ್ಪಡಿಸಲು ಪ್ರಯತ್ನಿಸಬೇಡಿ.	
з. Л	ವೃತ್ತದೊಳಗಿರುವ ಅಕ್ಷರವು ಕಾಣದಿರುವಂತೆ ವೃತ್ತವನ್ನು ಸಂಪೂರ್ಣವಾಗಿ ತುಂಬುವುದು.	
	ಓ.ಎಂ.ಆರ್. ಹಾಳೆಯಲ್ಲಿ ಯಾವುದೇ ಅನಾವಶ್ಯಕ ಗುರುತುಗಳನ್ನು ಮಾಡಬೇಡಿ. Note : English version of the instructions is printed on the front cover of this booklet.	

