

# UNIVERSITY OF MYSORE

Ph.D. Entrance Examination, November - 2020



SUBJECT CODE : **65**

QUESTION BOOKLET NO.

Entrance Reg. No.

**505191**

## QUESTION BOOKLET

(Read carefully the instructions given in the Question Booklet)

SUBJECT : **URBAN & REGIONAL PLANNING**

MAXIMUM MARKS : 100

MAXIMUM TIME : THREE HOURS

(Including initial 10 minutes for filling O.M.R. Answer sheet)

### INSTRUCTIONS TO THE CANDIDATES

1. The sealed questions booklet containing 50 questions enclosed with O.M.R. Answer Sheet is given to you.
2. Verify whether the given question booklet is of the same subject which you have opted for examination.
3. Open the question paper seal carefully and take out the enclosed O.M.R. Answer Sheet outside the question booklet and fill up the general information in the O.M.R. Answer sheet. If you fail to fill up the details in the form of alphabet and signs as instructed, you will be personally responsible for consequences arising during scoring of your Answer Sheet.
4. During the examination:
  - a) Read each question carefully.
  - b) Determine the Most appropriate/correct answer from the four available choices given under each question.
  - c) Completely darken the relevant circle against the Question in the O.M.R. Answer Sheet. For example, in the question paper if "C" is correct answer for Question No.8, then darken against Sl. No.8 of O.M.R. Answer Sheet using Blue/Black Ball Point Pen as follows:

Question No. 8. (A) (B) (C) (D) (Only example) (Use Ball Pen only)

5. Rough work should be done only on the blank space provided in the Question Booklet. Rough work should not be done on the O.M.R. Answer Sheet.
6. If more than one circle is darkened for a given question, such answer is treated as wrong and no mark will be given. See the example in the O.M.R. Sheet.
7. The candidate and the Room Supervisor should sign in the O.M.R. Sheet at the specified place.
8. Candidate should return the original O.M.R. Answer Sheet and the university copy to the Room Supervisor after the examination.
9. Candidate can carry the question booklet and the candidate copy of the O.M.R. Sheet.
10. The calculator, pager and mobile phone are not allowed inside the examination hall.
11. If a candidate is found committing malpractice, such a candidate shall not be considered for admission to the course and action against such candidate will be taken as per rules.

### INSTRUCTIONS TO FILL UP THE O.M.R. SHEET

1. There is only one most appropriate/correct answer for each question.
2. For each question, only one circle must be darkened with BLUE or BLACK ball point pen only. Do not try to alter it.
3. Circle should be darkened completely so that the alphabet inside it is not visible.
4. Do not make any stray marks on O.M.R. Sheet.

ಗಮನಿಸಿ : ಸೂಚನೆಗಳ ಕನ್ನಡ ಆವೃತ್ತಿಯು ಈ ಮಸ್ತಕದ ಹಿಂಭಾಗದಲ್ಲಿ ಮುದ್ರಿಸಲ್ಪಟ್ಟಿದೆ.



## PART - A

**This part shall contains 50 multiple choice/objective type questions, each question carrying one mark.**

**[50×1=50]**

- 1) Drawing is a :
  - (A) Language of expression.
  - (B) An art to express measurement
  - (C) Expression of abstract theme using geometry and organic forms.
  - (D) A Graphic has all qualities as in (A) (B) (C).
  
- 2) According to Central Place Theory, the tributary around central place are flattened into
  - (A) Octogons
  - (B) Hexogons
  - (C) Heptogons
  - (D) Decogors
  
- 3) GEMS or Generatory Economic Momentum has been suggested by
  - (A) National habitat Policy
  - (B) National Commission on urbanization
  - (C) Nation Labour Commission
  - (D) None of the above
  
- 4) Two contour lines of different elevations cannot cross each other in
  - (A) Plain grounds only
  - (B) All types of grounds
  - (C) Overhanging cliffs of a cave
  - (D) None of these
  
- 5) The Ancient monuments are protected by
  - (A) Archaeological Survey of India Act
  - (B) Indian Institute of Architects Act
  - (C) Council of Architecture Act
  - (D) None of these Acts



- 6) CPM and PERT are the techniques in  
(A) The project formulation and evaluation  
(B) The Central Political Mechanism  
(C) Public Entrepreneurship ratio trend  
(D) Both (B) and (C)
- 7) Planning for zone in urban planning consists  
(A) land use zone (B) height zone  
(C) both (A) and (B) (D) none of these
- 8) Damodar river valley plan is an  
(A) A regional plan done in the country  
(B) A river de-silting plan done in the country  
(C) The water front development plan of the country  
(D) None of these
- 9) The Ancient Indian Historical Cities were planned based on the  
(A) Ayurveda (B) Artha Shastra  
(C) Vasthu Shastra (D) Jyothishya Shastra
- 10) A contour is an imaginary line on the ground  
(A) Joining lines of equal lengths  
(B) Joining points of equal height or elevation  
(C) Both (A) and (B)  
(D) None of these
- 11) "Chandigarh" in India is designed by  
(A) Ebenezer Howard (B) C.A. Perry  
(C) Remond Unwin (D) Le Corbusier



- 12) "Satellite town" is a planning and design strategy for
- (A) Urban decentralization
  - (B) Administration decentralization
  - (C) Rural decentralization
  - (D) None of these
- 13) The Rajiv Awaas Yojana is a scheme for
- (A) High end villa housing
  - (B) Apartment and gated community
  - (C) Slum housing
  - (D) None of these
- 14) Contour lines distributed at almost equal interval shows
- (A) Steep Slope
  - (B) Constant Slope
  - (C) A perfect flat area
  - (D) None of these
- 15) In Indian colour code system, Red in a land use Map represents a space using for
- (A) Commercial purpose
  - (B) Vacant land purpose
  - (C) Public and semipublic purpose
  - (D) None of these purposes
- 16) In Indian colour code system, Black in a land use map represents space using for the
- (A) purpose of Industries
  - (B) purpose Roads
  - (C) purpose of Sewage treatment plants
  - (D) none of these purposes



- 17) V7 concept given by Le Corbusier refers to  
(A) Neighbourhood planning (B) Housing typologies  
(C) Architecture design (D) Hierarchy of roads
- 18) LEED certification is for  
(A) Green building rating (B) Green city rating  
(C) Smart city rating (D) None of these
- 19) The "Zoning regulation" is  
(A) must for all cities in India  
(B) must different for all cities in India  
(C) can vary from time to time  
(D) all of these
- 20) As per census of India the settlement having population less than 5,000 is called  
(A) Rural settlement (B) Small town  
(C) Slum (D) None of these
- 21) As per censuses of India classification, if the human settlement has population more than one lakh, is called  
(A) Town (B) Smart city  
(C) City (D) None of these
- 22) Profounder of Growth pole theory was  
(A) Walter Isard (B) Patric Geddest  
(C) Weber (D) None of these
- 23) Correct arrangement of settlement hierarchy w r t population size is  
(A) Hamlet, village, town, city  
(B) Village, town, city, mega city  
(C) Both (A) and (B)  
(D) None of these



- 24) TDR stands for
- (A) Transfer of Development Rights
  - (B) Transport Directing Rights
  - (C) Term Deposit Rate
  - (D) None of these
- 25) "Rank Size" rule for primate city and settlement hierarchy was propounded by
- (A) Christaller
  - (B) Ebenezer Howard
  - (C) Putric geddes
  - (D) None of these
- 26) S.E.Z. in urban and Regional planning stands for
- (A) Special Entrepreneurship Zone
  - (B) Special Economic Zone
  - (C) Spetial Entrepreneurship Zone
  - (D) Sensitive Environment Zone
- 27) Which of the following is not a classical spatial theory of land use planning?
- (A) Concentric zone theory
  - (B) Multi nuclei theory
  - (C) Central place theory
  - (D) Sector theory
- 28) A Theodolite is an instrument used for finding or setting
- (A) Elevations only
  - (B) Both elevations and angles
  - (C) Angles only
  - (D) None of these



29) Compass is used for finding or setting

- (A) Horizontal angles only
- (B) Both horizontal and vertical angles
- (C) Vertical angles only
- (D) None of these

30) Sex ratio is the

- (A) Number of female  $\div$  100 male population
- (B) Number of females  $\div$  1000 male population
- (C) Number of males  $\div$  100 female population
- (D) Number of males  $\div$  Number of female

31) Pery's Concept of neighbourhood plan is used for

- (A) Residential area planning
- (B) Commercial area planning
- (C) Industrial area planning
- (D) None of these

32) Housing survey on structural condition, is for

- (A) Housing stock analysis
- (B) House hold analysis
- (C) Age group structure of family
- (D) None of these

33) Inward Tilt or transverse inclination given to the cross section of the road surface, throughout the horizontal curve to reduce the effect of centrifugal force on the running wheels is called

- (A) Super Elevation
- (B) Sub grade
- (C) Camber
- (D) Formation



- 34) The roadway portion designed and constructed for vehicular movement is called
- (A) Right of way (B) Carriage way  
(C) Roadway (D) All of these
- 35) The land secured and reserved for development of a road and all structure pertaining to the road, acquired for the traffic by law is called
- (A) Right of way (B) Shoulder  
(C) Carriage way (D) Access road
- 36) The road constructed around the city or town between two arterial roads to avoid through Entry of regional traffic to city is called
- (A) By pass road (B) Loop road  
(C) Ring road (D) Fly over
- 37) Number of vehicles passing over a reference point per unit time is called
- (A) Traffic volume (B) Traffic speed  
(C) Traffic density (D) All of these
- 38) The curve having same or different radius with their centre of radius at different sides of them is called
- (A) Compound curve (B) Reverse curve  
(C) Simple curve (D) Transition curve
- 39) Mobility pattern in an urban area can be derived from
- (A) Parking survey  
(B) Demographic survey  
(C) Socio-economic survey  
(D) Origin and destination survey



- 40) The best water supply networking should have
- (A) More area under gravity flow
  - (B) More area under pressure flow
  - (C) Only under pressure flow
  - (D) None of these
- 41) Maintaining an equal amount of cut and fill in the longitudinal road alignment survey indicates
- (A) Balanced depth of cut and fill
  - (B) Economic cut and fill
  - (C) Good alignment
  - (D) All the above
- 42) Number of vehicles occupying road space over a unit length is called
- (A) Traffic volume
  - (B) Traffic speed
  - (C) Traffic density
  - (D) Congestion
- 43) Any gradient which is less than the minimum gradient or more than the maximum gradient is called
- (A) Ruling gradient
  - (B) Exceptional gradient
  - (C) Floating gradient
  - (D) Average gradient
- 44) Sight distance in a roadway curve design is
- (A) A distance between two vehicles
  - (B) A straight eye to eye desistance between two drivers
  - (C) Both (A) and (B)
  - (D) A distance between vehicles measured along the centre line of the roadway.



- 45) The Model Split means
- (A) A single made is split into various segments
  - (B) A route is assigned as travel aids
  - (C) Splitting a trips under various travel modes
  - (D) None of the above
- 46) Urban roadways in India are classified as:
- (A) Arterial, sub-Arterial, collator and local streets.
  - (B) Primary, Secondary and territory roads
  - (C) NH, SH, MDR, ODR and Village roads
  - (D) All of these
- 47) The term sewerage refers to
- (A) Liquid Waste
  - (B) Underground drainage for liquid waste
  - (C) Storm waste
  - (D) Underground drainage for water supply
- 48) The term "Sullage" refers to
- (A) Liquid waste from kitchen and bathroom.
  - (B) Liquid waste from industries
  - (C) Liquid waste from toilets
  - (D) Liquid waste from oil refineries
- 49) The Demand for water in a city depends on
- (A) Climate
  - (B) Function of a city
  - (C) Per-capita income
  - (D) All of these
- 50) The Concept of garden city was introduced by
- (A) Ebenezer Howard
  - (B) Patrick goddess
  - (C) C.A.Perry
  - (D) Vishveshwaraya



## PART - B

This part shall contains five questions, each question carrying ten marks.

[5 × 10 = 50]

1. Defend the relevance of three magnet theory of Ebnezer Howard to the Urban and Regional Dynamics of the present context in India.
2. Why conservation of historical monuments is not effective to protect them in Indian Urban Planning processes and write a significant planning strategies to make effective conservation.
3. Explain how the National Green Tribunal (NGT) is required to integrates the Urban and Regional Planning and Ecology and Environmental Planning to protect Water bodies.
4. Explain the planning interventions to integrate Transit Oriented Development (TOD) and Gated Community Type housing development for Urban growth management.
5. Define project formulation strategies for slum rehabilitation in an urban context of metropolitan city.





**ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಸೂಚನೆಗಳು**

1. ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆಯ ಜೊತೆಗೆ 50 ಪ್ರಶ್ನೆಗಳನ್ನು ಹೊಂದಿರುವ ಮೊಹರು ಮಾಡಿದ ಪ್ರಶ್ನೆ ಪುಸ್ತಕವನ್ನು ನಿಮಗೆ ನೀಡಲಾಗಿದೆ.
2. ಕೊಟ್ಟಿರುವ ಪ್ರಶ್ನೆ ಪುಸ್ತಕವು, 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 ಜವಾಬ್ದಾರಾಗಿರುತ್ತೀರಿ.
4. ಪರೀಕ್ಷೆಯ ಸಮಯದಲ್ಲಿ:
  - a) ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಯನ್ನು ಜಾಗ್ರತೆಯಿಂದ ಓದಿರಿ.
  - b) ಪ್ರತಿ ಪ್ರಶ್ನೆಯ ಕೆಳಗೆ ನೀಡಿರುವ ನಾಲ್ಕು ಲಭ್ಯ ಆಯ್ಕೆಗಳಲ್ಲಿ ಅತ್ಯಂತ ಸರಿಯಾದ/ ಸೂಕ್ತವಾದ ಉತ್ತರವನ್ನು ನಿರ್ಧರಿಸಿ.
  - c) ಓ.ಎಂ.ಆರ್. ಹಾಳೆಯಲ್ಲಿನ ಸಂಬಂಧಿಸಿದ ಪ್ರಶ್ನೆಯ ವೃತ್ತಾಕಾರವನ್ನು ಸಂಪೂರ್ಣವಾಗಿ ತುಂಬಿರಿ. ಉದಾಹರಣೆಗೆ, ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿ ಪ್ರಶ್ನೆ ಸಂಖ್ಯೆ 8ಕ್ಕೆ "C" ಸರಿಯಾದ ಉತ್ತರವಾಗಿದ್ದರೆ, ನೀಲಿ/ಕಪ್ಪು ಬಾಲ್ ಪಾಯಿಂಟ್ ಪೆನ್ ಬಳಸಿ ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆಯ ಕ್ರಮ ಸಂಖ್ಯೆ 8ರ ಮುಂದೆ ಈ ಕೆಳಗಿನಂತೆ ತುಂಬಿರಿ:  
 ಪ್ರಶ್ನೆ ಸಂಖ್ಯೆ 8. (A) (B) (C) (D) (ಉದಾಹರಣೆ ಮಾತ್ರ) (ಬಾಲ್ ಪಾಯಿಂಟ್ ಪೆನ್ ಮಾತ್ರ ಉಪಯೋಗಿಸಿ)
5. ಉತ್ತರದ ಪೂರ್ವಸಿದ್ಧತೆಯ ಬರವಣಿಗೆಯನ್ನು (ಚಿತ್ತು ಕೆಲಸ) ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿ ಒದಗಿಸಿದ ಖಾಲಿ ಜಾಗದಲ್ಲಿ ಮಾತ್ರವೇ ಮಾಡಬೇಕು (ಓ.ಎಂ.ಆರ್. ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿ ಮಾಡಬಾರದು).
6. ಒಂದು ನಿರ್ದಿಷ್ಟ ಪ್ರಶ್ನೆಗೆ ಒಂದಕ್ಕಿಂತ ಹೆಚ್ಚು ವೃತ್ತಾಕಾರವನ್ನು ಗುರುತಿಸಲಾಗಿದ್ದರೆ, ಅಂತಹ ಉತ್ತರವನ್ನು ತಪ್ಪು ಎಂದು ಪರಿಗಣಿಸಲಾಗುತ್ತದೆ ಮತ್ತು ಯಾವುದೇ ಅಂಕವನ್ನು ನೀಡಲಾಗುವುದಿಲ್ಲ. ಓ.ಎಂ.ಆರ್. 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 ಪುಸ್ತಕವನ್ನು ಮತ್ತು ಓ.ಎಂ.ಆರ್. ಅಭ್ಯರ್ಥಿಯ ಪ್ರತಿಯನ್ನು ತಮ್ಮ ಜೊತೆ ತೆಗೆದುಕೊಂಡು ಹೋಗಬಹುದು.
10. ಕ್ಯಾಲ್ಕುಲೇಟರ್, ಪೇಜರ್ ಮತ್ತು ಮೊಬೈಲ್ ಫೋನ್‌ಗಳನ್ನು ಪರೀಕ್ಷಾ ಕೊಠಡಿಯ ಒಳಗೆ ಅನುಮತಿಸಲಾಗುವುದಿಲ್ಲ.
11. ಅಭ್ಯರ್ಥಿಯು ದುಷ್ಕೃತ್ಯದಲ್ಲಿ ತೊಡಗಿರುವುದು ಕಂಡುಬಂದರೆ, ಅಂತಹ ಅಭ್ಯರ್ಥಿಯನ್ನು ಕೋರ್ಸ್‌ಗೆ ಪರಿಗಣಿಸಲಾಗುವುದಿಲ್ಲ ಮತ್ತು ನಿಯಮಗಳ ಪ್ರಕಾರ ಇಂತಹ ಅಭ್ಯರ್ಥಿಯ ವಿರುದ್ಧ ಕ್ರಮ ಕೈಗೊಳ್ಳಲಾಗುವುದು.  
 ಓ.ಎಂ.ಆರ್. ಹಾಳೆಯನ್ನು ತುಂಬಲು ಸೂಚನೆಗಳು
  1. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೆ ಒಂದೇ ಒಂದು ಅತ್ಯಂತ ಸೂಕ್ತವಾದ/ಸರಿಯಾದ ಉತ್ತರವಿರುತ್ತದೆ.
  2. ಪ್ರತಿ ಪ್ರಶ್ನೆಗೆ ಒಂದು ವೃತ್ತವನ್ನು ಮಾತ್ರ ನೀಲಿ ಅಥವಾ ಕಪ್ಪು ಬಾಲ್ ಪಾಯಿಂಟ್ ಪೆನ್ನಿನಿಂದ ಮಾತ್ರ ತುಂಬತಕ್ಕದ್ದು. ಉತ್ತರವನ್ನು ಮಾರ್ಪಡಿಸಲು ಪ್ರಯತ್ನಿಸಬೇಡಿ.
  3. ವೃತ್ತದೊಳಗಿರುವ ಅಕ್ಷರವು ಕಾಣದಿರುವಂತೆ ವೃತ್ತವನ್ನು ಸಂಪೂರ್ಣವಾಗಿ ತುಂಬುವುದು.
  4. ಓ.ಎಂ.ಆರ್. ಹಾಳೆಯಲ್ಲಿ ಯಾವುದೇ ಅನಾವಶ್ಯಕ ಗುರುತುಗಳನ್ನು ಮಾಡಬೇಡಿ.

Note : English version of the instructions is printed on the front cover of this booklet.