

Nepal Engineering Council Registration Examination
Model Question for Architecture (AArc)

(100*1 = 100)

1. Kailash Kut Bhawan was built by
 - a) Mahadev
 - b) Jayastithi Malla
 - c) Anshuverma
 - d) King Jay Dev

2. The Krishna temple Patan is built on
 - a) Pagoda style
 - b) Sikhara style
 - c) Nagara style
 - d) Gothic style

3. Nepalese vernacular architecture is not varied due to
 - a) Topography
 - b) Function of building
 - c) Natural environment
 - d) Ethnicity

4. is not enlisted in World heritage site list.
 - a) Pasupathinath
 - b) Swayambhunath
 - c) Lumbini
 - d) Godawari

5. Permissible built-up area shall be equal to or not greater than
 - a) Area of land x F.A.R
 - b) Ground coverage x F.A.R
 - c) Area of all floors x F.A.R
 - d) Area of land

6. The first apartment act was approved in
 - a) 2049
 - b) 2051
 - c) 2052
 - d) 2054

7. The thickness of mortar joint in brick masonry shall be , both vertically and horizontally.
- a) 4mm
 - b) 5mm
 - c) 2mm
 - d) 10mm
8. The compressive strength of concrete mix M25 (1:1:2) will be
- a) 25 MPa
 - b) 10 MPa
 - c) 35 MPa
 - d) 15 MPa
9. Anti-bacterial paint is made with
- a) Lotus microfiber
 - b) Normal fiber
 - c) L.O.W V.O.C chemical
 - d) Lead and mercury
10. Raft foundation is also called
- a) Combined footing
 - b) Isolated footing
 - c) Mat footing
 - d) Strip footing
11. Construction or expansion joints should be made after
- a) 10 m
 - b) 18 m
 - c) 22 m
 - d) 35 m
12. Minimum depth of the lift pit is
- a) 2 ft
 - b) 1 ft
 - c) 3 ft
 - d) 6 ft
13. Gothic Architecture style in Europe last from
- a) 12th century to 16th century
 - b) 8th century to 12th century
 - c) 10th century to 11th century

d) 11th century to 14th century

14. Garbhagriha is an element of
a) Buddhists Architecture
b) Mughal Architecture
c) Eastern Architecture
d) Hindu Architecture
15. Constructivism architecture was flourished in 1920 and early 1930 in
a) U.S.A
b) U.K
c) Soviet Union
d) China
16. The parliament building of Bangladesh was designed by
a) Kenjo Tange
b) Tadao Ando
c) Louis Kan
d) Walter Gropius
17. Architecture as celebration: “Every project was an opportunity to bring joy into daily life”. This was the slogan of
a) B.V. Doshi
b) Hafiz Contractor
c) Zaha Hadid
d) Charles Correa
18. National city hall was designed by
a) Shankar Nath Rimal
b) Benjamin Polk
c) Robert Waise
d) Gangadhar Bhatta Halabe
19. The cube includes
a) Single axis
b) Two axes
c) Three axes
d) Four axes
20. The vanishing point is used in
a) Orthographic projection

b) Axonometric projection

- c) Cubical projection
 - d) Perspective projection
21. Floor plans gives the information of
- a) Vertical plane
 - b) Horizontal plane
 - c) Three dimensional objects
 - d) Vertical sectional plane
22. The main element in design process in architecture is.....
- a) Site and surrounding
 - b) Aesthetic value
 - c) Volume composition
 - d) Requirements, Function and constraint
23. Auto LISP is programming language of
- a) Sketchup
 - b) AutoCAD
 - c) 3D max
 - d) Form-Z
24. The basic design for small projects has least variation with
- a) Function and volume
 - b) Requirement, Bylaws
 - c) Construction technology
 - d) Geography of the sets
- 25..... plays an important role while developing site plan and floor plan
- a) Location
 - b) Line weight
 - c) Orientation
 - d) Scale and Detailing
26. Case studies of same types of projects help to find out and understand
- a) Volume composition
 - b) Function, size, flow
 - c) Plane composition
 - d) 3D view

27..... is not rendering tools for photo image
a) Corel draw

- b) Scan line render
 - c) V-ray
 - d) Mental ray
28. Permissible built-up area, set back line, detail building cover area, Height of the building with detail section, opening schedule should be shown in
- a) Detail working drawing
 - b) Municipal drawing
 - c) Contract drawing
 - d) Concept drawing
29. Every detail of projection and completion element – wall section of critical faces, flooring details, and all other details – should be provided in
- a) Working drawing
 - b) Municipal drawing
 - c) Contract drawing
 - d) Concept drawing
30. Complex design projects should follow
- a) Aesthetic values
 - b) Non measurable parameter
 - c) Analytical findings
 - d) Building By laws and building code
31. A beam that rests on two support and free to move horizontally is
- a) Simply support beam
 - b) Cantilever beam
 - c) Overhanging beam
 - d) Inverted beam
32. In truss, bottom chord is usually in
- a) Compression
 - b) Torsion
 - c) Shear
 - d) Tension
33. For government project estimate,.....has to be referred.
- a) Contract document
 - b) Agreement document
 - c) Additional document
 - d) District approved rate index

34. Prefab double leaf cement broad wall with void in between is called

- a) Wet construction
 - b) Dry construction
 - c) Smart construction
 - d) New construction
35. Perforated fiber base and mineral base wall cladding board helps
- a) Thermal insulation
 - b) Acoustic insulation
 - c) To absorb moist
 - d) To absorb heat
36. One of the elements for passive energy saving is
- a) Using modern element
 - b) Using modern technology
 - c) Using old technology
 - d) Rain water harvesting
37. The town planning does not vary with
- a) Cityscape
 - b) Street
 - c) Plot
 - d) Building
38. The first urban planned city of Nepal is
- a) Tikapur
 - b) Bhadrapur
 - c) Bhaktapur
 - d) Rajbiraj
39. Demographic survey reflects
- a) Demands and growth
 - b) Requirement
 - c) Types
 - d) Development
40. G.L.D helps to access
- a) Comfort
 - b) Security
 - c) Conservation

d) Road and services

41. Fundamental principle of urban design helps to get
- a) Good look
 - b) Healthy, easy, safe environment responsive and functioning city
 - c) Industrial city
 - d) Hitech city
42. Town Development Act was approved in
- a) 2048
 - b) 2049
 - c) 2042
 - d) 2045
43. Geometry and shape of the site is
- a) Good for design
 - b) One of the major constraints in design
 - c) Not functionable
 - d) Waste of shape
44. If liquefaction is found in soil test, the treatment for that is
- a) Gravel pile
 - b) Retaining wall
 - c) Pile
 - d) Core-design
45. The site data does not include
- a) Detail survey with contour and level
 - b) Existing structure, existing water supply, drainage, electricity supply
 - c) Detail soil investigation
 - d) Requirement of client
46. Landscape design also includes
- a) Exterior face of building
 - b) Boundary wall, gate, external light post
 - c) Parapet wall
 - d) Interior
47. Contemporary typological open space is not
- a) Playing area
 - b) Resting places
 - c) Road, open spaces in front of public building
 - d) Internal courtyard of building

48. To upgrade urban environment and urban ecology in existing condition ...may help to improve

- a) Recharging pit and small plantation in every house
 - b) Equipped element
 - c) Concrete ground
 - d) Artificial plantation
49. Better architecture helps to build
- a) Good environment and society
 - b) Functioning space
 - c) Good exterior
 - d) Aesthetic value
50. Meaning of 3C
- a) Client, consumer, consultant
 - b) Consumer, contractor, consultant
 - c) Contractor, consumer, client
 - d) Client, contractor, consultant
51. Social philosophy of Architecture is
- a) Vaastu shastra
 - b) Climatic design
 - c) Passive energy design
 - d) Modern design
52. Changing in family structure leads to
- a) Mechanical design
 - b) Expressive design
 - c) Theoretical strong design
 - d) Fragmentation of land and properties.....
53. The Procurement Act is regulated and formulated by .
- a) DUDBC
 - b) PPMO
 - c) NPC
 - d) Ministry of finance
54. The valuator is assigned according to guideline of NRB by
- a) Nepal Rastriya bank (NRB)
 - b) Individual bank
 - c) NPC
 - d) Ministry of finance
55. Standard dimensions (mm x mm) of A3 drawing sheet is

a) 11.69×16.54

- b) 29.7×42
 - c) 297×420
 - d) 420×280
56. Which of the following methods of charging depreciation of an asset has increased amount of depreciation as the age of asset increases
- a) sum-of-year digit
 - b) sinking fund
 - c) diminishing balance
 - d) straight line
57. The process of optimizing the project's limited resources without extending the project duration is known as
- a) project crashing
 - b) resource levelling
 - c) resource smoothing
 - d) networking
58. The process of composing/raising the required fund from different sources such as equity, preferred stock, bond and debenture is known as
- a) capital structure planning
 - b) project financing
 - c) capital budgeting decision
 - d) deducing earning per share
59. In which of the following society, people used to seek their existence on growing plants for their cattle and domestic animals
- a) pastoral society
 - b) tribal society
 - c) horticultural society
 - d) agricultural society
60. According to Nepal Engineering Council Act, 2055 (Revised, 2079), all engineering academic institutions shall be in the Council.
- a) affiliated
 - b) united
 - c) recognized
 - d) associated
61. A style of Lichchhavi temple in stone is called
- a) Tallakar
 - b) Dyochhen
 - c) Granthakuta
 - d) Aavarana

62. The process of intervention to revive the original concept or legibility of the object is
- Restoration
 - Reproduction
 - Consolidation
 - Preservation
63. A line parallel to the plot boundaries and laid down in each case, beyond which nothing can be constructed towards the site boundaries is called ...
- Set Back
 - Right of way
 - Property Line
 - Plot Line
64. What is the key feature that distinguishes vernacular architecture?
- High aesthetic standards
 - Formal architectural design
 - Use of locally sourced and readily available materials
 - Reliance on complex, imported materials
65. What is the classification of Marble?
- Metamorphic
 - Foliated rock
 - Sedimentary rock
 - Igneous rock
66. Slaked lime is _____
- Calcium oxide
 - Hydrated oxide of calcium
 - Calcium carbonate
 - Calcium silicate
67. Which type of foundation transfers load through both skin friction and end bearing?
- Strip footing
 - Mat foundation
 - Pile foundation
 - Strap footing
68. Which joint is created when concrete pouring stops and restarts to transfer load between sections?
- Expansion Joint
 - Isolation Joint
 - Construction Joint
 - Contraction Joint
69. In Egyptian Architecture, the monumental gateway consisting of slanting walls flanking the entrance portal is called ...
- Obelisks
 - Masatabas
 - Pylons
 - Sphinxes
70. Which of the following pairs is correctly matched?

- a) Mahabalipuram Temple - Rashtrakutas
 - b) Meenakshi Temple - Pallavas
 - c) Ellora Caves - Shakas
 - d) Khajuraho Temple – Chandelas
71. Who said less is more in architecture?
- a) Walter Gropius
 - b) Ludwig Mies Van der Rohe
 - c) Le Corbusier
 - d) Frank Lloyd Wright
72. Who was the designer of Kathmandu's Nepal Academy Hall?
- a) Gangadhar Bhatta
 - b) Bed Prasad Lohani
 - c) Gauri Nath Rimal
 - d) Shankar Nath Rimal
73. Which design principle ensures visual balance and stability in a composition?
- a) Emphasis
 - b) Rhythm
 - c) Balance
 - d) Pattern
74. Which type of drawing shows a building cut in half vertically to reveal its internal structure and levels?
- a) Perspective
 - b) Plan
 - c) Elevation
 - d) Section
75. Which of the following projection methods uses projectors that are not parallel to each other?
- a) Orthographic
 - b) Isometric
 - c) Oblique
 - d) Perspective
76. In architectural floor plans, blocks in AutoCAD are commonly used for:
- a) Editing layer
 - b) Applying dimensions
 - c) Scaling the drawing
 - d) Repeated elements like doors, windows, and furniture
77. What is the primary purpose of a master plan?
- a) To outline the architectural details of a single building
 - b) To guide the overall character, physical form, and growth of a community or town
 - c) To manage the landscaping of a small garden
 - d) To provide detailed budget for construction
78. What is the primary goal of Universal Design in architecture?
- a) To only accommodate people with disabilities

- b) To create environments that are accessible and usable by the widest possible range of people
 - c) To reduce construction costs for new buildings
 - d) To provide flexibility only for the physically able
79. In architectural visualization, what is the process of converting a 3D model into a 2D image on the screen called?
- a) Modelling
 - b) Animation
 - c) Rendering
 - d) Shading
80. What type of drawing is used to visualize an architectural element before actual construction begins?
- a) Assembly drawing
 - b) Orthographic drawing
 - c) Perspective drawing
 - d) Working drawing
81. When a uniformly varying load is applied to a beam, the shear force and bending moment will be as follows:
- a) Linear and circular
 - b) Linear and parabolic
 - c) Parabolic and Cubic
 - d) Constant and linear
82. What is stated in terms of grams of water vapour per kilogram of moist air?
- a) Relative humidity
 - b) Absolute humidity
 - c) Specific humidity
 - d) Vapour pressure
83. What is the name of traversing that is used for running survey lines of a closed or open survey?
- a) Chain surveying
 - b) Compass surveying
 - c) Theodolite surveying
 - d) Plane table surveying
84. Echo of sound is more prominent if surface is
- a) Soft
 - b) Smooth
 - c) Porous
 - d) Rigid
85. Who developed the concept of Garden City?
- a) Sir Patrick Geddes
 - b) Sir Lewis Mumford
 - c) Sir Ebenezer Howard
 - d) Robert E. Park
86. The central place theory was postulated by:

- a) C D Harris
 - b) J Gottman
 - c) W Christaller
 - d) P Geddes
87. Which land pooling initiative was the first to be put into action in the Kathmandu Valley?
- a) Sintitar land pooling project
 - b) Dallu land pooling project
 - c) Saibu Bhaisepati land pooling project
 - d) Gongabu land pooling project
88.is a comprehensive method for managing, designing, and planning public spaces.
- a) Nodes
 - b) Square
 - c) Central Business District (CBD)
 - d) Place-making
89. What is the primary purpose of site analysis in construction?
- a) To survey the existing environment and understand its impact on building design
 - b) To secure necessary building permits and approvals
 - c) To estimate the cost of construction materials
 - d) To schedule the construction timeline and allocate resources
90. The term "allowable bearing capacity" refers to:
- a) The maximum load the soil can take before it fails entirely
 - b) The safe pressure that soil can withstand without undergoing excessive settlement
 - c) The total weight of the building and foundation
 - d) The rate at which the building will sink over time
91. Which of the following is an example of a hard landscape element?
- a) A flower bed planted with shrubs
 - b) A pathway made of gravel
 - c) A lush green lawn
 - d) A large tree
92. What is the primary purpose of a green roof in an architectural design?
- a) To improve the aesthetics of the building
 - b) To increase the building's structural load
 - c) To reduce the urban heat island effect and manage storm water
 - d) To provide additional space for occupants
93. The Nepal National Building Code defines a high-rise building as
- a) A building having 1 to 5 storeys or below 16 meters
 - b) A building having 6 to 8 storeys or between 16 and 25 meters
 - c) A building having 9 to 39 storeys or between 25 and 100 meters
 - d) A building having 40 storeys or above 100 meters

94. The distinction between the cost of the property and the total cost of depreciation is called
- a) Market value
 - b) Book value
 - c) Capital value
 - d) Salvage value
95. What is the primary role of a consultant in a project?
- a) To construct the physical project
 - b) To provide expert advice and technical guidance
 - c) To manage the project budget and schedule
 - d) To sell the final project to a customer
96. Which anthropometric factor is most important in designing kitchen counters?
- a) The color of the countertop materials
 - b) The average number of appliances used in a kitchen
 - c) The noise level generated by the kitchen
 - d) The adjustability of the height to suit different users
97. According to the Internal Rate Return (IRR) decision rule, a project should be accepted if:
- a) The IRR is less than the cost of capital
 - b) The IRR is equal to the cost of capital
 - c) The IRR exceeds the required rate of return
 - d) The Net Present Value (NPV) is negative
98. On the critical path, the total float is always:
- a) Maximum
 - b) Positive
 - c) Negative
 - d) Zero
99. Which of the following risk management processes involves creating a list of potential risks?
- a) Risk monitoring and control
 - b) Risk identification
 - c) Risk analysis
 - d) Risk mitigation
100. What is the primary objective of the Nepal Engineering Council (NEC)?
- a) To promote and regulate the engineering profession
 - b) To establish professional unions for engineers
 - c) To manage government infrastructure projects
 - d) To provide engineering services directly to the public