I/V B.Arch.DegreeExamination

# MODEL QUESTION PAPER BASIC DESIGN AND VISUALARTS

(Effective from the admitted batch of 2022-2023)

#### **FIRST SEMESTER**

Time: 5Hours Max.Marks:50

#### PART-A is **COMPULSORY**

1x30=30M

#### PART-A

1. Designalogoforayogavillageinyourcityreflectingthepurposeofthespacekeepinginmind the design principles.

2x10=20M

# $\begin{array}{c} Answer Any \underline{TWO} \text{from Part-B} \\ \underline{PARTB} \end{array}$

- 2. Withthehelp of neatsketchesexplain the following
  - a. Hierarchy b.Rhythm c.Datum
- 3. Whataretheelementsof design? Elaborate with the help of diagrams.
- **4.** Whatistransformation? With the help of sketches describe various ways of transformation of forms.
- **5.** Distinguishbetween
  - a. Analogous colors&contrastingcolors
  - b. Tone &Texture
  - c. Warmcolors and cool colors

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### MODEL QUESTION PAPER ARCHITECTURAL DRAWING AND GRAPHICS-I

(Effective from the admitted batch of 2022-2023)

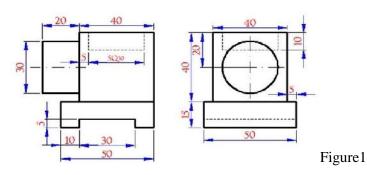
#### **FIRSTSEMESTER**

Time: 5hours Max.Marks:50

Answer any **FIVE** questions

All questions carry **EOUAL** marks.

- 1. ComposetheLOGOofanArchitectsfirmin A4 sizesheet
- 2. Constructa complexgeometric patternusinganytwo geometricalshapes
- Draw the projections of hexagonal pyramid base 30mm side and axis 60mm longhaving its base on the H.P. and one of the edge of the base inclined at 45 degrees to the V.P.
- 4. Answeranytwoofthefollowing
  - a. Write architectural style of lettering of the following in
     2x2cm"ARCHITECTUREISTHE MOTHEROFALLARTS"
  - b. Inscribearegular pentagonincircle ofdia8cm.
  - c. Describetheimportanceoflinetypesand weights
- 5. DrawIsometricfor Figure 1.
- 6. Draw aArchitecturesymbols forthefollowinga)Anytwo human postersb) Two Plants inelevation c)Doorandwindowsin plan
- 7. Draw an intersection of two cylinders of 15cm long and 5cm diameter, intersecting perpendicularly at their respective centers
- 8. Answeranytwoofthefollowing
  - a. Drawan involuteofasquare4cm x4cm.
  - b. Writeatleast5abbreviationsusedin architecturalrepresentation
  - c. Showgraphical representation forglass, wood, stone, concrete, RCC



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### MODEL QUESTION PAPER BUILDING MATERIALS AND CONSTRUCTION-I

(Effectivefromthe admittedbatch of 2022-2023)

#### **FIRSTSEMESTER**

Time: 5hours Max.Marks:50

Answer any **ONE** from Part AAnswerany **THREE** from Part-B

#### PART-A

1x20=20M

- 1. Draw to scale plans and elevations of alternative courses of 1 and 1 ½ bricks thickwallin (a)Englishbond(b) Flemish bond. (adopt scale of 1:20)
- 2. Drawathreecenteredarchwithanopeningsizeof1.5Mwideand2.10Mheight(from floor finishing to the key stone) and also mention all the technical terms of anarch. (adoptscale of 1:10)

#### **PART-B**

3x10=30M

- 3. Explainbasicprinciplesofloadbearingandframedstructures
- 4. Write short notes on
  - a. Bulkingof sand
  - **b.** Lightweightmortars
- 5. Give classification, qualities, uses and localities where they are available in India of the following stones.
  - a. Granites
  - **b.** Limestone
  - c. Marble
  - d. Quartzite
  - e. Sandstone
- 6. What are the qualities of ideal preservatives? Mention the preservatives which are commonly used
- 7. Definethefollowing with the help of neat sketches
  - a. SteellintelsandRCClintels
  - **b.** LintelandArch.

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# MODEL QUESTION PAPER INTRODUCTION TO ARCHITECTURE ART CULTURE

(Effective from the admitted batch of 2022-2023)

#### **FIRSTSEMESTER**

Time: 3hours Max. Marks: 70

#### Answer any **FIVE** questions

All questions carry **EOUAL** marks.

- 1. Explain brieflyabout development of Ancient Civilizations
- 2. Writeshortnotes ondevelopment of shelter forms from prehistoric period.
- 3. ExplainArtsandCrafts Movement.
- 4. ExplainthetermsArt,Culture,Architecturewithrelevantexamplesandbrieflydiscusshow they are interrelated to each other.
- 5. Whatis ornament? Discuss abouttypesofornamentation inbuildings.
- $\label{eq:constages} 6. \ \ Writeshortnoteson stages of early History of Architecture with suitable examples and sketche s.$
- 7. Discussthe evolution of Architecture from the Renaissance to the contemporary.
- 8. ListthedifferencebetweenIndianarchitectureandwesternarchitecturewithsuitableexampl es.

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# MODEL QUESTION PAPER SURVEY & SITE STUDIES

(Effective from the admitted batch of 2022-2023)

#### **FIRST SEMESTER**

Max.Marks: 50

#### PRACTICAL&VIVA-VOCEEXAMINATION

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# MODEL OUESTION PAPER STRUCTURAL MECHANICS-I

(Effective from the admitted batch of 2022-2023)

#### **FIRSTSEMESTER**

Time: 3hours Max. Marks: 70

Answer any **FIVE** questions

All questions carry **EOUAL** marks.

1. A man raises a 10-kg joist, of length 4 m, by pulling on a rope. Find the tension Tintheropeand thereactionat *A*.(ReferFig.1)

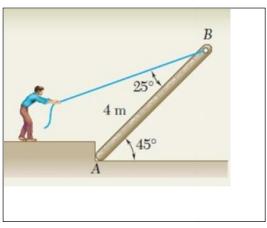


Fig.1

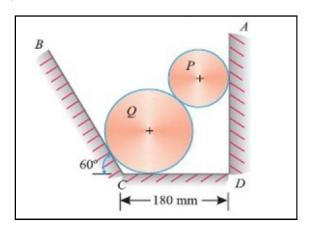
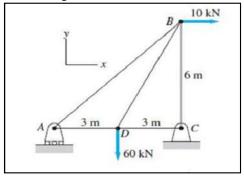


Fig.2

- 2. Two cylinders rest in a channel as shown in Fig. 2. The cylinder P has diameter of 100mm and weighs 200N, whereas the cylinder Q has diameter of 180mm and weighs 500N. If the bottom of the box is 180mm with one side vertical and other inclined at 60°. Determine the reaction at all the four point of contacts.
- 3. Using the method of joints, determine the force in each member of the truss shown in Fig. 3. Indicate whether themembers are in tension or compression.





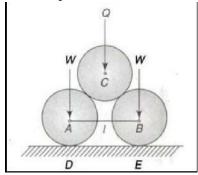
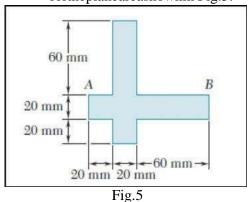


Fig.4

4. Two smooth circular cylinders, each of weight W=445N and radius r=152mm, are connected at their centres by a string AB of length l=406mm and restupon a horizontal plane, supporting above them a third cylinder of weight Q=890N and radius r=152mm.

5. Determine the moments of inertia  $I_x$  and  $I_y$  of the shaded area with respect to side AB for the plane area shown in Fig. 5.



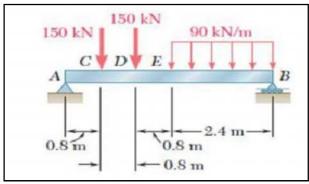


Fig.6

- 6. Drawthe shearand bending-moment diagramsfor the beam and loading shown in Fig. 6.
- 7. Derive the basic equation  $/j = f_s/R = G / l$
- 8. A specimen of steel 20 mm diameter with a gauge length of 200 mm is tested todestruction. It has an extension of 0.25 mm under a load of 80 kN and the load atelastic limit is 102 kN. The maximum load is 130 kN. The total extension at fracture is 56 mm and diameter at neckis 15 mm.

#### Find

- (i) Thestress at elastic limit.
- (ii) Young's modulus.
- (iii) Percentageelongation.
- (iv) Percentagereductioninarea.
- (v) Ultimatetensile stress.

#### ModelQuestionPaper English

# I/IVB.Tech.,I/VIB.Tech+M.Tech.&I/VArchitecture(Effectivef rom2019-2020AdmittedBatches) (CommonforallBranches)

#### Time:3hoursMaxmarks:70

#### Instructions:

- AnswerQuestionNo.1, and any four questions from the remaining.
- Allpartsofaquestion *must* beanswered at one place.
- Allquestionscarryequalmarks.

#### 1. a.Readthepassageandanswerthequestionsthatfollow:

Political education has many connotations. It may be defined as the preparation of a citizen to take well informed, responsible and sustained action for participation in the national struggle in order to achieve the socioeconomicobjectives of the country. The predominant socio- economic objectives in India are the abolition of poverty and thecreation of amodern democratic, secular and socialist society in place of the presenttraditional, feudal, hierarchical and in egalitarian one. Underthecolonial rule, the Congressleaders argued that politicaleducation was importantpartofeducationand refused toacceptthe officialviewthat education and politics should notbe mixed withoneanother. But when they came to power in 1947 they almost adopted the British policy and began to talk of educationbeingdefiledbypolitics, 'Handsoffeducation' wasthecalltopolitical parties. Butinspite of it, political infiltration into theeducationalsystemhasgreatly increasedin the sensethatdifferentpoliticalpartiesviewitheach tocapturethemindofteachersandstudents. Thewise academic ians wanted political support, without political interference. What we have actually received is infinite political interference with little genuine political support. This interference with the educational system by political parties for their own ulterior motives is no political education at all with the all round growthof elitism, itis hardly amatter for surprise that realpolitical education within theschoolsystem (which really means the creation of a commitment to socialtransformation) hasbeen even weakerthanin the preindependenceperiod. During thattimeonly, the strugglefor freedom came to an end and the major non-formal agency of political education disappeared. The press played a major role by providing some political education. But it did not utilize the opportunity to the full and the stranglehold ofvested interests continued to dominate it. Thesamecanbesaidofpoliticalpartiesaswellasofotherinstitutionsandagenciesoutsidetheschoolsystemwhichcanbeexpectedto providepoliticaleducation. Afteranalyzing all these things, it appears that we have made no progressing enuine political education in the post-education period andhaveevenslided back in some respects. For instance, the education system has become even more elite-oriented. Patriotism has become the first casualty. The father of thenation gave us the courage to oppose government when it was wrong, in a disciplined fashion and on basic principles. Today, we have even lost the courage to fight on basic issues in a disciplined manner because agitational and anarchicpolitics for individual, group or party aggrandizement has become common. In the recent times the education system continues to support domination of the privileged groups and domestication of the underprivilegedones. The situation will not change unless we takevigorous steps to provide genuine politicale ducation on an adequate sca le. This is one of the major educational reforms we need, and if it is not carried out, mere linear expansion of the existingsystemofformaleducationwillonlysupportthestatus quoandhamperradical socialtransformation.

i. According to the passage, what should be the main purpose of political education? (2

Marks)ii. What would be the appropriate Title of the passage, statereas on/s?

(2Marks)iii. Howhaspolitics been related to educational institutions after independence?

(2Marks)iv.Basedonthepassage, which is the major drawback of the presented ucation system? (2Marks)

b. Correcterrors, if any, in the following sentences and rewrite them. (2Marks)

- i. Theydiscussed about the whole matter.
- ii. Ihavejustalittlemorepagestoread.
- c. Usethefollowingphrasalverbsinsentencesofyourown.

(2Marks)

i. Backout ii.Standby

d. Writethemeaningsofthefollowingidiomaticexpressions.

(2Marks)

i. Blacksheep

ii.Feelblue

2. a. '	Whatis William Hazlitt's advice to his sonin 'On the Conduct of Life'.	(7Marks)
b.	BringoutthesignificanceofRudyardKipling'spoem, 'IF'.	(7Marks)
3.a.	HowdoesTennysondescribethepoem, 'TheBrook'.	(7Marks)
b.	What are the suggestions given by George Bernard Shawtoim prove Public Speaking.	(7Marks)
4.a.	DiscussthesignificanceofSaki'sPlay, The Death Trap.	(7Marks)
b.	Reflect on the ideas of Time Management, with reference to Seneca's letter.	(7Marks)
5. a. I	DescribetwoinstancesinwhichYellammabreaksgenderandcastebarriersinherlife?	(7Marks)
b.	How does Muhammad Yunus' innovative idea help the poor women of Bangladesh.	(7Marks)
6.a.	MentiontherulesGeorgeOrwelladvocatesinordertobetterone'suseoflanguage.	(7Marks)
b.	HowdoesMrinaliniSarabhaiserveasamotivationthroughherlife?	(7Marks)
7. a. V	Vriteanexchangeofdialoguesbetweenyouandyourseniorcolleague.	(7Marks)

b. Readthefollowingpassageandmakenotesonit,usingheadingsandsub-headings:

(7Marks)Indiaisasecular,democraticnation.Thisimpliesthateveryreligionistreatedequallyandatparwitheveryotherr eligion.Noreligionisaccordedanypreferentialtreatmentofanykind.Allcitizensarealsofreetopractice,preachorprofessanyreligi onoftheirchoosing.ThestatedoesnothaveaunifiedorhomogeneousreligiousfollowingthisuniquecharacteristicofIndiaensuresi tsunityindiversity.Indiahasbeenthebirthplaceofseveralreligionsandistheland where allthese religions - such as Hinduism, Christianity,Buddhism,Sikhism,Zoroastrianism, Jainism and soonexistsimultaneously,peacefully andharmoniously.But,someanti-socialelementshaveinterpretedthesanctity ofreligionsinatwistedway.Noreligionpreachesviolenceorrioting.AllthereligionsarebutvariouswaystoreachtheSupremeBein g,theyarepathswhichleadtotheultimatetruthandsalvation,thoughwerefertothedestinationbyvariousnamessuchasJesus,Krish na,Buddha.Allahandsoon.Itisimportanttorealizethatinordertoensureapeacefulmosaicofculturaldistinctness,thepathofnonviolenceorahimsa,asgivenbytheFatherofthenation,mustbefollowedunwaveringly.Godcreatedmaninhisownimage.Hence,itf

8.a. Writeanessay on 'WomenEmpowermentinIndia'. (7Marks)

yoncethereligious fanatic sunderstand this, will there be perpetual peace in the land.

b. WritealettertothePrincipalofyourcollegerequestingtoconductaTechnicalFest. (7Marks)

ollowsnaturallythatthereissomedivinitywithinallhumanbeings. Thus, tokillandmurderinthenameofreligionis blasphemy. Onl

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