BEDC43(4)

**N.V.K.S.D. COLLEGE OF EDUCATION**

**(AUTONOMOUS)**

**B.Ed. Degree Fourth Semester Examination, May 2023**

**(For the candidates admitted during the academic year 2021-2022)**

**Pedagogic Course: EMERGING TRENDS IN MATHEMATICS EDUCATION**

**Course code: BED4PC015**

**Time: 3 Hours Maximum Marks: 70**

**SECTION A (10 x 1 = 10 marks)**

**Answer ALL the questions by selecting the appropriate answers.**

1. The front page of a blog is a/an

a) Header b) Index page c) Theme d) Title

tiyg;gjptpd; Kfg;G gf;fk;

m) jiyg;G M) FwpaPl;L gf;fk; ,) ikaf;fUj;J <) jiyg;G

1. An innovative tool that enables teachers to take students on immersive virtual journeys and field trips to anywhere is

a) Google classroom b) Google virtual tours

c) Google expeditions d) MS classroom expeditions

Mrpupau;fs; khztu;fis mjpNtfkhf nka;epfu; gazq;fs; kw;Wk; fsg; gazq;fSf;F mioj;Jr; nry;y cjTk; xU GJikahd fUtp

m) $Fs; tFg;giw M) $Fs; nka;epfu; Rw;Wg; gazk;

,) $Fs; vf;];ngb\d;]; <) MS fpsh]; &k; vf;];ngb\d;];

1. Role of teacher in cooperative learning is as a

a) Tutor b) Role model c) Facilitator d) Guide

$l;LwT fw;wypy; Mrpupaupd; gq;fhdJ

m) Nghjfu; M) Kd; khjphp ,) VJthsu; <) topfhl;b

1. Concept maps help in facilitating understanding of concepts by

a) Synthesizing and organizing information b) Removing sub-concepts

c) Disconnecting information from social context

d) Putting over-emphasis on recall

fUj;J tiuglq;fs; ,jd; %yk; fUj;Jfis Gupe;J nfhs;s cjTfpwJ

m) jftiy xUq;fpizj;jy; kw;Wk; xOq;fikj;jy;

M) Jizf; fUj;Jfis ePf;Fjy;

,) r%fR+oypy; ,Ue;J jfty;fisj; Jz;bj;jy;;

<) epidT $h;jYf;F mjpf Kf;fpaj;Jtk; nfhLj;jy;;

1. The model that facilitates meaningful verbal learning and retention is

a) Concept attainment model b) Inquiry training model

c) Synetic model d) Advance organizer model

mh;j;jKs;s tha;nkhop fw;wy; kw;Wk; jf;fitg;ig vspjhf;Fk; khjpup

m) fUj;J miljy; khjphp M) tprhuiz gapw;rp khjphp

,) rpndbf; khjphp <) Kd;jU Jhz;lyikg;G khjphp

1. The relationship between the teacher and learners in a teaching model is

a) Instructional effects b) Nutrient effects

c) Principle of reaction d) Social system

xUfw;gpj;jy; khjpupapy; MrpupaUf;Fk; fw;gtu;fSf;Fk; ,ilapyhd cwT

m) fw;wy; tpisTfs; M) Cl;lr;rj;J tpisTfs;

,) vjpu;r;nray;fs; rhh;e;j nfhs;if <) r%f xUq;fpizT

1. A mobile app and website portal form where you can download books of NCERT for free

a) e-Pusthak b) Udaan c) e-Pathsthala d) swayam.com

vd;rp,Mh;bapd ;Gj;jfq;fis ,ytrkhf gjptpwf;fk; nra;af;$ba nkhigy; Mg; kw;Wk; ,izajs Nghh;ly; gbtk;

m) ,-G];jf; M) cjhd; ,) ,-gj;];jyh <) Rak;.fhk;b

1. An example for multimedia presentation is

a) CAI b) CMI c) Animated GIF d) Maps

gy;Yhlf tpsf;f f;fhl;rpf;fhd xU vLj;Jf;fhl;L

m) CAI M) CMI

,) mdpNk\d; nra;ag;gl;lGIF <) tiuglq;fs;

1. Professional development of a teacher does not include

a) Extend and deepen subject matter knowledge for teaching

b) Attending various workshop and seminar conferences

c) Strengthen skills and dispositions to study and improve teaching

d) Setting mental dispositions for monetary advantages

Mrpupaupd; njhopy;Kiw Nkk;ghl;by; mlq;fhjJ

m) fw;gpj;jYf;fhd ghl mwpit tpupTgLj;Jjy; kw;Wk; Mog;gLj;Jjy;; M) gy;NtW gapw;rpgl;liw kw;Wk; fUj;juq;F khehLfspy; fye;J nfhs;tJ

,) fw;wy; kw;Wk; fw;gpj;jiy Nkk;gLj;Jtjw;F jpwd;fs; kw;Wk; kNdhghtq;fis tYg;gLj;Jjy;

<) gzk; rhh;e;j Mjhaj;jpw;f;fhd kd epiyia mikj;jy;

1. The institution directly responsible for the professional growth of school teachers in India

a) CSIR b) NCERT c) NCTE d) NIEPA

,e;jpahtpy; gs;sp Mrpupau;fspd; njhopy; Kiw tsu;r;rpf;F Neubahfg; nghWg;Ngw;f;Fk; epWtdk;

m) CSIR M) NCERT ,) NCTE <) NIEPA

**SECTION B (10 x 2 = 20 marks)**

**Answer any TEN questions in about 50 words each.**

1. What are the ways to link technology to pedagogic content knowledge?

njhopy;El;gj;ij ghlg;nghUs; mwpTld; ,izg;gjw;fhd topfs; ahit?

1. Mention any four disadvantages of online learning.

epfo; epiy fw;wypd; VNjDk; ehd;F jPikfisf; Fwpg;gpLf.

1. Define e-learning.

kpd; fw;wiy tiuaW.

1. How do you use cooperative learning strategy in your classroom?

$l;LwTf; fw;wy; El;gj;ij cd;Dila tFg;giwapy; vt;thhW gad;gLj;Jtha;?

1. Bring out the assumptions regarding teaching models.

fw;gpj;jy; khjpupfs; gw;wpa mDkhdq;fis ntspf;nfhzHf.

1. How modules help in Mathematics learning?

fzpjf; fw;wypy; njhFjpfs; vt;thW cjTfpd;wd?

1. Explain the application of concept attainment model in Mathematics learning.

fUj;J milT khjpupapd; fzpj fw;gpj;jYf;fhd gad;ghl;ilj; tpsf;Ff.

1. Write on Computer Assisted Instruction.

fzpdp topahf fw;wy; gw;wp vOJf.

1. How do you use digital resources in Mathematics teaching?

fzpjk; fw;gpj;jypy; b[pl;ly; tsq;fis vt;thW gad;gLj;Jtha;?

1. Write on M-learning.

M; fw;wy; gw;wp vOJf.

1. Evaluate the importance of professional development for Mathematics teacher.

fzpj Mrpupaupd; njhopy; Kiw tsu;r;rpapd; Kf;fpaj;Jtj;ij kjpg;gha;T nra;f.

1. Specify the benefits of in service education of teachers.

Mrpupau;fSf;fhd gzpapilf; fy;tpapd; ed;ikfisf; Fwpg;gpLf.

**SECTION C (4 x 5 = 20 marks)**

**Answer any FOUR questions in about 200 words each.**

1. How do you create blog? Mention its advantages.

tiyg;gjpit vt;thW cUthf;Ftha;? mjd; ed;ikfis f;Fwpg;gpLf.

1. Describe web-based instruction.

,iza mbg;gilapyhd fw;gpj;jiy tptupf;f.

1. Explain video conferencing and mention how it can be used in Mathematics classroom.

fhnzhyp fhl;rp fUj;juq;fk; gw;wp tpsf;fp> fzpj tFg;giw fw;gpj;jypy; mjid vt;thW gad;gLj;jyhk; vd;gij tpthp.

1. Describe the elements of Inquiry training model with an example.

Tprhuiz gapw;rp khjpupapd; $Wfis cjhuzj;Jld; tptupf;f.

1. How do you use Learning Management System in teaching and learning Mathematics?

fw;wy; Nkyhz;ik Kiwapid fzpjk; fw;gpj;jy; kw;Wk; fw;wYf;F vt;thW gad;gLj;Jtha;?

1. Discuss the role of reflective practices in professional development.

njhopy; Kiw tsu;r;rpapy; gpujpgypg;G eilKiwfspd; gq;fpidg; gw;wp tpthjpf;f.

**SECTION D (2 x 10 = 20 marks)**

**Answer BOTH the questions in about 500 words each.**

1. a) Prepare a digital lesson plan for a Mathematics topic of Standard IX.

xd;gjhk; tFg;gpy; VNjDk; xU ghlj;jiyg;gpw;F b[pl;ly; ghlj; jpl;lj;ijj; jahupf;f.

(or)

b) Describe constructivist learning strategy. Mention the role of learners and teachers in the constructivist classroom.

mwpTfl;likg;G fw;wy; cj;jpia tptupf;f. mwpTfl;likg;G tFg;giwapy; fw;gtu;fs; kw;Wk; Mrpupau;fspd; gq;fpidf;; Fwpg;gpLf.

1. a) Explain Advance Organizer Model of teaching and point out its advantages and disadvantages.

Kd;jU Jhz;lyikg;G fw;gpj;jy; khjpupia tpsf;fp, mjd; ed;ikfs; kw;Wk; jPikfis gl;baypLf.

(or)

b) Critically analyse the special qualities of a Mathematics teacher.

xU fzpj Mrpupaupd; rpwg;G Fzq;fis tpku;rd uPjpahf gFg;gha;T nra;f.